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## **A web-based, database bound, WYSIWYG development environment for web applications**

David Blane DeLong

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A WEB-BASED, DATABASE BOUND, WYSIWYG DEVELOPMENT  
ENVIRONMENT FOR WEB APPLICATIONS

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A Project  
Presented to the  
Faculty of  
California State University,  
San Bernardino,  
Computer Science Department

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In Partial Fulfillment  
of the Requirements for the Degree  
Master of Science  
in  
Computer Science

---

By  
David DeLong  
September 2004

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September 2004

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6/15/04  
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Dr. Richard J. Botting

  
\_\_\_\_\_  
Dr. Tong Lai Yu

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## ABSTRACT

The name of this project is called WebAppDesigner. It combines a WYSIWYG web page designer, database table designer, query tool, and an automatic deployment process into a single easy to use solution for small businesses and individuals.

The web page designer allows a user to see what a page looks like as it is being developed. A toolbox exists from which controls can be chosen and be placed on a page. Each control has properties that can be changed, altering the appearance of the page. There are also properties used to bind database tables and fields. Controls and properties are stored in a database allowing for easy additions to the control toolbox.

New tables, columns, and data can be added through the use of the table designer. These tables and columns are subsequently bound to a web page. Additional data is also added through the use of the final product by an end-user. A query tool is provided to extract information in different ways..

Deployment is taken care of automatically by the software. Once a web page is saved, it is immediately available to the public. A URL is provided that is copied

and pasted to some other external web page which links to the WebAppDesigner web application.

## ACKNOWLEDGEMENTS

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## CHAPTER ONE

### SOFTWARE REQUIREMENTS SPECIFICATION

#### 1.1 Introduction

The rapid growth in the demand for online web application design is driven by the need to improve the productivity and cost effectiveness for individuals and small businesses that do not have the expertise or resources to take the traditional development and deployment route. In 1999, 35% of large businesses and 7.5 percent of small businesses were engaged in e-commerce. At the end of 2002 over 80% of large businesses and 70% of small businesses were engaged in e-commerce [1]. These studies have also shown there is a general reluctance for small businesses to engage in online business due to the cost and complexity of implementation. Low cost, ease of use, and functionality, are drivers that attract small businesses and individuals to web application design [2]. Key components are web page design, database integration, and deployment.

Several companies exist that offer online web application design. Three leading providers along with a



Master's Project by Younik Lee [5] were surveyed for the key components. No solution offered all three completely.

My project integrates all three of these aspects into a single turnkey solution for small business. These include a full-featured WYSIWYG web page designer, a database development tool, and an automatic deployment process. WYSIWYG stands for "what you see is what you get".

WebAppDesigns is e a website that creates these web applications. MySQL is used as the backend DBMS. DBMS stands for "database management system". A master database contains login information for the designer of each application. Also stored in the master database are database connection strings for each application, and a template for new user databases.

Each application has a separate database. After logging into the designer, a database connection is retrieved from the master database that points to the appropriate database for the application. This approach affords the possibility of being able to scale the project across different servers and database packages.

Deploying the project is handled automatically, and is of a trivial nature. A PHP page is responsible for rendering the web page, and client-side scripts that make

the application behave properly. PHP stands for hypertext preprocessor and is a sever-side scripting language for webpages. As users go from one web page of the application to another, the page posts back to itself with new information such as page id. There are no statically stored website for projects created with this designer. All information about a web page is stored in the database. When publishing an application, a URL is provided which can be copied and pasted. This URL has such information as the application and page ID.

When an end user enters the application for the first time, a connection string from the master database is retrieved which points to the user-application database. All further transactions are performed on the database contained in this connection string.

## 1.2 Purpose

This chapter is a specification for David DeLong's Master's project: A Web-Based, Database bound, WYSIWYG Development Environment for Web Applications.

### 1.3 Scope

The name of this product is known as WebAppDesigner.

WebAppDesigner is a new product and includes the following features:

- 1) It is a website that creates web applications
- 2) WYSIWYG Web page designer
- 3) Database Designer
- 4) Database bound forms and controls
- 5) Web page generation
- 6) PHP for server-side scripting
- 7) MySQL for backend database(s)
- 8) DHTML and JavaScript for client-side interface

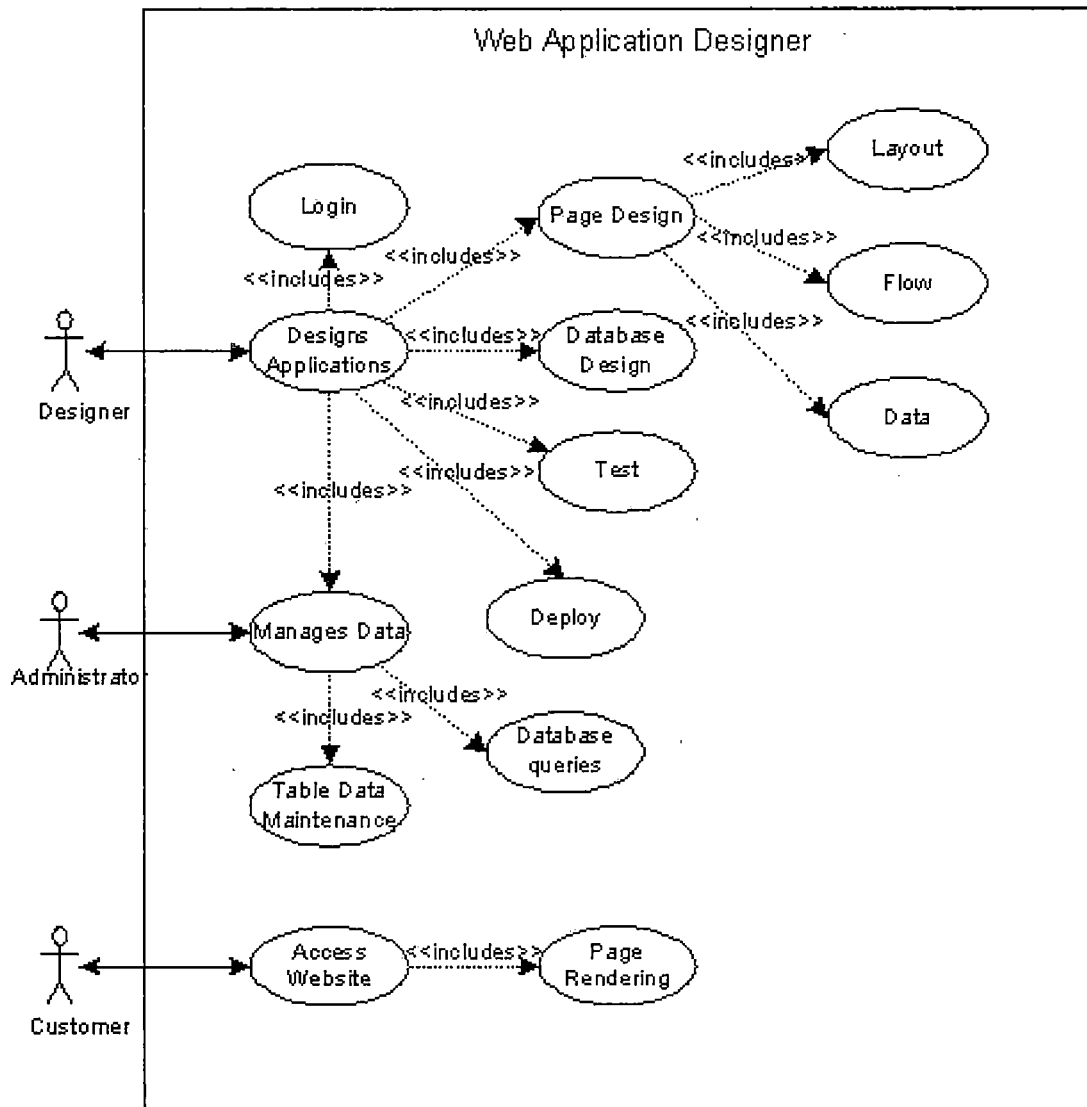


Figure 1. Use Case Diagram

#### 1.4 Overview

The remainder of this document defines the functions and specific requirements of WebAppDesigner in a format consistent with IEEE Std 830-1993 SRS format [3].

## 1.5 Definitions of Terms

The following terms are used in this project.

Table 1. Definition of Terms

Web page	A single HTML document retrieved off the internet via HTTP, usually by means of a browser.
Browser	A program used to view web pages.
Form	A special type of web pages that includes controls allowing a user to input information. This information is usually collected and sent to a database or some other location.
Control	A single web page or form object such as a text box or label.
Database	A collection of information organized in such a way that a computer program can quickly select desired pieces of data.
WYSIWYG	"What you see is what you get." A system where you design something

	according to how you see it.
Posting	Generating and placing on a website a web page.
Form/Control Properties	Properties associated with a control or form such as background color and dimensions.
Web page designer	An environment that allows you to design web pages without directly writing HTML.
Database designer	An environment that allows you to design databases without directly writing SQL.
Plug-ins	Additional pieces of software needed by a browser to make certain imbedded page elements work correctly.
Toolbox	A collection of items used to create a web page. For example, control types are contained in the toolbox.
E-commerce	Electronic commerce, also e-business, a term for all kinds of

	<p>business that are established electronically especially over the Internet. This includes both electronic sale (internet shops) and B2B transactions, i.e. business between two companies.</p>
<p>PHP</p>	<p>A recursive acronym for Hypertext Preprocessor. It is an open-source, server-side HTML embedded scripting language used to create dynamic Web pages. A dynamic Web page is a page that interacts with the user, so that each user visiting the page sees customized information.</p>
<p>ODBC</p>	<p>Open Database Connectivity. Open standard developed by Microsoft aiming to provide a consistent interface to relational databases regardless of which database engine is used (e.g. SQL Server, Oracle or MySQL). In theory to</p>

	migrate to another database should only require the installation of the appropriate ODBC driver for the new database.
--	---



## CHAPTER TWO

### REVIEW OF RELATED WORK

#### 2.1 Introduction

There are many companies already offering online web application and page development. A survey of 3 top contenders in this field was used to outline what features were already being offered and what may be lacking. In addition a survey of CARTSHARE, a CSUSB master's project by Younik Lee, was performed.

#### 2.2 Intuit QuickBase

Intuit's Quickbase offers the ability to create web applications from scratch. The design process starts off by asking for an application name and the fields you wish to use in your application. The screen looks like the following:

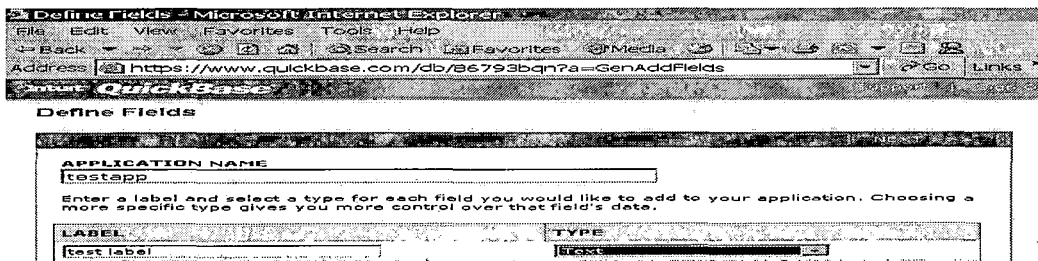


Figure 2. Quickbase Start

At the conclusion of the wizard, a user is placed in the main development environment. Here, you are given the ability to customize many aspects of the application. One of these is the look and feel. You do this by clicking on the "customize this page" button.

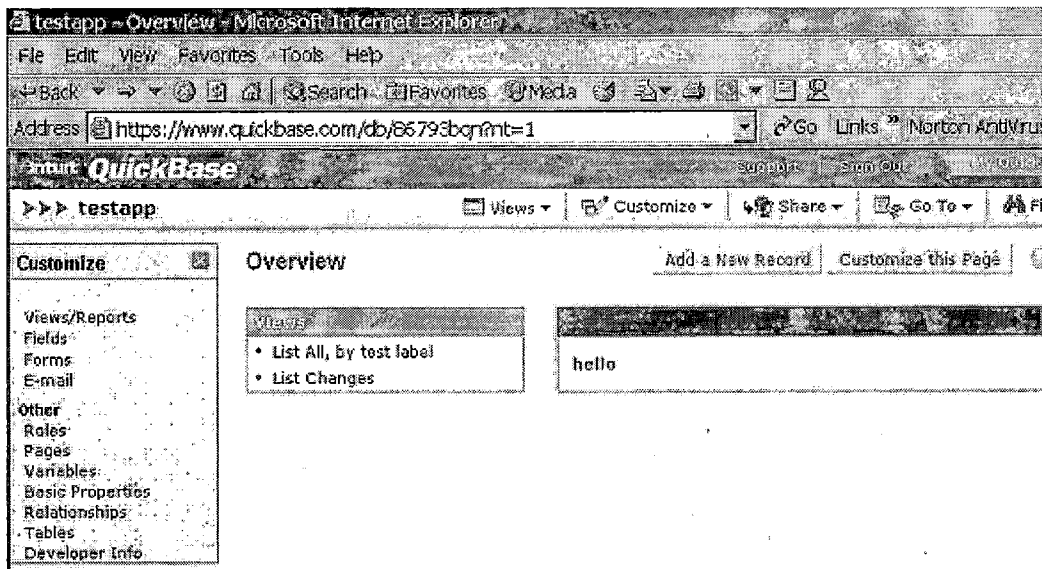


Figure 3. Quickbase Customization

You are given a few options that allow you to change the look and feel, which are then integrated into your application.

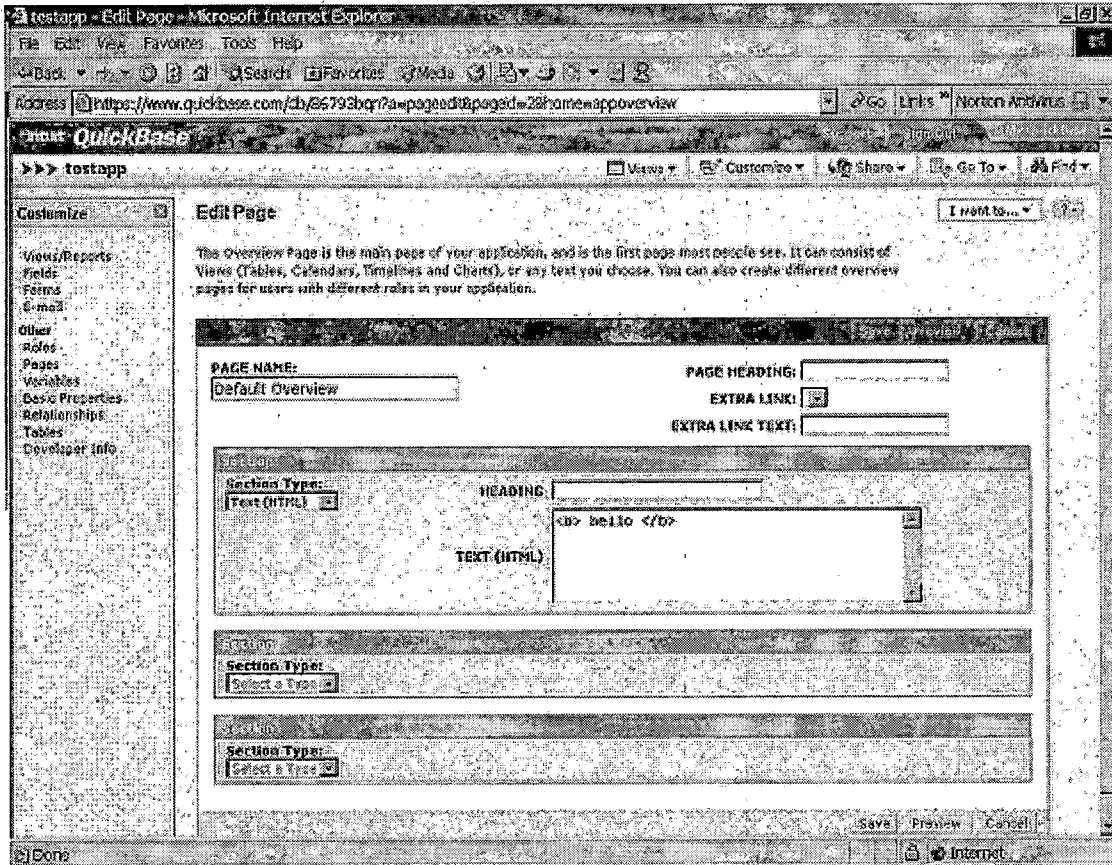


Figure 4. Quickbase Look and Feel

For example, the above addition gives the following page output:

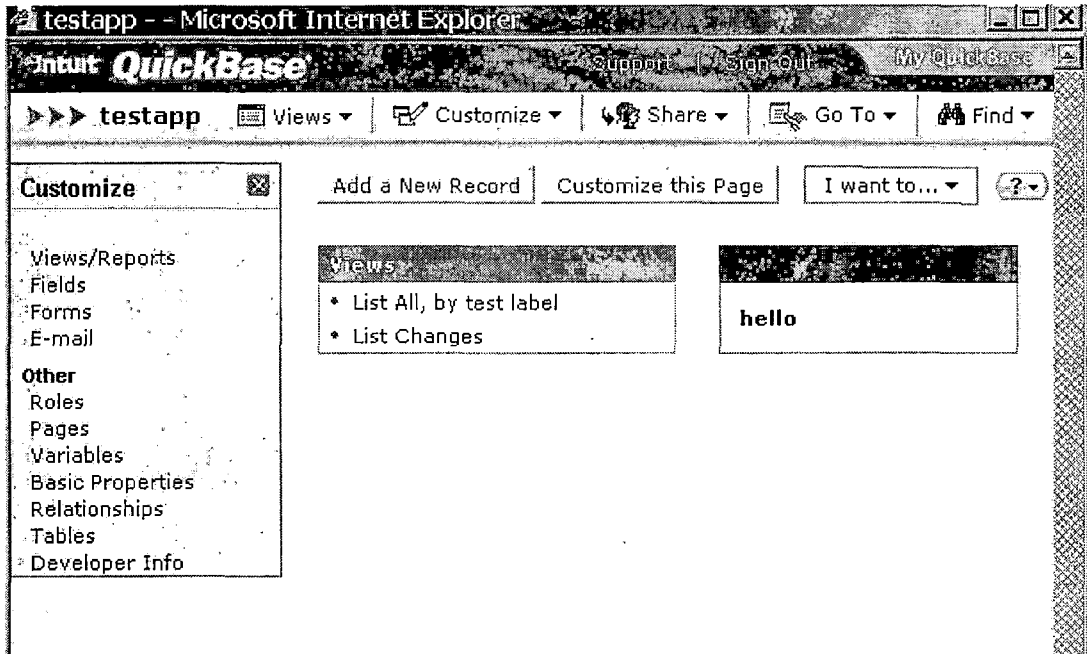


Figure 5. Quickbase Page Generation .

Most of the look and feel is still provided by the design environment, but you can change this a little bit with the options provided. [1]

### 2.3 Caspio Bridge

Caspio Bridge provides a Microsoft Access like environment for creating data-bound web forms. Once you login, you are presented the following screen:

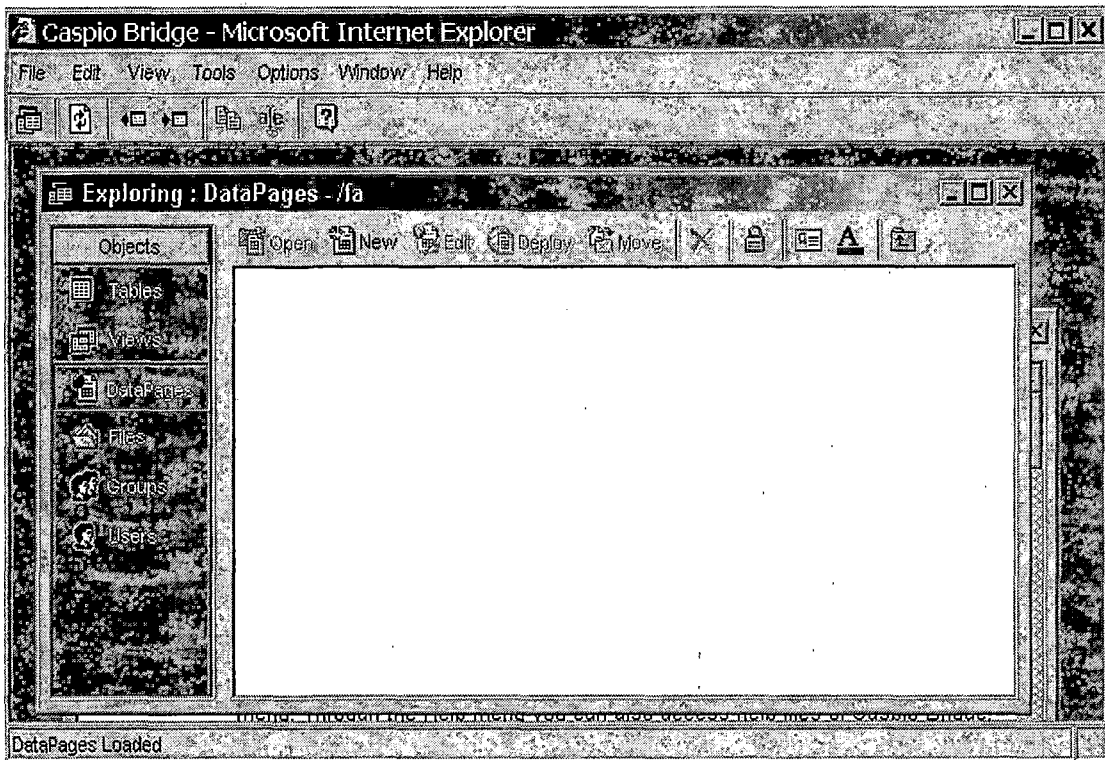


Figure 6. Caspio Bridge Designer

Like Access, you can create tables and views in much the same way. When you create a form, you are presented with a wizard where select many options such as the fields you want to use on the page. After you are done, the page is rendered. The following is a sample form created with Caspio Bridge.

The image shows a web browser window with a title bar containing the letter 'a'. The main content area contains a form with the following elements:

- Name:
- Title:
- Phone:
- Company:
- Email:
- URL:
- MailingList:
- Comments:
- SubmitDate:
- Notes:

Below the form fields is a button labeled "Submit".

Figure 7. Caspio Bridge Page Generation

Unlike Access, there is no WYSIWYG form designer. You do have several menus where you can change some properties that affect such things as color:

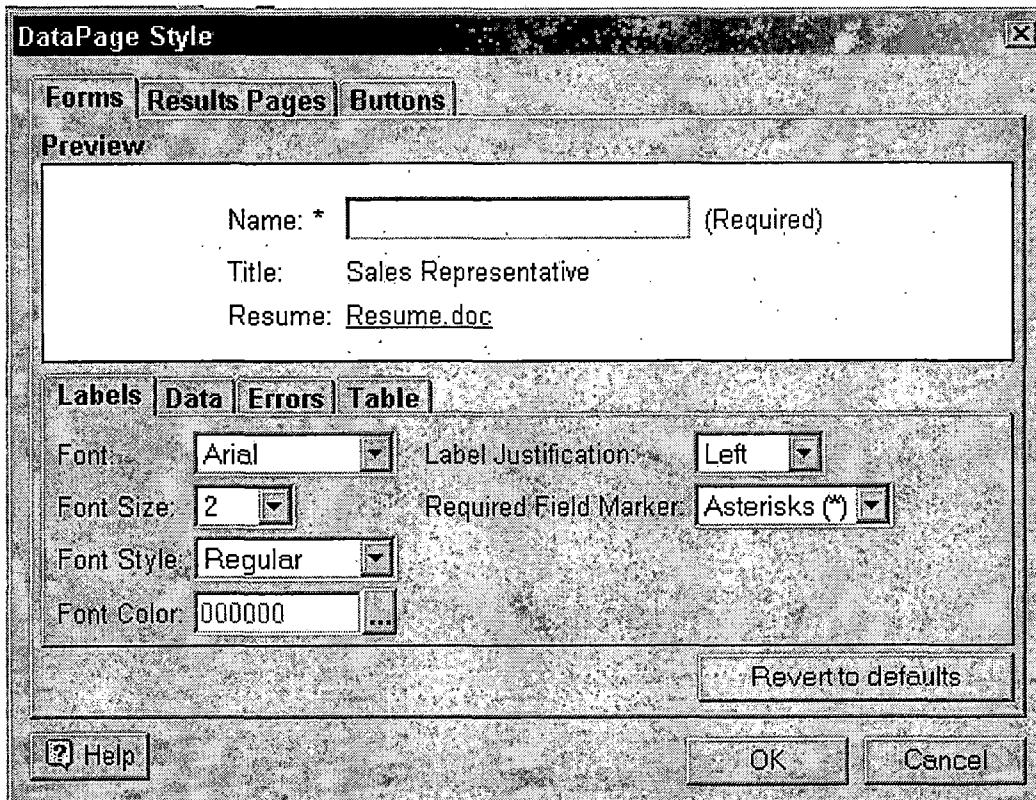


Figure 8. Caspio Bridge Control Properties

One of the items that are not offered for changing is the position of the controls.

## 2.4 Yahoo! PageBuilder

Yahoo! PageBuilder is a classic web page designer that you use online. It is WYSIWYG, allowing you see what the page looks like as you are developing it. It allows you to change properties, affecting the appearance of controls on the page. It also lets you drag and stretch items on the

screen. Yahoo! PageBuilder has no database support however. The following is a screen shot of the application.

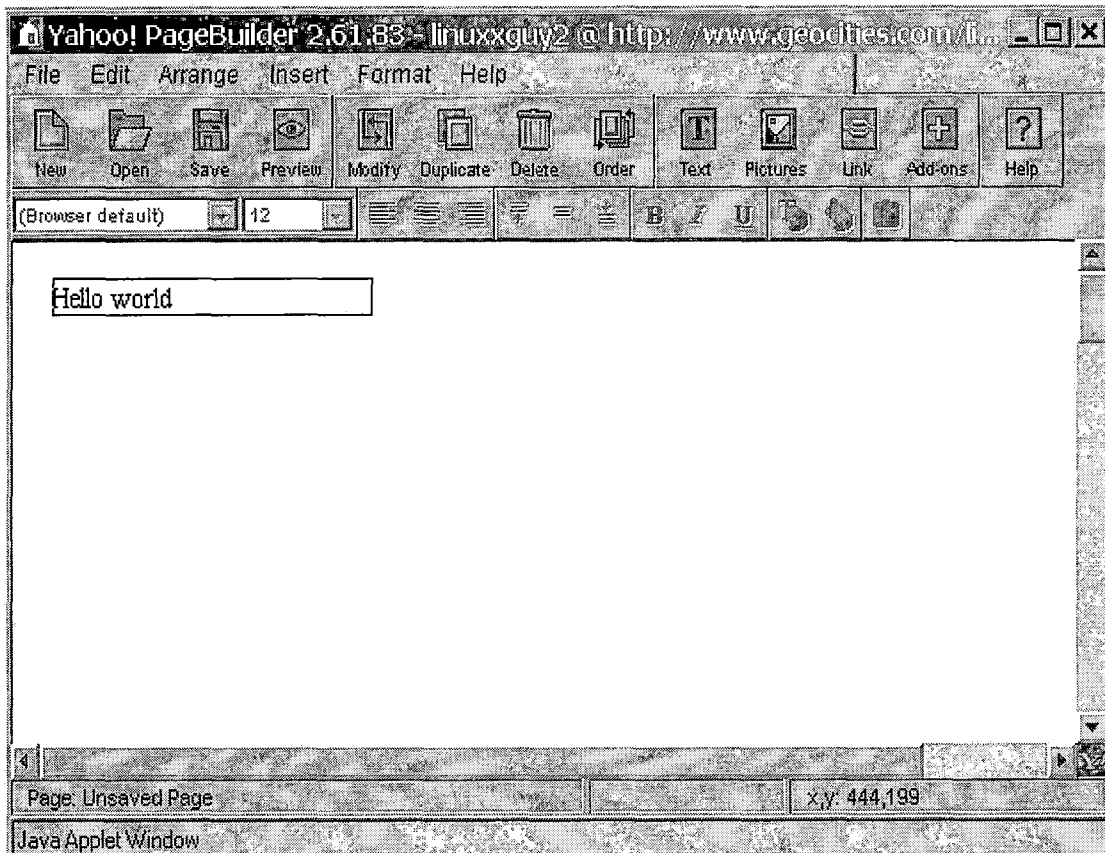


Figure 9. Yahoo PageBuilder Designer

## 2.5 CARTSHARE

CARTSHARE is a Master's Project created by Younik Lee in December 2000, for the computer science department at CSUSB. This software application is a suite of tools used for creating e-commerce web sites. It allows users to create multiple online shopping stores using a web-based



interface. CARTSHARE has a static interface but allows users to select store logos. It also allows the entry of data for a store. This data has a static schema that is designed specifically for this application.

## 2.6 Summary

A summary of the features is outlined as follows. WebAppDesigner is the only product, which addresses all three components of a fully customizable turnkey web application:

Table 2. Comparison of Web Application Designers

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Intuit QuickBase	Y	N	Y	Y
Caspio Bridge	Y	N	Y	Y
Yahoo! PageBuilder	Y	Y	N	Y
CARTSHARE	Y	N	Y	Y
WebAppDesigner	Y	Y	Y	Y

A = Simple customization (template, menu, or wizard based)

B = Full features

C = Database Integration

D = Deployment

CHAPTER THREE  
OVERALL DESCRIPTION

3.1 Product Perspective

The following sections describe the product perspective.

3.1.1 System Interfaces

Internet Explorer 6 or higher, or Netscape 6 or higher provides the interface to WebAppDesigner. No additional plugins are required.

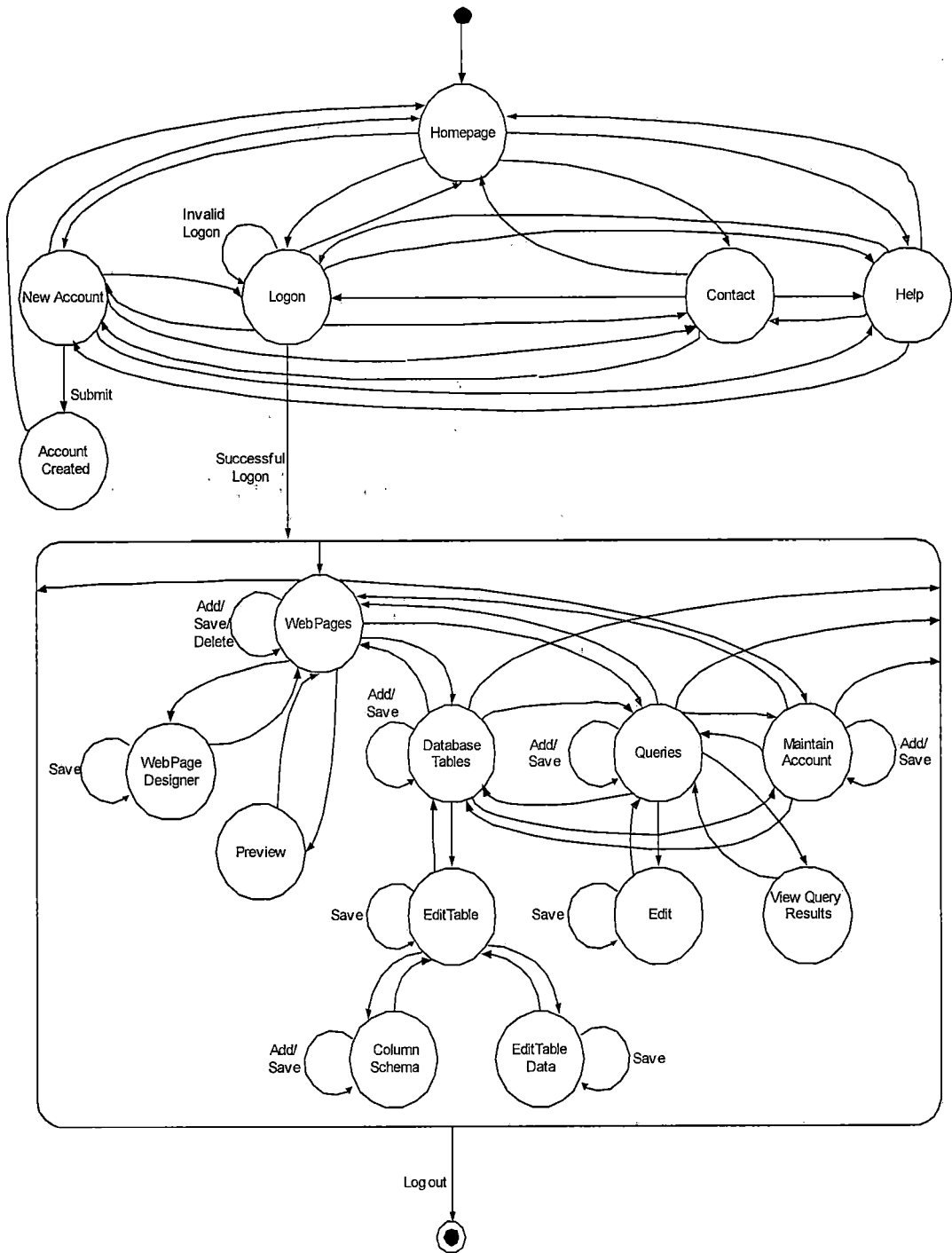


Figure 10. Session State Diagram

### 3.1.2 Web Page Creation Scenario

A hypothetical person whom we name Freda Jones wants to create a new web application. Freda begins by going to the home page and clicking on the new account menu option. Freda enters her personal information and upon successful account creation, a user database is created for her account. Freda then clicks on the logon menu option. After successfully logging in, she clicks on a forms menu option. Here she is presented with a tabular list of application web pages (which is empty to start off with). To add a new web page, she clicks the add button and enters the name of the new web page. Afterwards, she clicks the edit button next to the new page, which brings her into the web page designer. She begins with a blank web page. On the left side of the designer is a list of controls she can add to the page. On the other side there is a list of properties that are the properties of the currently selected control on the web page. The web page acts like an object as well and has its own set of top-level properties. To add a control, Freda clicks on one of the controls. She is now able to move and stretch the control. In the properties window, she can change properties. If Freda changes a property, that change is rendered on the control (if it's a

property that affects the appearance of the page). When Freda wants to save her changes, she clicks on the save button. When Freda is done designing her page, she clicks on the exit button to return to the previous menu.

### 3.1.3 Database Update Scenario

There are three important properties that link web pages to database tables. The first property is "table name". This is a webpage level property. The second property is "Field Name". This is a webpage-control level property. When Freda specifies the table name property, and she saves the form, the table is automatically created if she has not already manually created the table using the database design tool. Each control that has a field name property is added as a column in that table. In many cases, it is not necessary for Freda to need to use the database maintenance tool. In some cases, Freda may feel more comfortable laying out her database schema ahead of time, or may find it easier to design the database separately. In these situations, she goes into the database maintenance page where she is able to add tables, columns, and data to tables. There are a few instances however where she is required to go into the database tool. One example is when she needs to pre-populate a table with data. This would be

necessary if she adds combo or list boxes to her page and specifies lookup tables. The last property that is important is the "action" property on the button control. Setting the property to "add/update" instructs the post-back page to add or update the database with information received from the page. If a database record ID is passed into the page (via the query string), then an update is performed. If no ID (or ID=0) is passed into the page, then an insert is performed. A second property for the "action" property is "delete". If delete is selected and a valid ID is passed into the page, then the record is deleted. If an ID is passed into a page, and the table name and some field names are specified, the controls that have field names are populated with data from the record that matches the ID passed into the page.

There is another important control included in the web page designer that should be mentioned. This control is a grid and is helpful for generating record lists. The grid has its own table name property just like the top-level web page object. When table name is specified, a rendered page has a list of records printed in the grid for that table. Also, there are grid properties that turn links on and off for adding, editing, and deleting records.

In an example, Freda wants to create a simple inventory maintenance application. She needs to create two web pages. The first page lists the items in her inventory. To begin, she needs to place a grid on the page and specify a table name. She is required to turn on add and edit flag properties for the grid. On the second page she sets the table name for the top-level web page object to the table name of the grid in the first page. She places one text box for each column of data in her table on the second page, and sets the `FieldName` property for each of these text boxes. Finally, she places a button down and specifies "add/update" as the action, and web page #1 as the "ResponsePage". At runtime, if the "add" button is clicked on the grid, then `ID=0` is passed into web page #2, indicating that it is a new record. If the "edit" button is clicked on the grid, then the appropriate ID is passed to the second page. Controls are populated with data matching the id of record passed to the page, according to the `fieldname` property on the control.

#### 3.1.4 Navigation Scenario

There are two methods of navigation. The first is by using a "hyperlink" control. If the page in the hyperlink control is prefixed by "http://" it is considered to be a



regular hyperlink and a user will be directed to that site when clicked. If there is no "http://" prefix, it is considered to be the name of one of the pages Freda designed and the application is directed there instead.

The second method of navigation is by using a button control. There is a property called "ResponsePage", which defines the page the application returns to the user after the button action is performed. If the action is Add/Update, then the record ID is passed along as well (via query string).

#### 3.1.5 Adding Security to Web Pages

Each web page has two properties (at the web-page level), which allows Freda to secure the page. These properties are "SecurePage", and "LogonPage". "SecurePage" is a checkbox that indicates whether a check should be done to see if a user has logged into the application. A flag in the viewstate is used to indicate if a user is logged in. A viewstate is similar to a server session objects. The main difference is that data is not stored on the server with a viewstate. Instead, data is passed along with the page as user traverses the application. The purpose of doing this is to help web applications be scalable and to avoid problems such as blocked session cookies. If "SecurePage"

is flagged as true and the user has not logged in, they are directed to a page defined by "LogonPage" property. When Freda creates a logon page, she needs to add a button and set the action property to "Logon". On the button, Freda can define up to three controls she has placed on her page that will be part of the validation process. For example, if login and password text boxes are added, the field names should be entered in as validation fields on the button. Finally there are two more properties on the button that spell out where to redirect the page in the case of a successful logon, and in the case of an invalid logon. If the logon is successful, the "logged in" session flag is set to true.

### 3.2 Product Functions

The system allows a user to create a new account, which gives the ability to login to the application. Once logged in, the designer allows the user to create/modify database schema, add/modify database data, add/modify web pages, run queries, and maintain account information.

### 3.2.1 Introduction Page

This describes the program's purpose and options. This is an HTML page with links to a login page, documentation, contacts, and new accounts.

### 3.2.2 New Accounts Page

This allows a person to create a new account. First name, last name, address, login ID, and password are the required fields.

### 3.2.3 Login Page

This gives the ability to login to an existing account. A user is prompted for a Login ID and Password.

### 3.2.4 Page Creation and Selection

A user has the ability to create, modify, or delete web pages. Web pages are shown in a table where one can be selected for edit.

### 3.2.5 Web Page Designer

The designer is a WYSIWYG representation of the web page and allows for dropping, stretching, and moving of controls. The designer uses CSS style properties, which are set by an outside source. Changed properties from the designer are passed back to the calling object.

### 3.2.6 Web Page Designer Tool Bar

The tool bar frame consists of two toolbars. The top tool bar has navigation and file functionality. In the first version, this includes save and exit functionality. The second toolbar has style buttons that include italics, bold, underline, font name, font size, and foreground color.

### 3.2.7 Web Page Control Properties

A properties frame exists that displays each property name and its associated value. Each property has its own type that provides for different representations of its value. The different types are: combobox, textbox, radio, checkbox, and color.

### 3.2.8 Database Maintenance

A section exists for the adding and editing of tables and columns. Also, data can be added to tables here.

### 3.2.9 Page Generation

Once an application is finished being designed, web pages are ready to be generated. Publishing to a website is handled automatically by the application.

### 3.2.10 Queries

Webappdesigner includes a module for adding, and editing queries. These queries can be executed and the

returned record set can be viewed. The method of forming queries is Query By Example [6]. The query web page presents an html table with a column for each field in the database table. Each html table cell below the header row is a textbox where a filter can be entered for each field representing that column. Boolean operators are used to express how to combine the different filter rows.

### 3.3 User Characteristics

Users of WebAppDesigner consist mainly of small businesses and individuals with little or no web page design and programming skills. SQL knowledge is not a requirement to use the product. In the past there has been a large disparity between large and small businesses using e-commerce. Among other things, this has been attributed to technical expertise and financial cost. WebAddDesigner's goal is to address the audience of user under these conditions. As a result, the user does not need to have any database or programming skills. Basic computer skills are required to navigate the pages, and make WYSIWYG changes to forms.

### 3.4 Assumptions And Dependencies

This section describes the assumptions and dependencies of the product.

#### 3.4.1 ADA Accessibility

WebAppDesigner conforms to the standards as spelled out by the Web Accessibility Initiative (WAI) [4].

#### 3.4.2 Website

There is no physical location for websites. All pages are rendered through a web page rendering system so there is no static content. Approximately 5MB of hard drive space is needed to host the web application.

#### 3.4.3 Scalability

Since all web page content is stored in a database, it is possible to scale the application across multiple servers and implement a load-balancing scheme. The database backend has the ability to be scaled across multiple database servers as well. This is possible because each application has its own database, and each connection string to this database is stored in a master database.

## CHAPTER FOUR

### SPECIFIC REQUIREMENTS

#### 4.1 External Interfaces

The screens used in this project are outlined in section 3.3.

#### 4.2 Functions

Functionality is detailed in section 3.

#### 4.3 Performance Requirements

WebAppDesigner is geared towards small business and individuals. With this in mind, lower bandwidth considerations are a requirement. WebAppDesigner is optimized to load quickly over a 56k connection.

#### 4.4 Logical Database Requirements

Account information is stored in a MASTER database. This includes login ID, password, name, and email address. Each account has its own database. Each web page is stored in this database, along with all of the associated controls and properties. Lastly, Information about each table created by the user is stored in the user database. A user

table is a real database table. A table called "UserTable" contains the names of tables created by the application and is used to between user and system tables. The schema of the master and user databases is as follows (only the master database will contain the account table).



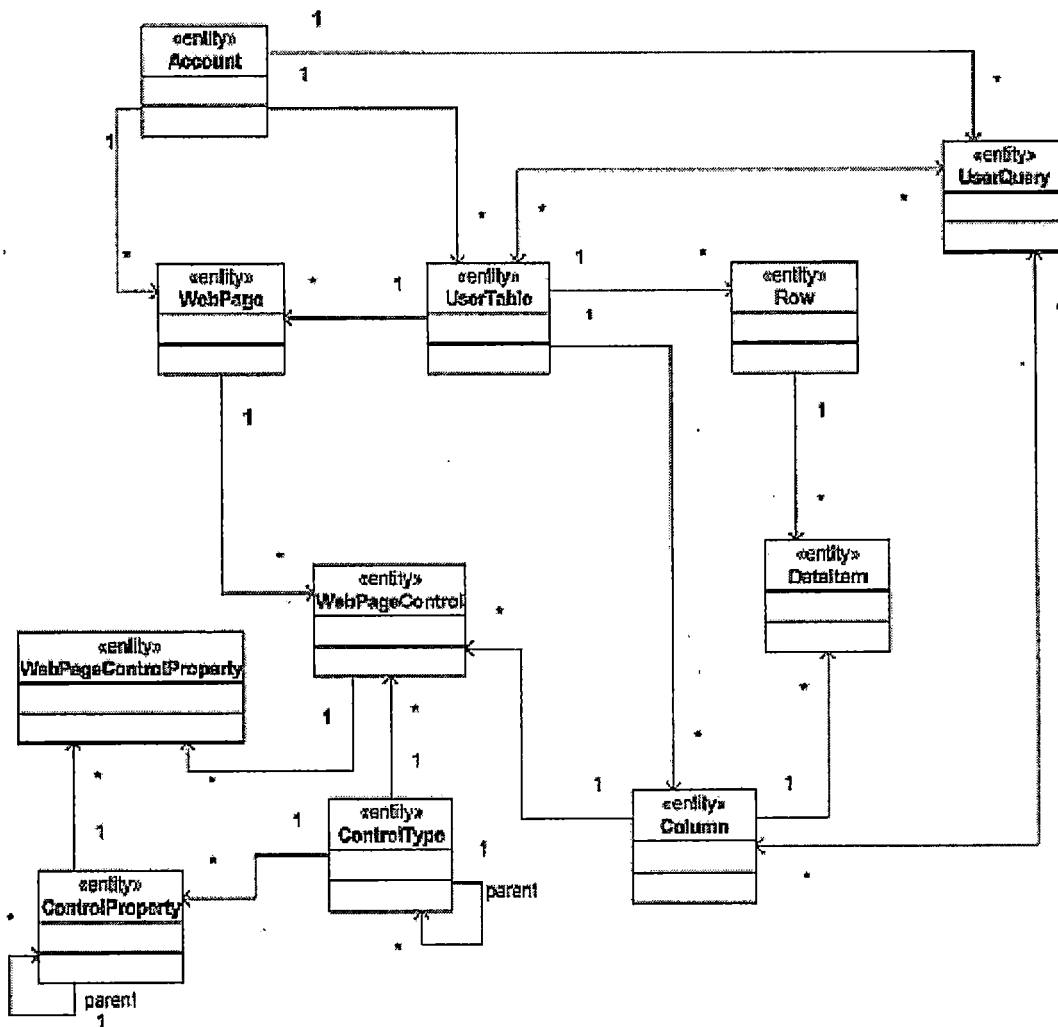


Figure 11. ER using UML

## 4.5 Design Constraints

The following sections describe the design constraints of the product.

### 4.5.1 Description

This section specifies requirements, if any, which constrain the design and implementation of WebAppDesigner.

#### 4.5.2 User Interface

The user interface complies with the standards set forth in this document, and conforms to the standards of the Web Accessibility Initiative. This product works with Internet Explorer 6 or higher, or Netscape 6 or higher.

#### 4.5.3 Operating Systems

Any operating system that can host a user interface as specified in Section 4.5.1 is supported by the application.

#### 4.5.4 Database

MySQL facilitates the server side database requirements.

#### 4.5.5 Structured Query Language

ANSI standard SQL-99 should be used where possible. This allows flexibility, expandability, and portability for anticipated changes in technology.

#### 4.5.6 Server-Side Language

PHP is implemented as the server-side programming language. PHP is used for all aspects including the designer and user web page rendering system.

### 4.6 Software System Attributes

This section describes the software system attributes.

#### 4.6.1 Reliability

WebAppDesigner operates on the stated platforms in section 4.

#### 4.6.2 Availability

The application, documentation, and source code are available according to the requirements and requests as outlined by CSUSB for the Computer Science MS Degree.

#### 4.6.3 Security

WebAppDesigner will have two forms of security. One security measure is a logon process for web application designers. A user enters a login ID and password in order to make changes to the application. The second form of security is for public internet users using the application. It is the web application designer's responsibility to implement this second security. Each web page has properties to support this feature if desired. When a designer or end-user logs out, the session terminates and cannot be restarted without first logging in again. Further security is at the discretion of network administrator hosting the product, and is outside the scope of the application.

#### 4.6.4 Maintainability

Function and variable names are self-descriptive or self-documenting as to intended purpose. This allows for maximum maintenance efficiency, and low documentation requirements. A maintenance manual is provided as one of the deliverables.

#### 4.6.5 Portability

Section 4.1.4 describes the scope in which this product is cross-platform compatible.

### 4.7 Specific Requirements

#### 4.7.1 System Mode

The system mode is client-server, stateless, and running.

#### 4.7.2 User Class

There are no operational classes. WebAppDesigner will function the same way for everyone.

### 4.7.3 Classes

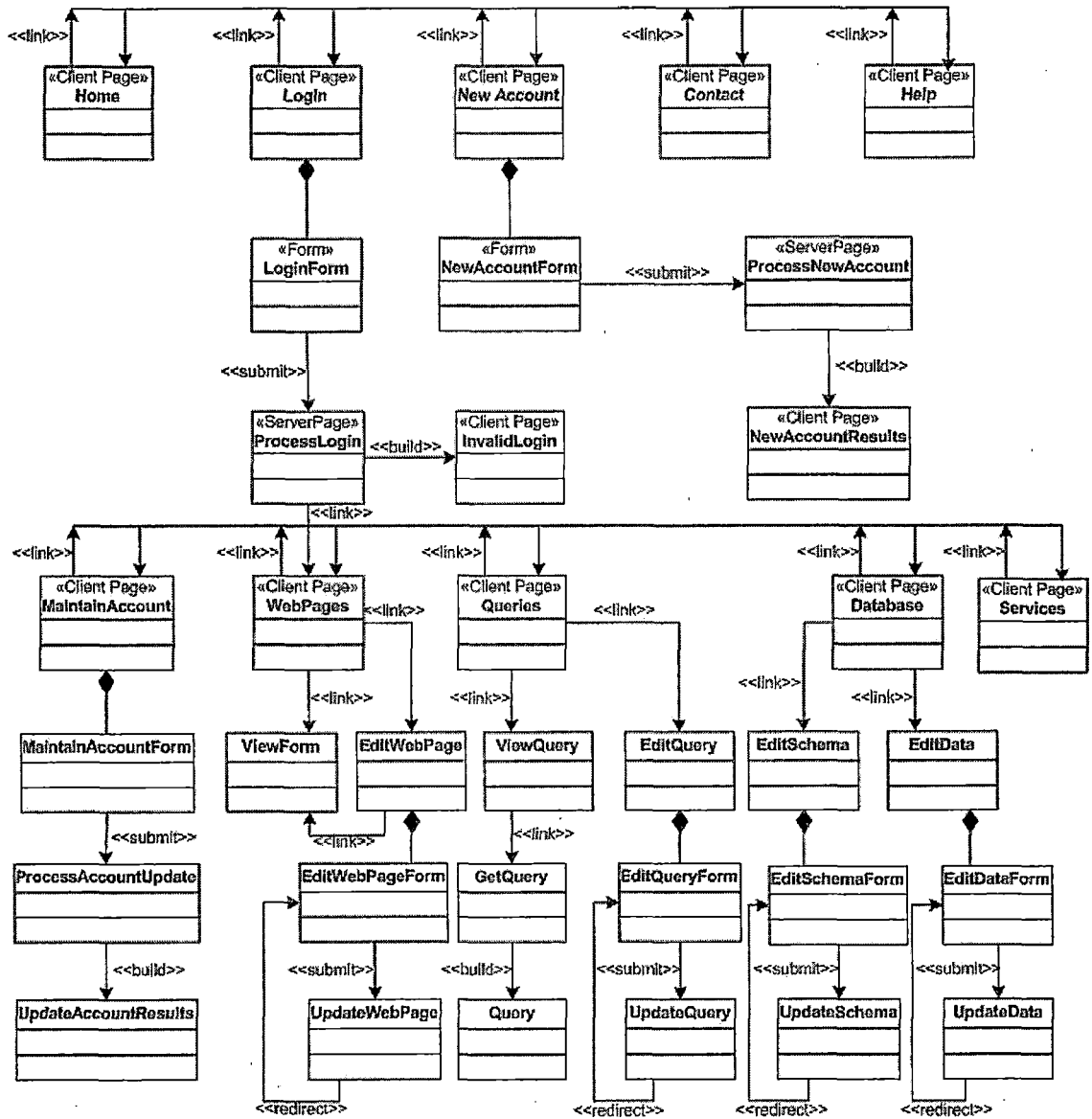


Figure 12. UML Object Diagram

### 4.7.4 Features

There are no additional features.

#### 4.7.5 Stimulus

All external stimuli are defined in section 4.

#### 4.7.6 Response

Responses to user input are detailed in section 4.

#### 4.7.7 Functional Hierarchy

Section 4.2 notes that all user interface items that would generate an error are disabled. Note that multiple sessions may be instantiated at the same time, but no more than one of a particular session may be instantiated.

## CHAPTER FIVE

### SOFTWARE QUALITY ASSURANCE

#### 5.1 Introduction

Software quality assurance helps to reduce risks and is an important part of the development and maintenance of software. It is important to formulate a plan before testing is started. This includes documentation of standards, test plans, test scenarios, test cases, and test results. Once testing commences, results are tracked and written down.

#### 5.2 Unit Test Plans

A unit test plan is a document that describes a plan for testing an individual unit of a software application. It is the first stage of the testing process. Unit test plans were created for each page of WebAppDesigner and each functional unit within a page.

Pages of WebAppDesigner were tested to ensure each button, link, and option responded correctly when activated. In cases involving database interaction, data integrity tests were performed on each insert, update, and delete operation. The toolbox in form designer was tested

to see if controls were added correctly, and each property was tested for proper rendering. Finally, testing was done on the created application to guarantee the final product matched the look and feel and intended functionality of what was designed.

Testing results are located in Appendix A.



## CHAPTER SIX

### MAINTENANCE MANUAL

#### 6.1 System Installation

The following sections describe the system installation required for the product.

##### 6.1.1 Operating System

An operating system that supports MySQL is required. Microsoft Windows 2000 Professional was used in this project. Redhat Linux can also be used.

##### 6.1.2 Web Server

A web server is required that supports PHP and MyODBC. Microsoft's Internet Information Server was used for this project and can be installed from the windows installation CD. Apache web server can also be used.

##### 6.1.3 MySQL Database Server

MySQL Database Server is required for this project. You can download the appropriate package at <http://www.mysql.com/downloads/index.html>.

##### 6.1.4 MyODBC Driver Installation

ODBC is used to allow for maximum flexibility. The MyODBC database driver was the chosen driver and can

downloaded from <http://www.mysql.com/downloads/api-myodbc.html>.

### 6.1.5 PHP Installation

Most current releases of Linux already have PHP installed. However if it isn't or you are using a windows based operating system, then you can download the PHP preprocessor from <http://www.php.net/downloads.php>. Use the default options during installation.

## 6.2 WebAppDesigner Configuration

This section describes the configuration for WebAppDesigner.

### 6.2.1 Master Database

A master database should exist name Designer\_Master in MySQL. This database should have the following tables:

Account

Control Property

ControlType

UserTable

### 6.2.2 Appconfig.php

This is the configuration and sharable functionality file for WebAppDesigner. It has several properties, which should be configured.

6.2.2.1 Application Name. The variable \$appname should be set to the name of the application. The default value is "WebAppDesigner".

6.2.2.2 Database Package of Master Database. The variable \$DB\_PACKAGE should be set to the type of master database. Possible values are "ACCESS", "MYSQL", "ORACLE", and "MSSQL". Also, this should be set in the account table for the master account entry. When a new account is created, the master database record is copied to the new user account, with user-specific values filled in.

6.2.2.3 Master Database Connect String. The variable \$MasterConnectionString should be set to connect string for the master database, for the appropriate type (described in section 6.2.2.2).

## 6.3 Form Controls

Form controls are defined in the ControlType table located in the user database. The ParentNodeID defines the parent-child relationship of the controls and determine how they are displayed on the toolbox on the left hand side of the form edit screen. ImageURL is used to define the location of an image that will be displayed next to the name of the control in the toolbox.

## 6.4 Form Control Properties

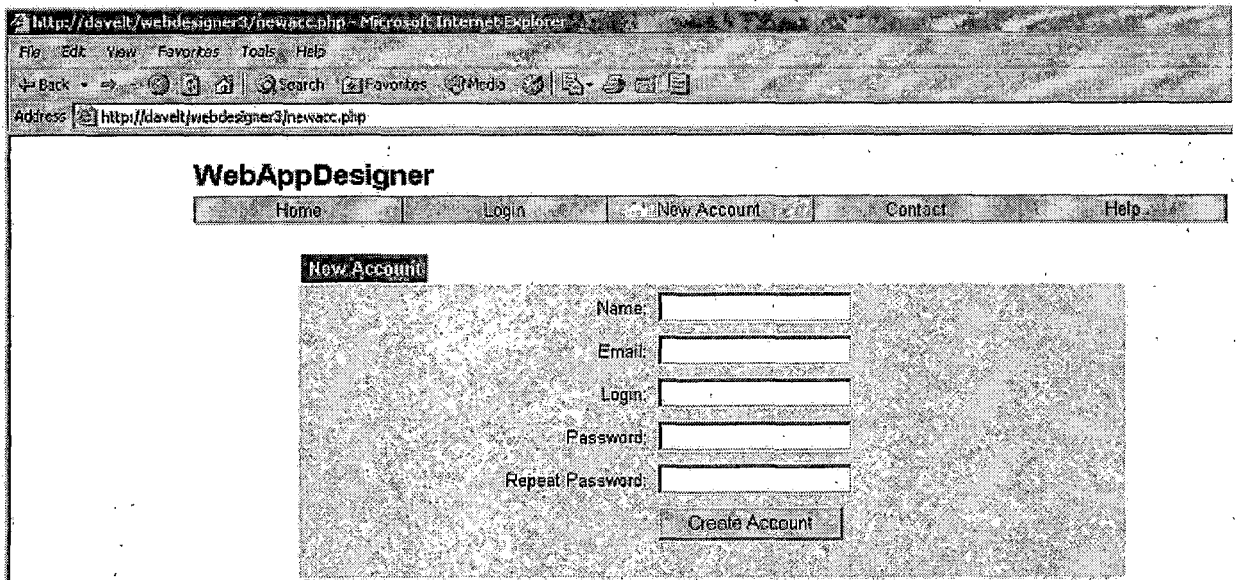
Each control has properties and these properties are stored in the ControlProperty table located in the user database. The control property table defines how the properties will be displayed in the property window of the designer by using the ParentNodeID column. This column defines the parent-child relationship of the properties. CssProp indicates whether the property is a css property and should be entered into the style sheet when the page is rendered. If this values is 0, then the property must be handled in the page-rendering engine programmatically. The type column indicates what kind of property it is and affects what type of control is used for the property. For example, "textbox" displays a textbox in the property window for that property. "Color" shows a color palette from which a color can be selected.

## CHAPTER SEVEN

### USER MANUAL

#### 7.1 Creating a New Account

Click on "New Account" from the home page. Enter name, email address, a unique login, and password. If the login is already used, you are asked to choose another. If the password is less than 4 characters then you are asked to choose a longer password. After acceptable account information has been entered and "Create Account" is clicked, a new database and account are created.



The screenshot shows a web browser window with the address bar displaying `http://daveit/webdesigner3/newacc.php`. The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The address bar also shows navigation buttons for Back, Forward, Home, Search, Favorites, and Media. The main content area displays the "WebAppDesigner" logo and a navigation menu with links for Home, Login, New Account, Contact, and Help. The "New Account" link is highlighted. Below the navigation menu is a form titled "New Account" with the following fields and a button:

- Name:
- Email:
- Login:
- Password:
- Repeat Password:
- Create Account:

Figure 13. New Account

## 7.2 Logging In

Click "Login" from the homepage. Enter a login and password. After you click submit and the login credentials have been accepted, you are logged in and placed on the forms web page. Login information is stored in the account table located in the master database.

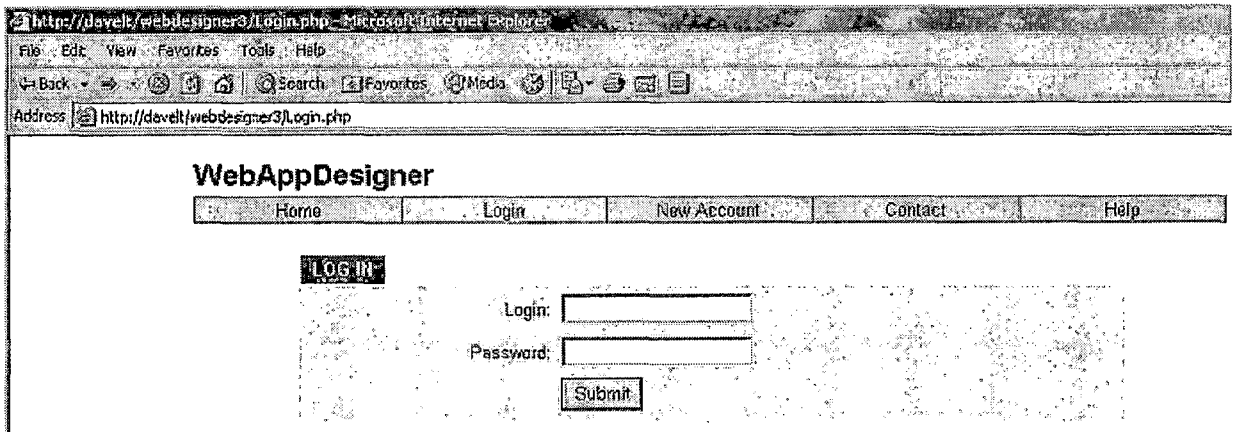


Figure 14. Login

## 7.3 Forms

The forms web page has a list of web forms that have been created. To add a new one, click "Add" at the bottom of the page. The name of the page may be changed at any time. Click "Save" if any changes are made. A page can be viewed, edited, or deleted as well here. If you click view, the page is be rendered as an internet user would see it

visiting the website. Under each form entry is a URL that should be copied and pasted in whatever page that links to the page. To edit a form, click edit to enter the form edit screen. Forms are stored in the WebPages table located in the user database (the one created for the user when the account was created).

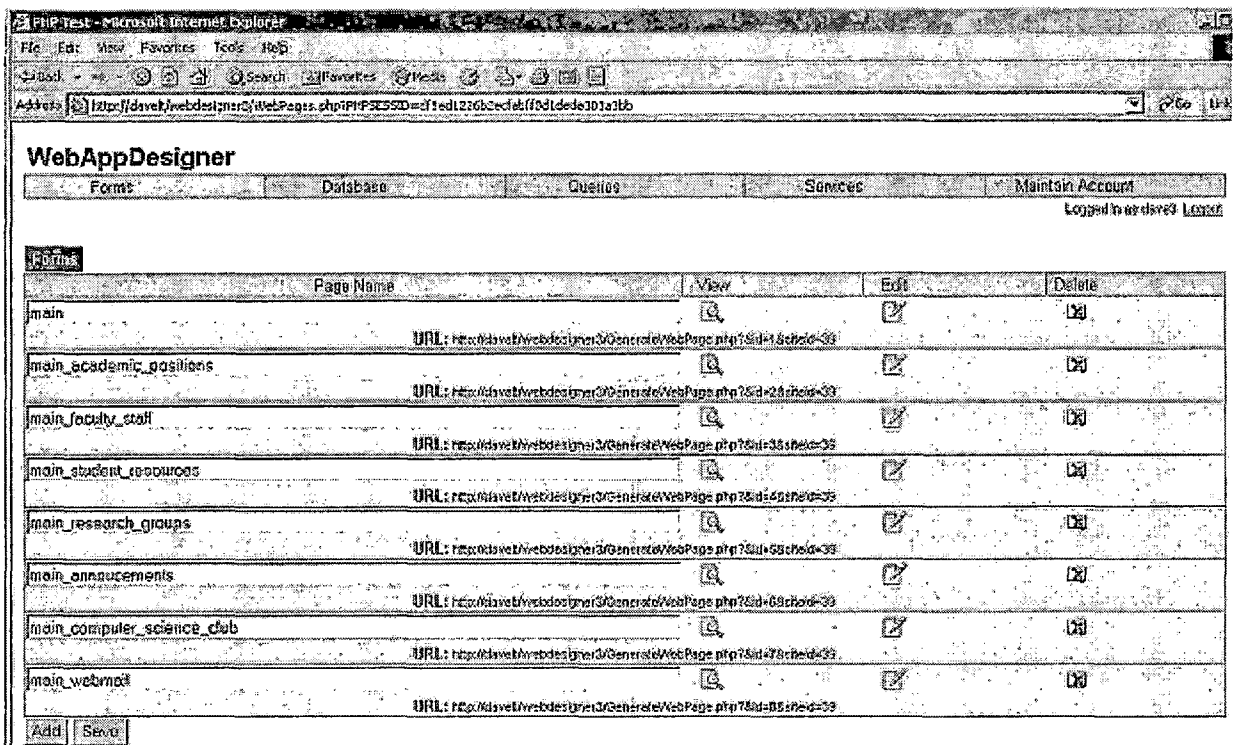


Figure 15. Forms

### 7.3.1 Form View

If you click view, then you can see the rendered web page.

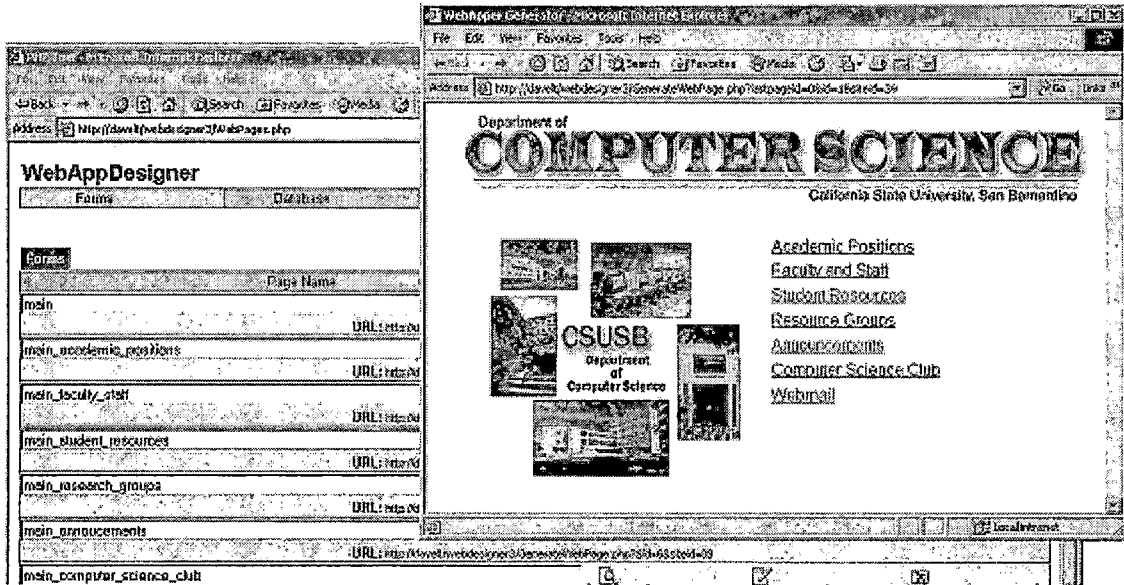


Figure 16. View Form



### 7.3.2 Form Edit

Clicking edit brings you to a designer for the web form.

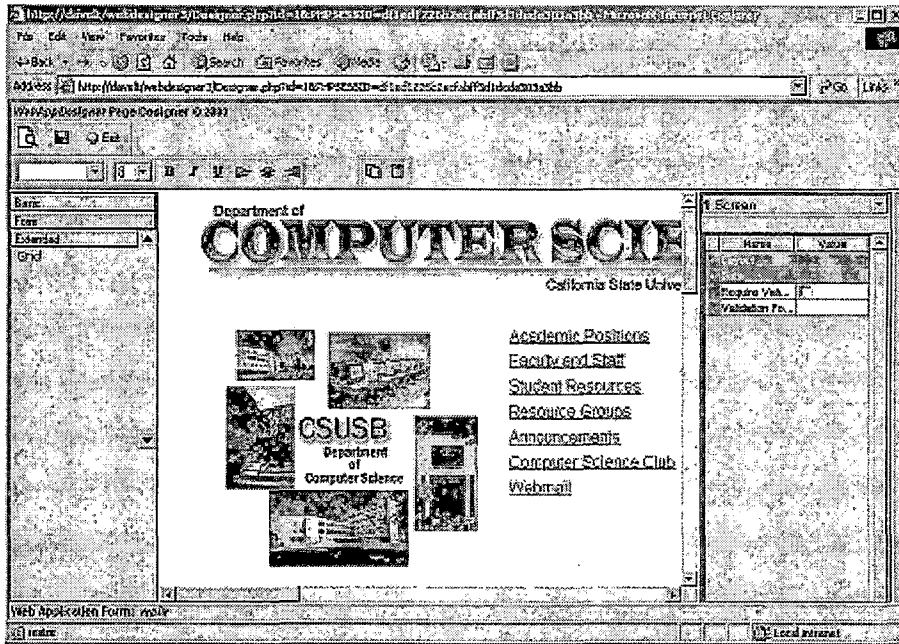


Figure 17. Designer

7.3.2.1 Designer Toolbox. The designer toolbox is located to the left on the designer. It contains all the controls you can place on the web form.

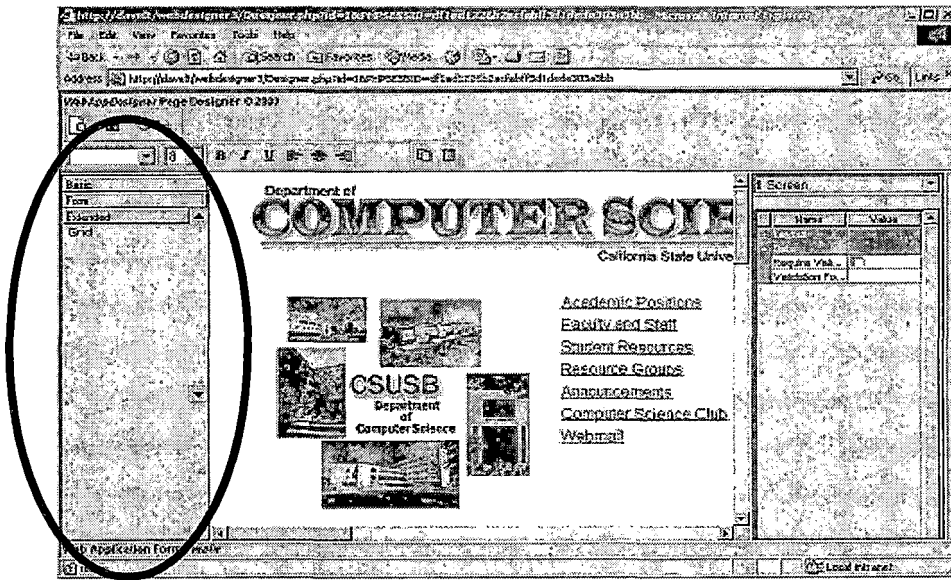


Figure 18. Designer Toolbox

7.3.2.1 Designer Toolbar. The designer toolbar is located to the top on the designer. It contains icons for the most used properties and operations.

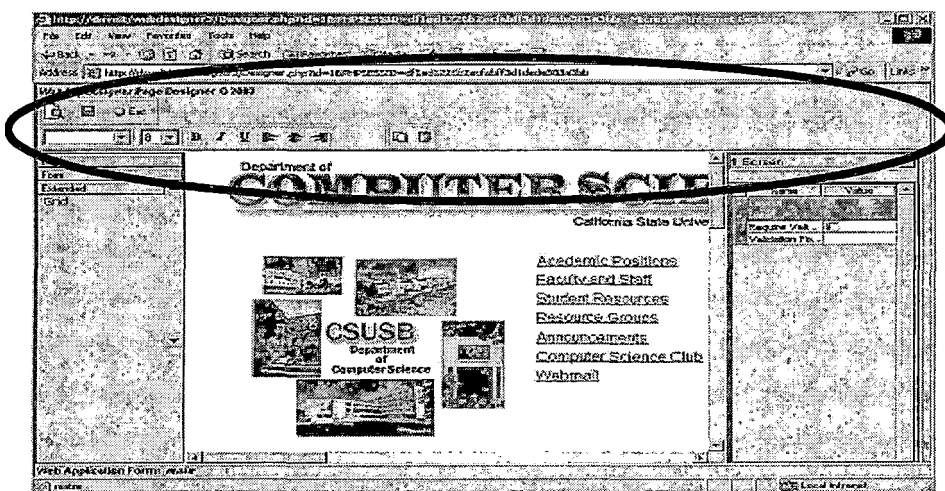


Figure 19. Designer Toolbar

7.3.2.2 Designer Control Dropdown. The designer control dropdown is located to the right on the designer, and above the control property editor. This dropdown contains all the controls on the form including screen itself. If you select one of these then that control is highlighted on the designer.

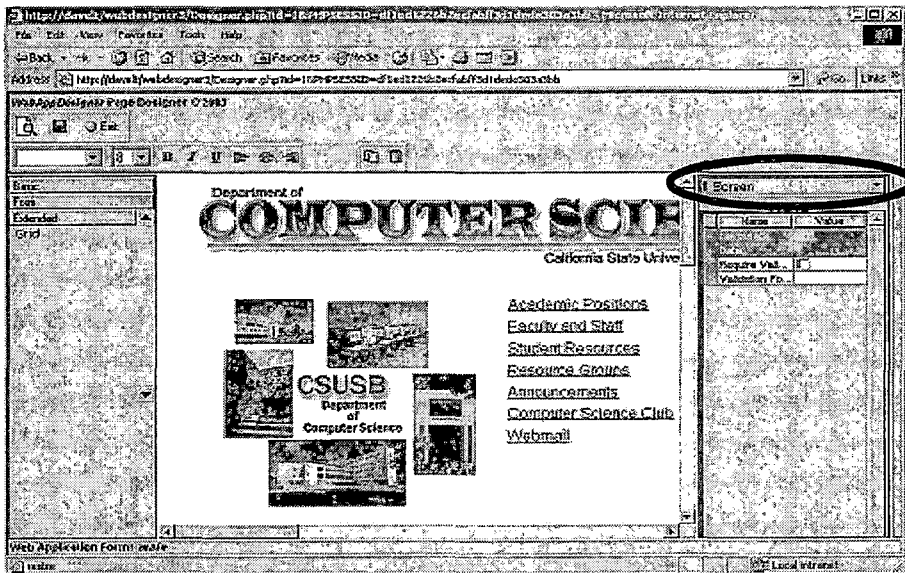


Figure 20. Designer Control Dropdown

7.3.2.3 Designer Control Properties Editor. The designer control properties editor is located to the right in the designer. The properties affect the currently selected control in the main design area. To change the

properties of the main document (screen), click any area on the designer that is not on one of the child controls.

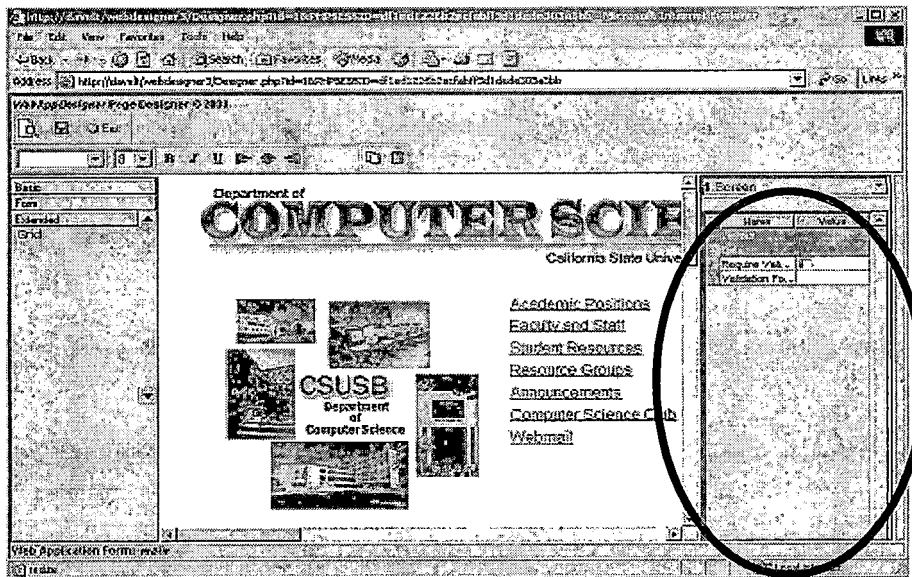


Figure 21. Designer Control Properties

7.3.2.4 Designer. The main designer is located in the center of the page. When a new control is clicked in the toolbox, it is placed in the upper-left hand corner of the design area. You can move the controls around by click on it with the mouse and dragging it. You can resize the control by moving the mouse over the right or bottom edge until the mouse cursor changes and dragging.

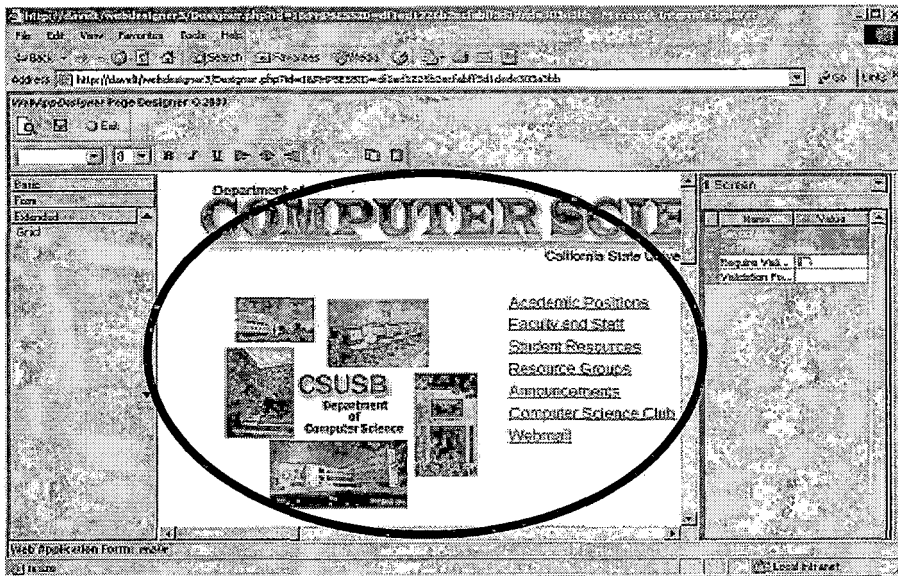


Figure 22. Designer Work Area

## 7.4 Database

WebAppDesigner comes with an interface for creating and modifying tables used in the application. To get to this interface, click "Database" at the top once you are logged on. On the database page, you are presented with a list of tables. Click "Add" to add a new table. Once the table has been created, click the "Edit Schema" button to add or change columns.

### 7.4.1 Database Edit Schema

On the edit schema page, you may add columns or change the type or length of existing ones.

### 7.4.2 Database Edit Data

On the database page or edit schema page you may click "Edit Data" to add or modify data for that table. On the edit data page, click "Add" to add new rows and click "Save" to save the data in those rows.

## 7.5 Queries

You may create canned queries in the queries section of the application. Click "Queries" at the top once you are logged in to get there. Click "Add" to add a query, give it a name, and click save to save that information.

## 7.6 Query Edit

Click edit to edit the parameters of a query. On the edit query page, you are presented a "Query By Example" interface. At the top, select the table you want to query. Once a table is selected, columns for that table appear in the lower section. Click each checkbox above the column name for each column that should be displayed in the query. In each text box below the column name, enter a filter if desired for that column. To add additional filters, click "Add". On the left hand side of each additional filter you

should select how those filters relate (i.e. "AND" or "OR").

## 7.7 Services

Click "Services" once logged in to get to this page. There are no services included in the initial release of WebAppDesigner, but the page is included for future enhancements.

## 7.8 Account Maintenance

Click "Maintain Account" once logged in to get to his page. You may change your account information here. Click "Save" when finished.

## CHAPTER EIGHT

### CONCLUSION

WebAppDesigner combines a WYSIWYG web page designer, database designer, and deployment services into a single online application. The web page designer allows a user to see what a page looks like as they are developing it. New tables and columns can be added through the use of the database designer. These tables and columns are subsequently bound to forms. Deployment is taken care of automatically by the software. Once a user saves a change to a form, it is immediately available on the website. During the course of this project, several observations were made which affected the final design of the project. One of the biggest issues was slowness caused by JavaScript. The WYSIWYG designer was originally created using JavaScript to control the moving, stretching, and rendering of controls during design time. After about 10 controls, the designer begins to slow down resulting in a negative user experience. The same issue occurred in the properties window. JavaScript could not handle more than about 15 properties on each control without slowing down.



This issue was resolved by converting these two pieces into Java applets that are multi-threaded and much faster. A negative side of converting the designer section to a Java applet was the amount of effort needed to have it render its design-time view of the form in the same way it is rendered in a browser. Most commercial databases make use of a database transaction model which is used to enforce data integrity. Transactional data integrity is implemented by making a group of database operations atomic. That is, either all or no operations are committed. Operations that have completed within a failed transaction must be undone. Also consistency, isolation, and durability are properties of a transaction environment. Prior to version 4.0, MySQL did not have a transaction model that would have been helpful when this project began. The latest version does have one that can only be implemented through the use of InnoDB and BerkeleyDB table types. All other table types must have transactions implemented at the application level [12]. In addition to the limitations first posed by the lack of a transactional model, MySQL was found to have a history of flaws related to denial of service attacks and security circumvention with versions 4.0.5a and prior [13]. If MySQL is used, WebAppDesigner should be run using the

latest version which will include fixes for these security problems. The latest production version as of this writing is 4.0.2. Even with the latest version, some security problems remain. For example, the algorithm for encryption is not as strong as it should be and gives the opportunity for a hacker to sniff client-server traffic and crack passwords. Starting with version 4.1.1 (which is not in production yet), this should be fixed. A network administrator can also take measures to make MySQL more secure. First, an SSH tunnel can be used when client-server authentication passes through an untrusted network. Second, since all other data is sent as clear text and can be viewed by someone watching the network, it is desirable to make this data hard to read. This can be accomplished by using the compressed protocol, which will make the data being passed unreadable to the casual observer. This can be combined with SSH for additional security. Starting with version 4.0, there is also internal support for OpenSSL. Network administrators should ensure all database users use passwords. Also, MySQL should not be run on the root account. This prevents users with FILE privilege from creating files as the root account. Other safeguards include disallowing symlinks to tables, making sure the

user that mysqld runs as is the only user who can read and write in the database directories, disallowing PROCESS, SUPER, and FILE privileges to non-administrative users, using IP addresses instead of hostnames if you do not trust your DNS, being careful with hostnames in the grant table that have wildcards, and possibly restricting the number of connections to a single account [14].

Many future enhancements are recommended. The first item that needs to be looked at is security. WebAppDesigner should be further reviewed to ensure page security cannot be circumvented. Performance can be improved if the application is rendered into static web pages instead of being dynamically generated, which is how it is being done now. To further enhance the ability of the application, more controls and control properties should be added and handled in the page generation engine. Also, adding a wizard for page creation will help those users who are not used to design or development environments. Lastly, it is recommended that features be added giving the application the ability to interface with other products or services. A services page has already been created as a holding spot for these. An example of one of these features would be the ability to download data from the user tables in the form

of comma separated values or XML. A service could be also created to send this data to some location (something similar to Microsoft's Data Transformation Service and SQL Server Agent working together).

APPENDIX A  
TESTING RESULTS

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Table 3. Integration Test Plan

<b>Test: Home Page</b>				
<b>No</b>	<b>Testing Case</b>	<b>Expected Result</b>	<b>Result</b>	<b>Comment</b>
1	Click Home	Home page comes up	Success	
2	Click Login	Login page comes up	Success	
3	Click New Account	New Account page comes up	Success	
4	Click Contact	Contact page comes up	Success	
5	Click Help	Help page comes up	Success	

<b>Test: Login Page</b>				
<b>No</b>	<b>Testing Case</b>	<b>Expected Result</b>	<b>Result</b>	<b>Comment</b>
1	Click Home	Home page comes up	Success	
2	Click Login	Login page comes up	Success	
3	Click New Account	New Account page comes up	Success	
4	Click Contact	Contact page comes up	Success	
5	Click Help	Help page comes up	Success	
6	Enter good login information and click submit	Log into forms web page. Upper right hand corner should indicate acct is logged in and give option to logout.	Success	
7	Enter bad login information and click submit.	Invalid login message. User is not logged in.	Success	

<b>Test: New Account Page</b>				
<b>No</b>	<b>Testing Case</b>	<b>Expected Result</b>	<b>Result</b>	<b>Comment</b>
1	Click Home	Home page comes up	Success	
2	Click Login	Login page comes up	Success	
3	Click New Account	New Account page comes up	Success	
4	Click Contact	Contact page comes up	Success	
5	Click Help	Help page comes up	Success	
6	Enter Name, Email, Existing Login, Password 4 characters or more, and repeat Password.	Message indicating login already exists. New account isn't created.	Success	
7	Enter Name, Email, Non-Existing Login, Password less than characters long, and repeat Password	Message indicating password must be at least 4 characters long.	Success	
8	Enter Name, Email, Non-Existing Login, Password 4 or	Message indicating account was created. Account is created.	Success	

	more characters long, and repeat Password			
--	---	--	--	--

<b>Test: Contact Page</b>				
<b>No</b>	<b>Testing Case</b>	<b>Expected Result</b>	<b>Result</b>	<b>Comment</b>
1	Click Home	Home page comes up	Success	
2	Click Login	Login page comes up	Success	
3	Click New Account	New Account page comes up	Success	
4	Click Contact	Contact page comes up	Success	
5	Click Help	Help page comes up	Success	
6	Click contacts.	Each contact should bring up an email window.	Success	

<b>Test: Help Page</b>				
<b>No</b>	<b>Testing Case</b>	<b>Expected Result</b>	<b>Result</b>	<b>Comment</b>
1	Click Home	Home page comes up	Success	
2	Click Login	Login page comes up	Success	
3	Click New Account	New Account page comes up	Success	
4	Click Contact	Contact page comes up	Success	
5	Click Help	Help page comes up	Success	

<b>Test: Forms Page</b>				
<b>No</b>	<b>Testing Case</b>	<b>Expected Result</b>	<b>Result</b>	<b>Comment</b>
1	Click Forms	Forms page comes up	Success	
2	Click Database	Database page comes up	Success	
3	Click Queries	Queries page comes up	Success	
4	Click Services	Services page comes up	Success	
5	Click Maintain Account	Maintain Account page comes up	Success	
6	Click add button	New page is added with blank name	Success	
7	Add name to new form and click save	Page is saved with new name	Success	
8	Click edit on new page	Form Designer comes up	Success	
9	Click view	Page is rendered in new browser window	Success	
10	Copy URL under new page. Open new browser. Paste the URL in address bar and hit enter.	Rendered page comes up.	Success	
11	Click delete	A prompt asking are you sure come up.	Success	

12	Click ok on delete prompt	Page is deleted and page is refreshed with updated list.	Success	
13	Display of logged in user.	Current login appears in upper right hand corner	Success	
14	Click logout in upper right hand corner	User is logged out and brought to the login screen.	Success	

### Test: Tables Page

No	Testing Case	Expected Result	Result	Comment
1	Click Forms	Forms page comes up	Success	
2	Click Database	Database page comes up	Success	
3	Click Queries	Queries page comes up	Success	
4	Click Services	Services page comes up	Success	
5	Click Maintain Account	Maintain Account page comes up	Success	
6	Click add button	Prompt for table name is brought up.	Success	
7	Enter table name and click ok.	Table is added to list on page.	Success	
8	Click edit schema on new table	Edit schema page comes up	Success	
9	Click edit data on new table	Edit data page comes up	Success	
10	Display of logged in user.	Current login appears in upper right hand corner	Success	
11	Click logout in upper right hand corner	User is logged out and brought to the login screen.	Success	

### Test: Queries Page

No	Testing Case	Expected Result	Result	Comment
1	Click Forms	Forms page comes up	Success	
2	Click Database	Database page comes up	Success	
3	Click Queries	Queries page comes up	Success	
4	Click Services	Services page comes up	Success	
5	Click Maintain Account	Maintain Account page comes up	Success	
6	Click add button	New query is added with blank name	Success	
7	Add name to new query and click save	Query is saved with new name	Success	
8	Click edit on new query	Query editor comes up	Success	
9	Click view	Query is ran with data	Success	



		in a table on new page.		
10	Click delete	A prompt asking are you sure come up.	Success	
11	Click ok on delete prompt	Page is deleted and page is refreshed with updated list.	Success	
12	Display of logged in user.	Current login appears in upper right hand corner	Success	
13	Click logout in upper right hand corner	User is logged out and brought to the login screen.	Success	

### Test: Services Page

No	Testing Case	Expected Result	Result	Comment
1	Click Forms	Forms page comes up	Success	
2	Click Database	Database page comes up	Success	
3	Click Queries	Queries page comes up	Success	
4	Click Services	Services page comes up	Success	
5	Click Maintain Account	Maintain Account page comes up	Success	

### Test: Maintain Account Page

No	Testing Case	Expected Result	Result	Comment
1	Click Forms	Forms page comes up	Success	
2	Click Database	Database page comes up	Success	
3	Click Queries	Queries page comes up	Success	
4	Click Services	Services page comes up	Success	
5	Click Maintain Account	Maintain Account page comes up	Success	
6	Change account information and click save account info.	Account information is updated.	Success	

<b>Test: Form Editor Page</b>				
<b>No</b>	<b>Testing Case</b>	<b>Expected Result</b>	<b>Result</b>	<b>Comment</b>
1 2	Click basic control group in toolbox	Other groups slide out of the way and the basic controls appear.	Success	
3	Click label control in toolbox	A new label control appears in the upper left of the designer	Success	
4	Click and drag the new label control away from the upper left corner by itself.	The control is moved away from the upper left hand corner to another location.	Success	
<i>Start of Label Properties</i>				
5	In the property editor for the label, Click on value for caption, enter Label2 and hit enter.	Label2 is displayed in the control	Success	
6	Click on the value for image.	Image dialog appears	Success	
7	Click browse and select an image in the image window. Click OK.	Image is displayed in the control	Success	
8	Click border in the property editor for the new label.	Border properties appear	Success	
9	Click on the style value column.	Style properties appear	Success	
10	Click on the color value column. Change it.	Color of border is changed	Success	
11	Click on the width value column. Change it.	Width of column is changed	Success	
12	Click on the top width value column. Change it.	Top width of border is changed	Success	
13	Click on the right width value column. Change it.	Right width of border is changed	Success	
14	Click on the bottom width value column. Change it.	Bottom width of border is changed	Success	
15	Click on the left width value column. Change it.	Left width of border is changed	Success	
16	Click on the layout group	Layout properties appear	Success	

17	Click on the font group	Font properties appear	Success	
18	Click on the font value column Change it.	Font changes in control	Success	
19	Click on the size value column Change it.	Font size changes in control	Success	
20	Click on the bold checkbox. Change it.	Text in control is set to bold	Success	
21	Click on the italics checkbox. Change it.	Text in control is set to italics	Success	
22	Click on the underline checkbox. Change Property.	Text in control is underlined	Success	
23	Click on the alignment value column. Change Property.	Alignment is changed in control	Success	
24	Click on the visible checkbox. Change Property.	Nothing happens.	Success	
25	Click on the position group	Position properties appear	Success	
26	Click on the height value column. Change Property.	Height changes of control	Success	
27	Click on the Z Order value column. Change Property.	Z-order changes in control	Success	
28	Click on width value column. Change Property.	Width of control changes	Success	
29	Click on the top value column. Change Property.	Top of control changes	Success	

30	Click on the left value column. Change Property.	Left of control changes	Success	
31	Click on the color group. Change Property.	Color properties appear	Success	
32	Click on the fore value column. Change Property.	Foreground color of control changes	Success	
33	Click on the back value column. Change Property.	Background color of control changes	Success	
34	Click on the DB field value column. Change Property.	Nothing happens. Property accepts value.	Success	
35	Click on the link group	Link properties appear	Success	
36	Click on the address/form value column. Change Property.	Nothing happens. Property accepts value.	Success	
37	Click on the target value column. Change Property.	Nothing happens. Property accepts value.	Success	
<i>End of Label Properties</i>				
38	Click hyperlink control in toolbox	A new hyperlink control appears in the upper left of the designer	Success	
39	Click and drag the new hyperlink control away from the upper left corner by itself.	The control is moved away from the upper left hand corner to another location.	Success	
<i>Start of Hyperlink Properties</i>				
40	In the property editor for the label, Click on value for caption, enter Label2 and hit enter.	Caption is changed control	Success	
43	Click border in the property editor for the new label.	Property is rendered in control	Success	
44	Click on the style value column. Change Property.	Property is rendered in control	Success	
45	Click on the color value column. Change Property.	Property is rendered in control	Success	

46	Click on the width value column. Change Property.	Property is rendered in control	Success	
47	Click on the top width value column. Change Property.	Property is rendered in control	Success	
48	Click on the right width value column. Change Property.	Property is rendered in control	Success	
49	Click on the bottom width value column. Change Property.	Property is rendered in control	Success	
50	Click on the left width value column. Change Property.	Property is rendered in control	Success	
51	Click on the layout group	Properties in this group appear	Success	
52	Click on the font group	Properties in this group appear	Success	
53	Click on the font value column. Change Property.	Property is rendered in control	Success	
54	Click on the size value column. Change Property.	Property is rendered in control	Success	
55	Click on the bold checkbox. Change Property.	Property is rendered in control	Success	
56	Click on the italics checkbox. Change Property.	Property is rendered in control	Success	
57	Click on the underline checkbox. Change Property.	Property is rendered in control	Success	
58	Click on the alignment value column. Change Property.	Property is rendered in control	Success	
59	Click on the visible checkbox. Change Property.	Nothing happens. Property accepts value.	Success	
60	Click on the position group	Properties in this group appear	Success	
61	Click on the height value column. Change Property.	Property is rendered in control	Success	
62	Click on the Z Order value column. Change Property.	Property is rendered in control	Success	

63	Click on width value column. Change Property.	Property is rendered in control	Success	
64	Click on the top value column. Change Property.	Property is rendered in control	Success	
65	Click on the left value column. Change Property.	Property is rendered in control	Success	
66	Click on the color group.	Properties in this group appear	Success	
67	Click on the fore value column. Change Property.	Property is rendered in control	Success	
68	Click on the back value column. Change Property.	Property is rendered in control	Success	
69	Click on the DB field value column. Change Property.	Nothing happens. Property accepts value.	Success	
70	Click on the link group	Properties in this group appear	Success	
71	Click on the address/form value column. Change Property.	Nothing happens. Property accepts value.	Success	
72	Click on the target value column. Change Property.	Nothing happens. Property accepts value.	Success	
<i>End of Hyperlink Properties</i>				
73	Click textbox control in toolbox	A new textbox control appears in the upper left of the designer	Success	
74	Click and drag the new textbox control away from the upper left corner by itself.	The control is moved away from the upper left hand corner to another location.	Success	
<i>Start of textbox properties</i>				
75	Click on the bold checkbox. Change Property.	Property is rendered in control	Success	
76	Click on the italics checkbox. Change Property.	Property is rendered in control	Success	
77	Click on the underline checkbox. Change Property.	Property is rendered in control	Success	
78	Click on the alignment value column. Change Property.	Property is rendered in control	Success	

79	Click on the visible checkbox. Change Property.	Nothing happens. Property accepts value.	Success	
80	Click on the position group	Properties in this group appear	Success	
81	Click on the height value column. Change Property.	Property is rendered in control	Success	
82	Click on the Z Order value column. Change Property.	Property is rendered in control	Success	
83	Click on width value column. Change Property.	Property is rendered in control	Success	
84	Click on the top value column. Change Property.	Property is rendered in control	Success	
85	Click on the left value column. Change Property.	Property is rendered in control.	Success	
86	Click on the color group	Properties in this group appear	Success	
87	Click on the fore value column. Change Property.	Property is rendered in control	Success	
88	Click on the back value column. Change Property.	Property is rendered in control	Success	
89	Click on the DB field value column. Change Property.	Nothing happens. Property accepts value.	Success	
<i>End of textbox properties</i>				
90	Click combo control in toolbox	A new combo control appears in the upper left of the designer	success	
91	Click and drag the new combo control away from the upper left corner by itself.	The control is moved away from the upper left hand corner to another location.	success	
<i>Start of Combo Properties</i>				
92	Click on the layout group	Properties in this group appear	success	

93	Click on the visible checkbox. Change Property.	Nothing happens. Property accepts value.	success	
94	Click on the position group	Properties in this group appear	success	
95	Click on the height value column. Change Property.	Property is rendered in control	success	
96	Click on the Z Order value column. Change Property.	Property is rendered in control	success	
97	Click on width value column. Change Property.	Property is rendered in control	success	
98	Click on the top value column. Change Property.	Property is rendered in control	success	
99	Click on the left value column. Change Property.	Property is rendered in control	success	
100	Click on the color group.	Properties in this group appear	success	
101	Click on the fore value column. Change Property.	Property is rendered in control	success	
102	Click on the back value column. Change Property.	Property is rendered in control	success	
103	Click on the font group.	Properties in this group appear	success	
104	Click on the font value column. Change Property.	Property is rendered in control	success	
105	Click on the size value column. Change Property.	Property is rendered in control	success	
106	Click on the bold checkbox. Change Property.	Property is rendered in control	success	
107	Click on the italics checkbox. Change Property.	Property is rendered in control	success	
108	Click on the underline checkbox. Change Property.	Property is rendered in control	success	
109	Click on the alignment value column. Change Property.	Property is rendered in control	success	



110	Click on the database group	Properties in this group appear	success	
111	Click on the DB field value column. Change Property.	Nothing happens. Property accepts value.	success	
112	Click on the Lookup Table Value Column. Change Property.	Nothing happens. Property accepts value.	success	
113	Click on the LookupTable Value Column. Change Property.	Nothing happens. Property accepts value.	success	
114	Click on the LookupColKey Value Column. Change Property.	Nothing happens. Property accepts value.	success	
115	Click on the LookupColShow Value Column. Change Property.	Nothing happens. Property accepts value.	success	
<i>End of Combo Properties</i>				
116	Click the list control in toolbox	A new list control appears in the upper left of the designer	success	
117	Click and drag the new list control away from the upper left corner by itself.	The control is moved away from the upper left hand corner to another location.	success	
<i>Start of list properties</i>				
118	Click on the database group	Properties in this group appear	success	
119	Click on the DB field value column. Change Property.	Nothing happens. Property accepts value.	success	
120	Click on the Lookup Table Value Column. Change Property.	Nothing happens. Property accepts value.	success	
121	Click on the LookupTable Value Column. Change Property.	Nothing happens. Property accepts value.	success	
122	Click on the LookupColKey Value Column	Nothing happens. Property accepts value.	success	
123	Click on the LookupColShow Value Column. Change Property.	Nothing happens. Property accepts value.	success	

124	Click on the layout group	Properties in this group appear	success	
125	Click on the visible checkbox. Change Property.	Nothing happens. Property accepts value.	success	
126	Click on the position group	Properties in this group appear	success	
127	Click on the height value column. Change Property.	Property is rendered in control	success	
128	Click on the Z Order value column. Change Property.	Property is rendered in control	success	
129	Click on width value column. Change Property.	Property is rendered in control	success	
130	Click on the top value column. Change Property.	Property is rendered in control	success	
131	Click on the left value column. Change Property.	Property is rendered in control	success	
132	Click on the caption value column. Change Property.	Property is rendered in control	success	
<i>End of list properties</i>				
133	Click the checkbox control in toolbox	A new checkbox control appears in the upper left of the designer	success	
134	Click and drag the new checkbox control away from the upper left corner by itself.	The control is moved away from the upper left hand corner to another location.	success	
<i>Start of check properties</i>				
135	Click on the valuelist value column. Change is	Property is rendered in control	success	
136	Click on the layout group	Properties in this group appear	success	
137	Click on the font group	Properties in this group appear	success	
138	Click on the font value column. Change Property.	Property is rendered in control	success	
139	Click on the size value column. Change Property.	Property is rendered in control	success	

140	Click on the bold checkbox. Change Property.	Property is rendered in control	success	
141	Click on the italics checkbox. Change Property.	Property is rendered in control	success	
142	Click on the underline checkbox. Change Property.	Property is rendered in control	success	
143	Click on the alignment value column. Change Property.	Property is rendered in control	success	
144	Click on the visible checkbox. Change Property.	Nothing happens. Property accepts value.	success	
145	Click on the position group	Properties in this group appear	success	
146	Click on the height value column. Change Property.	Property is rendered in control	success	
147	Click on the Z Order value column. Change Property.	Property is rendered in control	success	
148	Click on width value column. Change Property.	Property is rendered in control	success	
149	Click on the top value column. Change Property.	Property is rendered in control	success	
150	Click on the left value column. Change Property.	Property is rendered in control	success	
151	Click on the color group	Properties in this group appear	success	
152	Click on the fore value column. Change Property.	Property is rendered in control	success	
153	Click on the back value column. Change Property.	Property is rendered in control	success	
154	Click on the DB field value column. Change Property.	Nothing happens. Property accepts value.	success	
<i>End of check properties</i>				
155	Click the radio control in toolbox	A new radio control appears in the upper left of the designer	success	

156	Click and drag the new radio control away from the upper left corner by itself.	The control is moved away from the upper left hand corner to another location.	success	
<i>Start of radio properties</i>				
157	Click on the value column	Focus is set on the value column in the properties window	success	
158	Click on the layout group	Properties in this group appear	success	
159	Click on the font group	Properties in this group appear	success	
160	Click on the font value column. Change Property.	Property is rendered in control	success	
161	Click on the size value column. Change Property.	Property is rendered in control	success	
162	Click on the bold checkbox. Change Property.	Property is rendered in control	success	
163	Click on the italics checkbox. Change Property.	Property is rendered in control	success	
164	Click on the underline checkbox. Change Property.	Property is rendered in control	success	
165	Click on the alignment value column. Change Property.	Property is rendered in control	success	
166	Click on the visible checkbox. Change Property.	Nothing happens. Property accepts value.	success	
167	Click on the position group	Properties in this group appear	success	
168	Click on the height value column. Change Property.	Property is rendered in control	success	
169	Click on the Z Order value column. Change Property.	Property is rendered in control	success	
170	Click on width value column. Change Property.	Property is rendered in control	success	
171	Click on the top value column. Change Property.	Property is rendered in control	success	

172	Click on the left value column. Change Property.	Property is rendered in control	success	
173	Click on the color group. Change Property.	Properties in this group appear	success	
174	Click on the fore value column. Change Property.	Property is rendered in control	success	
175	Click on the back value column. Change Property.	Property is rendered in control	success	
176	Click on the DB field value column. Change Property.	Nothing happens. Property accepts value.	success	
<i>End of radio properties</i>				
177	Click the button control in toolbox.	A new button control appears in the upper left of the designer	success	
178	Click and drag the new button control away from the upper left corner by itself.	The control is moved away from the upper left hand corner to another location.	success	
<i>Start of button properties</i>				
179	Click on the layout group	Properties in this group appear	success	
180	Click on the visible checkbox. Change Property.	Nothing happens. Property accepts value.	success	
181	Click on the position group	Properties in this group appear	success	
182	Click on the height value column. Change Property.	Property is rendered in control	success	
183	Click on the Z Order value column. Change Property.	Property is rendered in control	success	
184	Click on width value column. Change Property.	Property is rendered in control	success	
185	Click on the top value column. Change Property.	Property is rendered in control	success	
186	Click on the left value column. Change Property.	Property is rendered in control	success	
187	Click on the action group	Properties in this group appear	success	

188	Click on type value column. Change Property.	Nothing happens. Property accepts value.	success	
189	Click on page value column. Change Property.	Nothing happens. Property accepts value.	success	
190	Click on the validation group	Properties in this group appear	success	
191	Click on validation field 1 value column. Change Property.	Nothing happens. Property accepts value.	success	
192	Click on validation field 2 value column. Change Property.	Nothing happens. Property accepts value.	success	
193	Click on validation field 3 value column. Change Property.	Nothing happens. Property accepts value.	success	
194	Click on invalid login form value column. Change Property.	Nothing happens. Property accepts value.	success	
195	Click on the success login form value column. Change Property.	Nothing happens. Property accepts value.	success	
<i>End of button properties</i>				
196	Click extended control group in toolbox	Other groups slide out of the way and the extended controls appear.	success	
197	Click the grid control in toolbox	A new grid control appears in the upper left of the designer	success	
198	Click and drag the new grid control away from the upper left corner by itself.	The control is moved away from the upper left hand corner to another location.	success	
<i>Start of grid properties</i>				
199	Check the Use Subform checkbox. Change Property.	Nothing happens. Property accepts value.	success	
200	Click on the subform name value column. Change Property.	Nothing happens. Property accepts value.	success	

201	Click on the layout group	Properties in this group appear	success	
202	Click on the font group. Change Property.	Properties in this group appear	success	
203	Click on the font value column. Change Property.	Property is rendered in control	success	
204	Click on the size value column. Change Property.	Property is rendered in control	success	
205	Click on the bold checkbox. Change Property.	Property is rendered in control	success	
206	Click on the italics checkbox. Change Property.	Property is rendered in control	success	
207	Click on the underline checkbox. Change Property.	Property is rendered in control	success	
208	Click on the alignment value column	Property is rendered in control	success	
209	Click on the visible checkbox. Change Property.	Nothing happens. Property accepts value.	success	
210	Click on the position group	Properties in this group appear	success	
211	Click on the height value column. Change Property.	Property is rendered in control	success	
212	Click on the Z Order value column. Change Property.	Property is rendered in control	success	
213	Click on width value column. Change Property.	Property is rendered in control	success	
214	Click on the top value column. Change Property.	Property is rendered in control	success	
15	Click on the left value column. Change Property.	Property is rendered in control	success	
216	Click on the color group	Properties in this group appear	success	
217	Click on the fore value column. Change Property.	Property is rendered in control	success	

218	Click on the alignment value column. Change Property.	Property is rendered in control	success	
219	Click on the Data Field value column. Change Property.	Nothing happens. Property accepts value.	success	
220	Click on the search fields value column. Change Property.	Nothing happens. Property accepts value.	success	
221	Click on the data table value column. Change Property.	Nothing happens. Property accepts value.	success	
222	Click on the database group	Properties in this group appear	success	
223	Click on the maxrows value column. Change Property.	Nothing happens. Property accepts value.	success	
224	Click on the EditForm value column. Change Property.	Nothing happens. Property accepts value.	success	
225	Click on the AllowAdd checkbox. Change Property.	Nothing happens. Property accepts value.	success	
226	Click on the AllowDelete checkbox. Change Property.	Nothing happens. Property accepts value.	success	
End of grid properties				
227	Click view icon at the top.	Page is rendered in new browser	success	
228	Click the save icon at the top.	Page is saved	success	
229	Click on the label and select the first font in the combo at the top.	Property is rendered in control	success	
230	Select 10 in the font size combo at the top.	Property is rendered in control	success	
231	Click the "B" at the top.	Property is rendered in control	success	
232	Click the "I" the top.	Property is rendered in control	success	
233	Click the "U" at the top.	Property is rendered in control	success	
234	Click the left alignment icon at the top.	Property is rendered in control	success	



235	Click the center alignment icon at the top	Property is rendered in control	success	
36	Click the right alignment icon at the top.	Property is rendered in control	success	
237	Click the copy icon at the top.	A copy of the control is created	success	
238	Click on the new control and click the delete icon at the top.	Control is deleted	success	
239	Click the exit icon.	Designer exits and user is brought back to WebPage list.	success	

APPENDIX B  
SOURCE CODE

```

//*****
//      File Name: Designer.java
//*****

import java.awt.*;
import java.awt.event.*;
import java.util.*;
import java.applet.*;
import javax.swing.event.TableModelListener;
import javax.swing.event.TableModelEvent;
import javax.swing.*;
import javax.swing.border.*;
import javax.swing.table.*;
import java.awt.*;
import java.util.ArrayList;
import java.util.List;
import javax.swing.*;
import javax.swing.event.*;
import javax.swing.table.*;
import java.lang.reflect.*;
import java.net.*;
import netscape.javascript.*;

public class Designer extends JApplet
implements MouseListener, MouseMotionListener, ActionListener{

    private int x,y,w,h;
    private Component objLastControl,objControl;
    private int mode;
    int intDZWidth=4;
    ReflectionUtility ru = new ReflectionUtility();
    Hashtable hshControls = new Hashtable();
    Hashtable hshControlObjs = new Hashtable();
    private int zIndex=0;
    JLayeredPane layeredPane;
    DesignerControlBorder objControlBorder;
    JLabel objSplashScreen;
    String strChangeControlFunction;
    String strChangePropertyFunction;
    String strLastControlID;
    int lngJSCallBackEnabled=1;
        }else if(strControlType.toUpperCase().equals("HYPERLINK")){
            control = new DesignerHyperLink(this,strControlID);
        }else if(strControlType.toUpperCase().equals("LABEL")){
            control = new DesignerLabel(this,strControlID);
        }else if(strControlType.toUpperCase().equals("SCREEN")){
            control = new DesignerScreen(this,strControlID);
        }else if(strControlType.toUpperCase().equals("SUBMIT")){
            control = new DesignerButton(this,strControlID);
        }else if(strControlType.toUpperCase().equals("TEXT")){
            control = new DesignerTextField(this,strControlID);
        }
    }

    if(control != null){
        ru.Invoke((Object)control,"setID", strControlID);
        hshControls.put(strControlID,control);
        hshControlObjs.put(control,strControlID);
        control.addMouseListener(this);
        control.addMouseMotionListener(this);
        zIndex++;
        layeredPane.add(control);
        layeredPane.setLayer(control, zIndex);
    }
}

```

```

}else if(strControlType.toUpperCase().equals("HYPERLINK")){
    control = new DesignerHyperLink(this,strControlID);
}else if(strControlType.toUpperCase().equals("LABEL")){
    control = new DesignerLabel(this,strControlID);
}else if(strControlType.toUpperCase().equals("SCREEN")){
    control = new DesignerScreen(this,strControlID);
}else if(strControlType.toUpperCase().equals("SUBMIT")){
    control = new DesignerButton(this,strControlID);
}else if(strControlType.toUpperCase().equals("TEXT")){
    control = new DesignerTextField(this,strControlID);
}

if(control != null){
    ru.Invoke((Object)control,"setID", strControlID);
    hshControls.put(strControlID,control);
    hshControlObjs.put(control,strControlID);
    control.addMouseListener(this);
    control.addMouseMotionListener(this);
    zIndex++;
    layeredPane.add(control);
    layeredPane.setLayer(control, zIndex);
}

}

public void setControlCSSProperty(String strControlID,String
strPropertyName,String strPropertyValue){

    Object control = hshControls.get(strControlID);

    if(control != null){
        Object obj[] = new Object[2];
        if(strPropertyValue==null) strPropertyValue="";
        obj[0] = strPropertyName;
        obj[1] = strPropertyValue;
        ru.Invoke((Object)control,"ApplyStyle", obj);
    }

}

public void setControlProperty(String strControlID,String strPropertyName,String
strPropertyValue){
    if(strPropertyName.toLowerCase().equals("text")){

setControlCSSProperty(strControlID,strPropertyName,strPropertyValue);

    }

}

public void SetBorderColor(Object objControl, Color c){}

private void GenResize(Component c,int mode,int xdif, int ydif){
    int stretchX,stretchY;

    stretchX=0;
    stretchY=0;

    switch(mode){
    case 1:
        break;
    case 2:
        break;
    case 3:
        break;
}
}

```

```

        case 4:
            break;
        case 5:
            stretchX=xdif;
            break;
        case 6:
            stretchX=xdif;
            stretchY=ydif;
            break;
        case 7:
            stretchY=ydif;
            break;
        case 8:
            stretchY=ydif;
            stretchX=xdif;
            break;
        default:
            break;
    }
    c.setSize(c.getX()+stretchX,c.getY()+stretchY);
}

private void SetCurs(Component c, int mode){
    switch(mode){
        case 1:
            SetCurs2(c,Cursor.NW_RESIZE_CURSOR);
            break;
        case 2:
            SetCurs2(c,Cursor.N_RESIZE_CURSOR);
            break;
        case 3:
            SetCurs2(c,Cursor.NE_RESIZE_CURSOR);
            break;
        case 4:
            SetCurs2(c,Cursor.W_RESIZE_CURSOR);
            break;
        case 5:
            SetCurs2(c,Cursor.E_RESIZE_CURSOR);
            break;
        case 6:
            SetCurs2(c,Cursor.SW_RESIZE_CURSOR);
            break;
        case 7:
            SetCurs2(c,Cursor.S_RESIZE_CURSOR);
            break;
        case 8:
            SetCurs2(c,Cursor.SE_RESIZE_CURSOR);
            break;
        default:
            SetCurs2(c,Cursor.MOVE_CURSOR);
            break;
    }
}

private void SetCurs2(Component component, int c){
    component.setCursor(Cursor.getPredefinedCursor(c));
}

protected int MouseOnObjectSection(Component obj,int mouseX,int mouseY){
    //one of the following numbers will
    //be returned indicating where the mouse pointer
    //is located on the object. 0 is the center, and the width
    //of 1-8 is indicated by the variable intDZwidth

```

```

// 123
// 405
// 678

int MT,ML,T,L,H,W;
int TO,LO;

int intSection =0;

    TO=0;
    LO=0;

    T=obj.getX()+TO;
    L=obj.getY()+LO;
    H=obj.getHeight();
    W=obj.getWidth();
    MT=T+mouseY;
    ML=L+mouseX;

    //the width of the zone where the mouse pointer
    //will change to a stretch number (1-8)

    if((MT<=(T+intDZWidth))&&(ML<=(L+intDZWidth))){
        intSection = 1;
intDZWidth))){
    }else if((MT<=(T+intDZWidth))&&(ML>(L+intDZWidth))&&(ML<=(L+W-
        intSection = 2;
    }else if((MT<=(T+intDZWidth))&&(ML>(L+W-intDZWidth))){
        intSection = 3;
    }else if((ML<=(L+intDZWidth))&&(MT>(T+H-intDZWidth))){
        intSection = 4;
    }else if((ML>(L+W-intDZWidth))&&(MT<=(T+H-intDZWidth))){
        intSection = 5;
    }else if((MT>(T+H-intDZWidth))&&(ML<=(L+intDZWidth))){
        intSection = 6;
intDZWidth))){
    }else if((MT>(T+H-intDZWidth))&&(ML>(L+intDZWidth))&&(ML<=(L+W-
        intSection = 7;
    }else if((MT>(T+H-intDZWidth))&&(ML>(L+W-intDZWidth))){
        intSection = 8;
    }else{
        intSection = 0;
    }

    return intSection;
}

private void stretchObj(int intSection,Component obj,int w,int h){
//we dont want to the control to collapse to nothing
int minDim=2*intDZWidth+2;

    switch(intSection){
        case 5:
            obj.setSize(max(w,minDim),obj.getHeight());
            break;
        case 7:
            obj.setSize(obj.getWidth(),max(h,minDim));
            break;
        case 8:
            obj.setSize(max(w,minDim),max(h,minDim));
            break;
    }
}

```

```

}

private int min(int v1,int v2){
    if(v1<v2) return v1;
    return v2;
}

private int max(int v1,int v2){
    if(v1<v2) return v2;
    return v1;
}

public void setControlBorderVisible(int b){
    if(b==1){
        objControlBorder.setVisible(new Boolean(true));
    }else{
        objControlBorder.setVisible(new Boolean(false));
    }
}

public void setBorderToControl(String strControlID){
    Component objControl;

    objControl = (Component)hshControls.get((String)strControlID);

    if(objControl != null){
        if(getContentPane() == objControl){
            objControlBorder.setVisible(new Boolean(false));
        }else{
            objControlBorder.setVisible(new Boolean(true));
            objControlBorder.moveToControl(objControl);
        }
    }else{
        objControlBorder.setVisible(new Boolean(false));
    }
}

public void mousePressed(MouseEvent event) {
    if(objLastControl != null){
        SetBorderColor(objLastControl,Color.black);
    }

    objControl = (Component)event.getSource();

    if(getContentPane() == objControl){
        objControlBorder.setVisible(new Boolean(false));
        JS_CALLBACK_FUNCTION_ChangeControl("0");
    }else{
        objControlBorder.setVisible(new Boolean(true));

        if (hshTranslateControl.containsKey(objControl)){
            objControl =
(Component)hshTranslateControl.get(objControl);
        }

        x = event.getX();
        y = event.getY();
        w = objControl.getWidth();
        h = objControl.getHeight();
        mode=MouseOnObjectSection(objControl,event.getX(),event.getY());
        String strID = (String)hshControlObjs.get(objControl);
        objControlBorder.moveToControl(objControl);
        if(strID != null){

```

```

        JSCallbackFunction_ChangeControl(strID);
    }
}

public void mouseExited(MouseEvent event) {}

public void mouseReleased(MouseEvent event) {
    if(strLastControlID != null){

        JSCallbackFunction_ChangeProperty(strLastControlID,"top",String.valueOf(objControl.getY()));

        JSCallbackFunction_ChangeProperty(strLastControlID,"left",String.valueOf(objControl.getX()));

        JSCallbackFunction_ChangeProperty(strLastControlID,"width",String.valueOf(objControl.getWidth()));

        JSCallbackFunction_ChangeProperty(strLastControlID,"height",String.valueOf(objControl.getHeight()));
    }
    objLastControl = objControl;
    objControl = null;
    mode=0;
}

public void mouseClicked(MouseEvent event) {}

public void mouseEntered(MouseEvent event) {}

public void mouseDragged(MouseEvent event) {
    int xdif,ydif;
    int ow,oh,ex,ey;

    if(objControl != null){
        if(getContentPane() != objControl){
            if (mode==0){
                xdif = event.getX()-x;
                ydif = event.getY()-y;

                objControl.setLocation(objControl.getX()+xdif,objControl.getY()+ydif);
                objControlBorder.moveToControl(objControl);
            }else{
                ow = objControl.getWidth();
                oh = objControl.getHeight();
                ex = event.getX();
                ey = event.getY();

                stretchObj(mode,objControl,w+ex-x,h+ey-y);
                objControlBorder.moveToControl(objControl);
            }
        }
    }
}

public void mouseMoved(MouseEvent event) {
    Component objC;
    int x,y;

    x = event.getX();
    y = event.getY();
}

```



```

        objC = (Component)event.getSource();
        if(getContentPane() != objC){
            SetCurs(objC,MouseOnObjectSection(objC,x,y));
        }
    }

    public void actionPerformed(ActionEvent ae){
    }

    public void setJSCallBackFunction_ChangeControl(String strFunction){
        strChangeControlFunction = strFunction;
    }

    protected void JSCallBackFunction_ChangeControl(String strControlID){

        if (strChangeControlFunction.length() > 0 ){
            if(lngJSCallBackEnabled==1){
                Object obj[] = new Object[1];
                obj[0] = strControlID;

                JSObject win = JSObject.getWindow(this);
                win.call(strChangeControlFunction, obj );
                // Call f() in HTML page

                strLastControlID=strControlID;
            }
        }else{
            JOptionPane.showMessageDialog(null, "javascript change control
callback not defined","alert", 0);
        }
    }

    public void setJSCallBackFunction_ChangeProperty(String strFunction){
        strChangePropertyFunction = strFunction;
    }

    protected void JSCallBackFunction_ChangeProperty(String strControlID,String
strProperty,String strValue){

        if (strChangePropertyFunction.length() > 0 ){
            if(lngJSCallBackEnabled==1){

                Object obj[] = new Object[3];
                obj[0] = strControlID;
                obj[1] = strProperty;
                obj[2] = strValue;

                JSObject win = JSObject.getWindow((Applet)this);
                win.call(strChangePropertyFunction, obj );
                // Call f() in HTML page
            }
        }else{
            JOptionPane.showMessageDialog(null, "javascript change property
callback not defined","alert", 0);
        }
    }

}

interface DesignerControlInterface{

```

```

public void setID(String strID);
public String getID();
public void setLayer(Integer layer);
public void setIcon(ImageIcon icon);
public void ApplyStyle(String strStyle,String strValue);
public void ApplyStyleSheet(String strStyleSheet);
    public void setTop(Integer t);
    public void setLeft(Integer l);
    public void setWidth(Integer w);
    public void setHeight(Integer h);
    public void setHorizontalAlignment(Integer align);
    public void setUnderline(Boolean b);
    public void setBold(Boolean b);
    public void setItalic(Boolean b);
    public void setText(String t);
    public void setFontFamily(String f);
    public void setFontSize(Integer i);
    public void setBorder(String strBorder);
    public void setBorderSize(Integer i);
    public void setBorderLeftSize(Integer i);
    public void setBorderRightSize(Integer i);
    public void setBorderTopSize(Integer i);
    public void setBorderBottomSize(Integer i);
    public void setBorderColor(String strColor);
}

```

```

class DesignerLabel extends JLabel
implements DesignerControlInterface
{
    private String strControlID;
    private CSSProperties cssprops = new CSSProperties(this);
    private boolean blnBold;
    private boolean blnUnderline;
    private boolean blnItalic;
    private String strText;

    private int    intBorderWidthTop=0;
    private int    intBorderWidthLeft=0;
    private int    intBorderWidthBottom=0;
    private int    intBorderWidthRight=0;
    String strBorderColor="";
    String strFontFamily="TimesRoman";
    int intFontSize=12;

    ImageIcon icon=null;

    JApplet objParent;

    String strID;
    public void setID(String strID){
        this.strID=strID;
    }
    public String getID(){
        return strID;
    }
    public void setVisible(Boolean b){
        super.setVisible(b.booleanValue());
    }
    public void setLayer(Integer layer){
        objParent.getLayeredPane().setLayer(this, layer.intValue());
    }
}

```

```

public void setOpaque(Boolean b){
    super.setOpaque(b.booleanValue());
}

public DesignerLabel(JApplet objParent,String strControlID){
    super(strControlID);
    this.strControlID = strControlID;
    this.objParent = objParent;
    setBounds(0,0,50,20);
    setForeground(Color.decode("#000000"));
    setVerticalAlignment(JLabel.TOP);
    renderText();
}

public void paintComponent(Graphics g) {
    super.paintComponent(g);
    if(icon != null){
        int winc = icon.getIconWidth();
        int hinc = icon.getIconHeight();
        int w = getWidth();
        int h = getHeight();

        for (int i=0;i<h+hinc;i=i+hinc){
            for (int j=0;j<w+winc;j=j+winc){
                icon.paintIcon(this,g,j,i);
            }
        }
    }
}

public void setIcon(ImageIcon icon){
    this.icon = icon;
    setText("");
    repaint();
}

public void ApplyStyle(String strStyle,String strValue){
    cssprops.ApplyStyle(strStyle,strValue);
}

public void ApplyStyleSheet(String strStyleSheet){
    cssprops.ApplyStyleSheet(strStyleSheet);
}

public void setTop(Integer t){
    setLocation(getX(),t.intValue());
}
public void setLeft(Integer l){
    setLocation(l.intValue(),getY());
}
public void setWidth(Integer w){
    setSize(w.intValue(),getHeight());
}
public void setHeight(Integer h){
    setSize(getWidth(),h.intValue());
}
public void setHorizontalAlignment(Integer align){
    setHorizontalAlignment(align.intValue());
}
public void setUnderline(Boolean b){
    blnUnderline = b.booleanValue();
    renderText();
}

```

```

public void setBold(Boolean b){
    blnBold = b.booleanValue();
    renderText();
}
public void setItalic(Boolean b){
    blnItalic = b.booleanValue();
    renderText();
}
public void setText(String t){
    super.setText(t);
    strText=t;
    renderText();
}
public void setFontFamily(String f){
    if(f.length() == 0){
        f = "TimesRoman";
    }else if(f.equals("times")){
        f = "TimesRoman";
    }
    strFontFamily = f;
    renderText();
}
public void setFontSize(Integer i){
    intFontSize=i.intValue();
    renderText();
}
private void renderText(){
    String strNewText = new String(strText);
    Font f;
    int intPixelSize = getPixelSizeForFontPointSize(intFontSize);

    if(blnBold && blnItalic){
        f = new Font( strFontFamily, Font.BOLD + Font.ITALIC,intPixelSize);
    }else if(blnItalic){
        f = new Font( strFontFamily,Font.ITALIC,intPixelSize);
    }else if (blnBold){
        f = new Font( strFontFamily,Font.BOLD,intPixelSize);
    }else{
        f = new Font( strFontFamily,Font.PLAIN,intPixelSize);
    }
    setFont(f);

    if(blnUnderline){
        strNewText = "<U>" + strNewText + "</U>";
    }
    //if(blnUnderline||blnBold||blnItalic){
        strNewText = "<html>" + strNewText + "</html>";
        strNewText = strNewText;
    //}

    super.setText(strNewText);
}

public int getPixelSizeForFontPointSize( int pointSize ){
    Graphics g = getGraphics() ;
    if( g == null ) return -1 ;
    Font f = new Font( "Arial", 0, pointSize ) ;
    g.setFont( f ) ;
    FontMetrics fm = g.getFontMetrics() ;
    return fm.getAscent() + fm.getDescent() ;
}

public void setBorder(String strBorder){

```

```

        if(strBorder.equals("none")) {
        }else if(strBorder.equals("hidden")) {
        }else if(strBorder.equals("dotted")) {
        }else if(strBorder.equals("dashed")) {
        }else if(strBorder.equals("solid")) {
            setBorder(BorderFactory.createLineBorder(Color.black));
        }else if(strBorder.equals("ridge")) {
        }else if(strBorder.equals("inset")) {
        }else if(strBorder.equals("outset")) {
        }else if(strBorder.equals("inset")) {
        }else if(strBorder.equals("double")) {
        }
    }
    public void setBorderSize(Integer i){
        intBorderWidthTop = i.intValue();
        intBorderWidthLeft = i.intValue();
        intBorderWidthBottom = i.intValue();
        intBorderWidthRight = i.intValue();
        renderBorder();
    }

    public void setBorderLeftSize(Integer i){
        intBorderWidthLeft = i.intValue();
        renderBorder();
    }

    public void setBorderRightSize(Integer i){
        intBorderWidthRight = i.intValue();
        renderBorder();
    }

    public void setBorderTopSize(Integer i){
        intBorderWidthTop = i.intValue();
        renderBorder();
    }

    public void setBorderBottomSize(Integer i){
        intBorderWidthBottom = i.intValue();
        renderBorder();
    }

    public void setBorderColor(String strColor){
        strBorderColor=strColor;
        renderBorder();
    }

    private void renderBorder(){
        if(strBorderColor.equals("")){
            strBorderColor="#000000";
        }
        setBorder(BorderFactory.createMatteBorder(intBorderWidthTop,
intBorderWidthLeft,intBorderWidthBottom, intBorderWidthRight,
Color.decode(strBorderColor) ));
    }
}

```

```

class DesignerTextField extends JLabel
implements DesignerControlInterface
{
    //using a label that looks like a textfield
    //because the label is faster to move in the

```

```

//designer.
private String strControlID;
private CSSProperties cssprops = new CSSProperties(this);
private boolean blnBold;
private boolean blnUnderline;
private boolean blnItalic;
private String strText;
private int    intBorderWidthTop=0;
private int    intBorderWidthLeft=0;
private int    intBorderWidthBottom=0;
private int    intBorderWidthRight=0;
String strBorderColor="";
JApplet objParent;
String strID;

public DesignerTextField(JApplet objParent,String strControlID){
    this.strControlID = strControlID;
    this.objParent = objParent;

    setBounds(0,0,50,20);
    setOpaque(true);
    setBackground(Color.decode("#FFFFFF"));
    setBorder(
        BorderFactory.createBevelBorder(
            BevelBorder.LOWERED
            ,Color.decode("#FFFFFF")
            ,Color.decode("#D4D0C8")
            ,Color.decode("#404040")
            ,Color.decode("#808080")
        ));
}

public void setID(String strID){
    this.strID=strID;
}
public String getID(){
    return strID;
}
public void setOpaque(Boolean b){
    super.setOpaque(b.booleanValue());
}
public void setVisible(Boolean b){
    super.setVisible(b.booleanValue());
}

public void setLayer(Integer layer){
    objParent.getLayeredPane().setLayer(this, layer.intValue());
}

public void setIcon(ImageIcon icon){}

public void ApplyStyle(String strStyle,String strValue){
    cssprops.ApplyStyle(strStyle,strValue);
}

public void ApplyStyleSheet(String strStyleSheet){
    cssprops.ApplyStyleSheet(strStyleSheet);
}

public void setTop(Integer t){
    setLocation(getX(),t.intValue());
}

```

```

public void setLeft(Integer l){
    setLocation(l.intValue(),getY());
}
public void setWidth(Integer w){
    setSize(w.intValue(),getHeight());
}
public void setHeight(Integer h){
    setSize(getWidth(),h.intValue());
}
public void setHorizontalAlignment(Integer align){
    setHorizontalAlignment(align.intValue());
}
public void setUnderline(Boolean b){
    blnUnderline = b.booleanValue();
    renderText();
}
public void setBold(Boolean b){
    blnBold = b.booleanValue();

    Font f = getFont();
    if(blnBold){
        setFont(f.deriveFont(f.getStyle() | Font.BOLD));
    }else{
        setFont(f.deriveFont(f.getStyle() ^ Font.BOLD));
    }
}
public void setItalic(Boolean b){
    blnItalic = b.booleanValue();

    Font f = getFont();
    if(blnItalic){
        setFont(f.deriveFont(f.getStyle() | Font.ITALIC));
    }else{
        setFont(f.deriveFont(f.getStyle() ^ Font.ITALIC));
    }
}
public void setText(String t){
    super.setText(t);
    strText=t;
}
public void setFontFamily(String f){
    Font newFont = new Font( f, getFont().getStyle(), getFont().getSize() );
    setFont( newFont );
}
public void setFontSize(Integer i){
    Font newFont = new Font( getFont().getFontName(), getFont().getStyle(),
i.intValue() );
    setFont( newFont );
}
private void renderText(){
    String strNewText = new String(strText);

    if(blnUnderline){
        strNewText = "<U>" + strNewText + "</U>";
    }
    if(blnUnderline||blnBold||blnItalic){
        strNewText = "<html>" + strNewText + "</html>";
    }

    super.setText(strNewText);
}
public void setBorder(String strBorder){
    if(strBorder.equals("none")) {

```

```

        }else if(strBorder.equals("hidden")) {
        }else if(strBorder.equals("dotted")) {
        }else if(strBorder.equals("dashed")) {
        }else if(strBorder.equals("solid")) {
            setBorder(BorderFactory.createLineBorder(Color.black));
        }else if(strBorder.equals("ridge")) {
        }else if(strBorder.equals("inset")) {
        }else if(strBorder.equals("outset")) {
        }else if(strBorder.equals("inset")) {
        }else if(strBorder.equals("double")) {
        }
    }
    public void setBorderSize(Integer i){
        intBorderWidthTop = i.intValue();
        intBorderWidthLeft = i.intValue();
        intBorderWidthBottom = i.intValue();
        intBorderWidthRight = i.intValue();
        renderBorder();
    }

    public void setBorderLeftSize(Integer i){
        intBorderWidthLeft = i.intValue();
        renderBorder();
    }

    public void setBorderRightSize(Integer i){
        intBorderWidthRight = i.intValue();
        renderBorder();
    }

    public void setBorderTopSize(Integer i){
        intBorderWidthTop = i.intValue();
        renderBorder();
    }

    public void setBorderBottomSize(Integer i){
        intBorderWidthBottom = i.intValue();
        renderBorder();
    }

    public void setBorderColor(String strColor){
        strBorderColor=strColor;
        renderBorder();
    }

    private void renderBorder(){
        if(strBorderColor.equals("")){
            strBorderColor="#000000";
        }
        setBorder(BorderFactory.createMatteBorder(intBorderWidthTop,
intBorderWidthLeft,intBorderWidthBottom, intBorderWidthRight,
Color.decode(strBorderColor) ));
    }
}

```

```

class DesignerButton extends JButton
implements DesignerControlInterface
{
    private String strControlID;
    private CSSProperties cssprops = new CSSProperties(this);
    private boolean blnBold;
    private boolean blnUnderline;
    private boolean blnItalic;
    private String strText;
}

```



```

private int    intBorderWidthTop=0;
private int    intBorderWidthLeft=0;
private int    intBorderWidthBottom=0;
private int    intBorderWidthRight=0;
String strBorderColor="";
JApplet objParent;
String strID;

public DesignerButton(JApplet objParent,String strControlID){
    super(strControlID);
    this.strControlID = strControlID;
    this.objParent = objParent;
    setBounds(0,0,50,20);
    setOpaque(true);
    setBackground(Color.decode("#D4DOC8"));
}

public void setID(String strID){
    this.strID=strID;
}

public String getID(){
    return strID;
}

public void setOpaque(Boolean b){
    super.setOpaque(b.booleanValue());
}

public void setVisible(Boolean b){
    super.setVisible(b.booleanValue());
}

public void setParent(JApplet objParent){
    this.objParent = objParent;
}

public void setLayer(Integer layer){
    objParent.getLayeredPane().setLayer(this, layer.intValue());
}

public void setIcon(ImageIcon icon){
    setIcon((Icon)icon);
}

public void ApplyStyle(String strStyle,String strValue){
    cssprops.ApplyStyle(strStyle,strValue);
}

public void ApplyStyleSheet(String strStyleSheet){
    cssprops.ApplyStyleSheet(strStyleSheet);
}

public void setTop(Integer t){
    setLocation(getX(),t.intValue());
}

public void setLeft(Integer l){
    setLocation(l.intValue(),getY());
}

public void setWidth(Integer w){
    setSize(w.intValue(),getHeight());
}

public void setHeight(Integer h){
    setSize(getWidth(),h.intValue());
}

public void setHorizontalAlignment(Integer align){
    setHorizontalAlignment(align.intValue());
}
}

```

```

public void setUnderline(Boolean b){
    blnUnderline = b.booleanValue();
    renderText();
}
public void setBold(Boolean b){
    blnBold = b.booleanValue();

    Font f = getFont();
    if(blnBold){
        setFont(f.deriveFont(f.getStyle() | Font.BOLD));
    }else{
        setFont(f.deriveFont(f.getStyle() ^ Font.BOLD));
    }
}

public void setItalic(Boolean b){
    blnItalic = b.booleanValue();

    Font f = getFont();
    if(blnItalic){
        setFont(f.deriveFont(f.getStyle() | Font.ITALIC));
    }else{
        setFont(f.deriveFont(f.getStyle() ^ Font.ITALIC));
    }
}

public void setText(String t){
    super.setText(t);
    strText=t;
}

public void setFontFamily(String f){
    Font newFont = new Font( f, getFont().getStyle(), getFont().getSize() );
    setFont( newFont );
}

public void setFontSize(Integer i){
    Font newFont = new Font( getFont().getFontName(), getFont().getStyle(),
i.intValue() );
    setFont( newFont );
}

private void renderText(){

    String strNewText = new String(strText);

    if(blnUnderline){
        strNewText = "<U>" + strNewText + "</U>";
    }
    if(blnUnderline||blnBold||blnItalic){
        strNewText = "<html>" + strNewText + "</html>";
    }

    super.setText(strNewText);
}

public void setBorder(String strBorder){
    if(strBorder.equals("none")) {
    }else if(strBorder.equals("hidden")) {
    }else if(strBorder.equals("dotted")) {
    }else if(strBorder.equals("dashed")) {
    }else if(strBorder.equals("solid")) {
        setBorder(BorderFactory.createLineBorder(Color.black));
    }else if(strBorder.equals("ridge")) {
    }else if(strBorder.equals("inset")) {
    }else if(strBorder.equals("outset")) {
    }else if(strBorder.equals("inset")) {
}

```

```

        }else if(strBorder.equals("double")) {
        }
    }

    public void setBorderSize(Integer i){
        intBorderWidthTop = i.intValue();
        intBorderWidthLeft = i.intValue();
        intBorderWidthBottom = i.intValue();
        intBorderWidthRight = i.intValue();
        renderBorder();
    }

    public void setBorderLeftSize(Integer i){
        intBorderWidthLeft = i.intValue();
        renderBorder();
    }

    public void setBorderRightSize(Integer i){
        intBorderWidthRight = i.intValue();
        renderBorder();
    }

    public void setBorderTopSize(Integer i){
        intBorderWidthTop = i.intValue();
        renderBorder();
    }

    public void setBorderBottomSize(Integer i){
        intBorderWidthBottom = i.intValue();
        renderBorder();
    }

    public void setBorderColor(String strColor){
        strBorderColor=strColor;
        renderBorder();
    }

    private void renderBorder(){
        if(strBorderColor.equals("")){
            strBorderColor="#000000";
        }
        setBorder(BorderFactory.createMatteBorder(intBorderWidthTop,
intBorderWidthLeft,intBorderWidthBottom, intBorderWidthRight,
Color.decode(strBorderColor) ));
    }
}

class DesignerCheckBox extends JCheckBox
implements DesignerControlInterface
{
    private String strControlID;
    private CSSProperties cssprops = new CSSProperties(this);
    private boolean blnBold;
    private boolean blnUnderline;
    private boolean blnItalic;
    private String strText;
    private int    intBorderWidthTop=0;
    private int    intBorderWidthLeft=0;
    private int    intBorderWidthBottom=0;
    private int    intBorderWidthRight=0;
    String strBorderColor="";
    JApplet objParent;
    String strID;
}

```

```

public DesignerCheckBox(JApplet objParent,String strControlID){
    this.strControlID = strControlID;
    this.objParent = objParent;
    setBounds(0,0,50,20);
    setOpaque(true);
    Font f = getFont();
    setFont(f.deriveFont(f.getStyle() ^ Font.BOLD));
    setBackground(Color.decode("#FFFFFF"));
    setFont(f.deriveFont(f.getStyle() ^ Font.ITALIC));
}

public void setID(String strID){
    this.strID=strID;
}

public String getID(){
    return strID;
}

public void setOpaque(Boolean b){
    super.setOpaque(b.booleanValue());
}

public void setVisible(Boolean b){
    super.setVisible(b.booleanValue());
}

public void setLayer(Integer layer){
    objParent.getLayeredPane().setLayer(this, layer.intValue());
}

public void setIcon(ImageIcon icon){
    setIcon((Icon)icon);
}

public void ApplyStyle(String strStyle,String strValue){
    cssprops.ApplyStyle(strStyle,strValue);
}

public void ApplyStyleSheet(String strStyleSheet){
    cssprops.ApplyStyleSheet(strStyleSheet);
}

public void setTop(Integer t){
    setLocation(getX(),t.intValue());
}

public void setLeft(Integer l){
    setLocation(l.intValue(),getY());
}

public void setWidth(Integer w){
    setSize(w.intValue(),getHeight());
}

public void setHeight(Integer h){
    setSize(getWidth(),h.intValue());
}

public void setHorizontalAlignment(Integer align){
    setHorizontalAlignment(align.intValue());
}

public void setUnderline(Boolean b){

```

```

        blnUnderline = b.booleanValue();
        renderText();
    }

    public void setBold(Boolean b){
        blnBold = b.booleanValue();

        Font f = getFont();
        if(blnBold){
            setFont(f.deriveFont(f.getStyle() | Font.BOLD));
        }else{
            setFont(f.deriveFont(f.getStyle() ^ Font.BOLD));
        }
    }

    public void setItalic(Boolean b){
        blnItalic = b.booleanValue();
        Font f = getFont();
        if(blnItalic){
            setFont(f.deriveFont(f.getStyle() | Font.ITALIC));
        }else{
            setFont(f.deriveFont(f.getStyle() ^ Font.ITALIC));
        }
    }

    public void setText(String t){
        super.setText(t);
        strText=t;
    }

    public void setFontFamily(String f){
        Font newFont = new Font( f, getFont().getStyle(), getFont().getSize() );
        setFont( newFont );
    }

    public void setFontSize(Integer i){
        Font newFont = new Font( getFont().getFontName(), getFont().getStyle(),
i.intValue() );
        setFont( newFont );
    }

    private void renderText(){
        String strNewText = new String(strText);

        if(blnUnderline){
            strNewText = "<U>" + strNewText + "</U>";
        }
        if(blnUnderline||blnBold||blnItalic){
            strNewText = "<html>" + strNewText + "</html>";
        }
        super.setText(strNewText);
    }

    public void setBorder(String strBorder){
        if(strBorder.equals("none")) {
        }else if(strBorder.equals("hidden")) {
        }else if(strBorder.equals("dotted")) {
        }else if(strBorder.equals("dashed")) {
        }else if(strBorder.equals("solid")) {
            setBorder(BorderFactory.createLineBorder(Color.black));
        }else if(strBorder.equals("ridge")) {
        }else if(strBorder.equals("inset")) {
        }else if(strBorder.equals("outset")) {
        }else if(strBorder.equals("inset")) {
    }

```

```

        }else if(strBorder.equals("double")) {
        }
    }

    public void setBorderSize(Integer i){
        intBorderWidthTop = i.intValue();
        intBorderWidthLeft = i.intValue();
        intBorderWidthBottom = i.intValue();
        intBorderWidthRight = i.intValue();
        renderBorder();
    }

    public void setBorderLeftSize(Integer i){
        intBorderWidthLeft = i.intValue();
        renderBorder();
    }

    public void setBorderRightSize(Integer i){
        intBorderWidthRight = i.intValue();
        renderBorder();
    }

    public void setBorderTopSize(Integer i){
        intBorderWidthTop = i.intValue();
        renderBorder();
    }

    public void setBorderBottomSize(Integer i){
        intBorderWidthBottom = i.intValue();
        renderBorder();
    }

    public void setBorderColor(String strColor){
        strBorderColor=strColor;
        renderBorder();
    }

    private void renderBorder(){
        if(strBorderColor.equals("")){
            strBorderColor="#000000";
        }
        setBorder(BorderFactory.createMatteBorder(intBorderWidthTop,
intBorderWidthLeft,intBorderWidthBottom, intBorderWidthRight,
Color.decode(strBorderColor) ));
    }
}

```

```

class DesignerRadioButton extends JRadioButton
implements DesignerControlInterface
{
    private String strControlID;
    private CSSProperties cssprops = new CSSProperties(this);
    private boolean blnBold;
    private boolean blnUnderline;
    private boolean blnItalic;
    private String strText;
    private int    intBorderWidthTop=0;
    private int    intBorderWidthLeft=0;
    private int    intBorderWidthBottom=0;
    private int    intBorderWidthRight=0;
    String strBorderColor="";
    JApplet objParent;
    String strID;
}

```

```

public DesignerRadioButton(JApplet objParent,String strControlID){
    this.strControlID = strControlID;
    this.objParent = objParent;
    setBounds(0,0,50,20);
    setOpaque(true);
    Font f = getFont();
    setFont(f.deriveFont(f.getStyle() ^ Font.BOLD));
    setBackground(Color.decode("#FFFFFF"));
    setFont(f.deriveFont(f.getStyle() ^ Font.ITALIC));
}

public void setID(String strID){
    this.strID=strID;
}

public String getID(){
    return strID;
}

public void setOpaque(Boolean b){
    super.setOpaque(b.booleanValue());
}

public void setVisible(Boolean b){
    super.setVisible(b.booleanValue());
}

public void setLayer(Integer layer){
    objParent.getLayeredPane().setLayer(this, layer.intValue());
}

public void setIcon(ImageIcon icon){
    setIcon((Icon)icon);
}

public void ApplyStyle(String strStyle,String strValue){
    cssprops.ApplyStyle(strStyle,strValue);
}

public void ApplyStyleSheet(String strStyleSheet){
    cssprops.ApplyStyleSheet(strStyleSheet);
}

public void setTop(Integer t){
    setLocation(getX(),t.intValue());
}

public void setLeft(Integer l){
    setLocation(l.intValue(),getY());
}

public void setWidth(Integer w){
    setSize(w.intValue(),getHeight());
}

public void setHeight(Integer h){
    setSize(getWidth(),h.intValue());
}

public void setHorizontalAlignment(Integer align){
    setHorizontalAlignment(align.intValue());
}

public void setUnderline(Boolean b){

```

```

        blnUnderline = b.booleanValue();
        renderText();
    }

    public void setBold(Boolean b){
        blnBold = b.booleanValue();

        Font f = getFont();
        if(blnBold){
            setFont(f.deriveFont(f.getStyle() | Font.BOLD));
        }else{
            setFont(f.deriveFont(f.getStyle() ^ Font.BOLD));
        }
    }

    public void setItalic(Boolean b){
        blnItalic = b.booleanValue();
        Font f = getFont();
        if(blnItalic){
            setFont(f.deriveFont(f.getStyle() | Font.ITALIC));
        }else{
            setFont(f.deriveFont(f.getStyle() ^ Font.ITALIC));
        }
    }

    public void setText(String t){
        super.setText(t);
        strText=t;
    }

    public void setFontFamily(String f){
        Font newFont = new Font( f, getFont().getStyle(), getFont().getSize() );
        setFont( newFont );
    }

    public void setFontSize(Integer i){
        Font newFont = new Font( getFont().getFontName(), getFont().getStyle(),
i.intValue() );
        setFont( newFont );
    }

    private void renderText(){
        String strNewText = new String(strText);
        if(blnUnderline){
            strNewText = "<U>" + strNewText + "</U>";
        }
        if(blnUnderline||blnBold||blnItalic){
            strNewText = "<html>" + strNewText + "</html>";
        }
        super.setText(strNewText);
    }

    public void setBorder(String strBorder){
        if(strBorder.equals("none")) {
        }else if(strBorder.equals("hidden")) {
        }else if(strBorder.equals("dotted")) {
        }else if(strBorder.equals("dashed")) {
        }else if(strBorder.equals("solid")) {
            setBorder(BorderFactory.createLineBorder(Color.black));
        }else if(strBorder.equals("ridge")) {
        }else if(strBorder.equals("inset")) {
        }else if(strBorder.equals("outset")) {
        }else if(strBorder.equals("inset")) {
        }else if(strBorder.equals("double")) {
    }

```



```

    }
}

public void setBorderSize(Integer i){
    intBorderWidthTop = i.intValue();
    intBorderWidthLeft = i.intValue();
    intBorderWidthBottom = i.intValue();
    intBorderWidthRight = i.intValue();
    renderBorder();
}

public void setBorderLeftSize(Integer i){
    intBorderWidthLeft = i.intValue();
    renderBorder();
}

public void setBorderRightSize(Integer i){
    intBorderWidthRight = i.intValue();
    renderBorder();
}

public void setBorderTopSize(Integer i){
    intBorderWidthTop = i.intValue();
    renderBorder();
}

public void setBorderBottomSize(Integer i){
    intBorderWidthBottom = i.intValue();
    renderBorder();
}

public void setBorderColor(String strColor){
    strBorderColor=strColor;
    renderBorder();
}

private void renderBorder(){
    if(strBorderColor.equals("")){
        strBorderColor="#000000";
    }
    setBorder(BorderFactory.createMatteBorder(intBorderWidthTop,
intBorderWidthLeft,intBorderWidthBottom, intBorderWidthRight,
Color.decode(strBorderColor) ));
}
}

```

```

class DesignerHyperLink extends JLabel
implements DesignerControlInterface
{
    private String strControlID;
    private CSSProperties cssprops = new CSSProperties(this);
    private boolean blnBold;
    private boolean blnUnderline;
    private boolean blnItalic;
    private String strText;
    private int    intBorderWidthTop=0;
    private int    intBorderWidthLeft=0;
    private int    intBorderWidthBottom=0;
    private int    intBorderWidthRight=0;
    String strBorderColor="";
    String strFontFamily="TimesRoman";
    int intFontSize=12;
    ImageIcon icon=null;
    JApplet objParent;
}

```

```

String strID;

public void setID(String strID){
    this.strID=strID;
}

public String getID(){
    return strID;
}

public void setVisible(Boolean b){
    super.setVisible(b.booleanValue());
}

public void setLayer(Integer layer){
    objParent.getLayeredPane().setLayer(this, layer.intValue());
}

public void setOpaque(Boolean b){
    super.setOpaque(b.booleanValue());
}

public DesignerHyperLink(JApplet objParent,String strControlID){
    super(strControlID);
    this.strControlID = strControlID;
    this.objParent = objParent;
    setBounds(0,0,50,20);
    setForeground(Color.decode("#0000FF"));
    setVerticalAlignment(JLabel.TOP);
    setUnderline(new Boolean(true));
    renderText();
}

public void paintComponent(Graphics g) {
    super.paintComponent(g);

    if(icon != null){
        int winc = icon.getIconWidth();
        int hinc = icon.getIconHeight();
        int w = getWidth();
        int h = getHeight();

        for (int i=0;i<h+hinc;i=i+hinc){
            for (int j=0;j<w+winc;j=j+winc){
                icon.paintIcon(this,g,j,i);
            }
        }
    }
}

public void setIcon(ImageIcon icon){
    this.icon = icon;
}

public void ApplyStyle(String strStyle,String strValue){
    cssprops.ApplyStyle(strStyle, strValue);
}

public void ApplyStyleSheet(String strStyleSheet){
    cssprops.ApplyStyleSheet(strStyleSheet);
}

public void setTop(Integer t){

```

```

        setLocation(getX(),t.intValue());
    }

    public void setLeft(Integer l){
        setLocation(l.intValue(),getY());
    }

    public void setWidth(Integer w){
        setSize(w.intValue(),getHeight());
    }

    public void setHeight(Integer h){
        setSize(getWidth(),h.intValue());
    }

    public void setHorizontalAlignment(Integer align){
        setHorizontalAlignment(align.intValue());
    }

    public void setUnderline(Boolean b){
        blnUnderline = b.booleanValue();
        renderText();
    }

    public void setBold(Boolean b){
        blnBold = b.booleanValue();
        renderText();
    }

    public void setItalic(Boolean b){
        blnItalic = b.booleanValue();
        renderText();
    }

    public void setText(String t){
        super.setText(t);
        strText=t;
        renderText();
    }

    public void setFontFamily(String f){
        if(f.length() == 0){
            f = "TimesRoman";
        }else if(f.equals("times")){
            f = "TimesRoman";
        }
        strFontFamily = f;
        renderText();
    }

    public void setFontSize(Integer i){
        intFontSize=i.intValue();
        renderText();
    }

    private void renderText(){
        String strNewText = new String(strText);
        Font f;
        int intPixelSize = getPixelSizeForFontPointSize(intFontSize);
        if(blnBold && blnItalic){
            f = new Font( strFontFamily, Font.BOLD + Font.ITALIC,intPixelSize);
        }else if(blnItalic){
            f = new Font( strFontFamily,Font.ITALIC,intPixelSize);
        }else if (blnBold){

```

```

        f = new Font( strFontFamily,Font.BOLD,intPixelSize);
    }else{
        f = new Font( strFontFamily,Font.PLAIN,intPixelSize);
    }
    setFont(f);
    if(blnUnderline){
        strNewText = "<U>" + strNewText + "</U>";
    }
    if(blnUnderline||blnBold||blnItalic){
        strNewText = "<html>" + strNewText + "</html>";
        strNewText = strNewText;
    }
    super.setText(strNewText);
}

public int getPixelSizeForFontPointSize( int pointSize ){
    Graphics g = getGraphics() ;
    if( g == null ) return -1 ;
    Font f = new Font( "Arial", 0, pointSize ) ;
    g.setFont( f ) ;
    FontMetrics fm = g.getFontMetrics() ;
    return fm.getAscent() + fm.getDescent() ;
}

public void setBorder(String strBorder){

    if(strBorder.equals("none")) {
    }else if(strBorder.equals("hidden")) {
    }else if(strBorder.equals("dotted")) {
    }else if(strBorder.equals("dashed")) {
    }else if(strBorder.equals("solid")) {
        setBorder(BorderFactory.createLineBorder(Color.black));
    }else if(strBorder.equals("ridge")) {
    }else if(strBorder.equals("inset")) {
    }else if(strBorder.equals("outset")) {
    }else if(strBorder.equals("inset")) {
    }else if(strBorder.equals("double")) {
    }
}

public void setBorderSize(Integer i){
    intBorderWidthTop = i.intValue();
    intBorderWidthLeft = i.intValue();
    intBorderWidthBottom = i.intValue();
    intBorderWidthRight = i.intValue();
    renderBorder();
}

public void setBorderLeftSize(Integer i){
    intBorderWidthLeft = i.intValue();
    renderBorder();
}

public void setBorderRightSize(Integer i){
    intBorderWidthRight = i.intValue();
    renderBorder();
}

public void setBorderTopSize(Integer i){
    intBorderWidthTop = i.intValue();
    renderBorder();
}

public void setBorderBottomSize(Integer i){

```

```

        intBorderWidthBottom = i.intValue();
        renderBorder();
    }

    public void setBorderColor(String strColor){
        strBorderColor=strColor;
        renderBorder();
    }

    private void renderBorder(){
        if(strBorderColor.equals("")){
            strBorderColor="#000000";
        }
        setBorder(BorderFactory.createMatteBorder(intBorderWidthTop,
intBorderWidthLeft,intBorderWidthBottom, intBorderWidthRight,
Color.decode(strBorderColor) ));
    }
}

class DesignerComboBox extends JComboBox
implements DesignerControlInterface
{
    private String strControlID;
    private CSSProperties cssprops = new CSSProperties(this);
    private boolean blnBold;
    private boolean blnUnderline;
    private boolean blnItalic;
    private String strText;
    private int    intBorderWidthTop=0;
    private int    intBorderWidthLeft=0;
    private int    intBorderWidthBottom=0;
    private int    intBorderWidthRight=0;
    String strBorderColor="";
    JApplet objParent;
    String strID;

    public void setLayer(Integer layer){
        objParent.getLayeredPane().setLayer(this, layer.intValue());
    }

    public void setID(String strID){
        this.strID=strID;
    }

    public String getID(){
        return strID;
    }

    public void setOpaque(Boolean b){
        super.setOpaque(b.booleanValue());
    }

    public void setVisible(Boolean b){
        super.setVisible(b.booleanValue());
    }

    public DesignerComboBox(JApplet objParent,String strControlID){
        this.strControlID = strControlID;
        this.objParent = objParent;
        setBounds(0,0,50,20);
        setEditable(false);
    }

    public void setIcon(ImageIcon icon){}
}

```

```

public void ApplyStyle(String strStyle,String strValue){
    cssprops.ApplyStyle(strStyle,strValue);
}

public void ApplyStyleSheet(String strStyleSheet){
    cssprops.ApplyStyleSheet(strStyleSheet);
}

public void setTop(Integer t){
    setLocation(getX(),t.intValue());
}

public void setLeft(Integer l){
    setLocation(l.intValue(),getY());
}

public void setWidth(Integer w){
    setSize(w.intValue(),getHeight());
}

public void setHeight(Integer h){
    setSize(getWidth(),h.intValue());
}

public void setSize(int w, int h){
    final int fixedHeight = 20;
    super.setSize(w,fixedHeight);
    JComboBox box = (JComboBox)this;
    for (int i = 0; i < box.getComponentCount(); i++) {
        Component component = box.getComponent(i);
        component.setSize(w,fixedHeight);
    }
}

public void setHorizontalAlignment(Integer align){}

public void setUnderline(Boolean b){
    blnUnderline = b.booleanValue();
    renderText();
}

public void setBold(Boolean b){
    blnBold = b.booleanValue();

    Font f = getFont();
    if(blnBold){
        setFont(f.deriveFont(f.getStyle() | Font.BOLD));
    }else{
        setFont(f.deriveFont(f.getStyle() ^ Font.BOLD));
    }
}

public void setItalic(Boolean b){
    blnItalic = b.booleanValue();
    Font f = getFont();
    if(blnItalic){
        setFont(f.deriveFont(f.getStyle() | Font.ITALIC));
    }else{
        setFont(f.deriveFont(f.getStyle() ^ Font.ITALIC));
    }
}

public void setText(String t){}

```

```

public void setFontFamily(String f){
    Font newFont = new Font( f, getFont().getStyle(), getFont().getSize() );
    setFont( newFont );
}

public void setFontSize(Integer i){
    Font newFont = new Font( getFont().getFontName(), getFont().getStyle(),
i.intValue() );
    setFont( newFont );
}

private void renderText(){
    String strNewText = new String(strText);
    if(blnUnderline){
        strNewText = "<U>" + strNewText + "</U>";
    }
    if(blnUnderline||blnBold||blnItalic){
        strNewText = "<html>" + strNewText + "</html>";
    }
}

public void setBorder(String strBorder){
    if(strBorder.equals("none")) {
    }else if(strBorder.equals("hidden")) {
    }else if(strBorder.equals("dotted")) {
    }else if(strBorder.equals("dashed")) {
    }else if(strBorder.equals("solid")) {
        setBorder(BorderFactory.createLineBorder(Color.black));
    }else if(strBorder.equals("ridge")) {
    }else if(strBorder.equals("inset")) {
    }else if(strBorder.equals("outset")) {
    }else if(strBorder.equals("inset")) {
    }else if(strBorder.equals("double")) {
    }
}

public void setBorderSize(Integer i){
    intBorderWidthTop = i.intValue();
    intBorderWidthLeft = i.intValue();
    intBorderWidthBottom = i.intValue();
    intBorderWidthRight = i.intValue();
    renderBorder();
}

public void setBorderLeftSize(Integer i){
    intBorderWidthLeft = i.intValue();
    renderBorder();
}

public void setBorderRightSize(Integer i){
    intBorderWidthRight = i.intValue();
    renderBorder();
}

public void setBorderTopSize(Integer i){
    intBorderWidthTop = i.intValue();
    renderBorder();
}

public void setBorderBottomSize(Integer i){
    intBorderWidthBottom = i.intValue();
    renderBorder();
}

```





```

        setBounds(0,0,50,20);
    }

    public Object getJList(){
        return dataList;
    }

    public void setIcon(ImageIcon icon){}

    public void ApplyStyle(String strStyle,String strValue){
        cssprops.ApplyStyle(strStyle,strValue);
    }

    public void ApplyStyleSheet(String strStyleSheet){
        cssprops.ApplyStyleSheet(strStyleSheet);
    }

    public void setTop(Integer t){
        setLocation(getX(),t.intValue());
    }

    public void setLeft(Integer l){
        setLocation(l.intValue(),getY());
    }

    public void setWidth(Integer w){
        setSize(w.intValue(),getHeight());
    }

    public void setHeight(Integer h){
        setSize(getWidth(),h.intValue());
    }

    public void setSize(int w, int h){
        super.setSize(w,h);
        dataList.setSize(w,h);
    }

    public void setHorizontalAlignment(Integer align){}

    public void setUnderline(Boolean b){
        blnUnderline = b.booleanValue();
        renderText();
    }

    public void setBold(Boolean b){
        blnBold = b.booleanValue();
        Font f = getFont();
        if(blnBold){
            setFont(f.deriveFont(f.getStyle() | Font.BOLD));
        }else{
            setFont(f.deriveFont(f.getStyle() ^ Font.BOLD));
        }
    }

    public void setItalic(Boolean b){
        blnItalic = b.booleanValue();
        Font f = getFont();
        if(blnItalic){
            setFont(f.deriveFont(f.getStyle() | Font.ITALIC));
        }else{
            setFont(f.deriveFont(f.getStyle() ^ Font.ITALIC));
        }
    }
}

```

```

public void setText(String t){

public void setFontFamily(String f){
    Font newFont = new Font( f, getFont().getStyle(), getFont().getSize() );
    setFont( newFont );
}

public void setFontSize(Integer i){
    Font newFont = new Font( getFont().getFontName(), getFont().getStyle(),
i.intValue() );
    setFont( newFont );
}

private void renderText(){
    String strNewText = new String(strText);

    if(blnUnderline){
        strNewText = "<U>" + strNewText + "</U>";
    }
    if(blnUnderline||blnBold||blnItalic){
        strNewText = "<html>" + strNewText + "</html>";
    }
}

public void setBorder(String strBorder){
    if(strBorder.equals("none")) {
    }else if(strBorder.equals("hidden")) {
    }else if(strBorder.equals("dotted")) {
    }else if(strBorder.equals("dashed")) {
    }else if(strBorder.equals("solid")) {
        setBorder(BorderFactory.createLineBorder(Color.black));
    }else if(strBorder.equals("ridge")) {
    }else if(strBorder.equals("inset")) {
    }else if(strBorder.equals("outset")) {
    }else if(strBorder.equals("inset")) {
    }else if(strBorder.equals("double")) {
    }
}

public void setBorderSize(Integer i){
    intBorderWidthTop = i.intValue();
    intBorderWidthLeft = i.intValue();
    intBorderWidthBottom = i.intValue();
    intBorderWidthRight = i.intValue();
    renderBorder();
}

public void setBorderLeftSize(Integer i){
    intBorderWidthLeft = i.intValue();
    renderBorder();
}

public void setBorderRightSize(Integer i){
    intBorderWidthRight = i.intValue();
    renderBorder();
}

public void setBorderTopSize(Integer i){
    intBorderWidthTop = i.intValue();
    renderBorder();
}

public void setBorderBottomSize(Integer i){
    intBorderWidthBottom = i.intValue();
}

```

```

        renderBorder();
    }

    public void setBorderColor(String strColor){
        strBorderColor=strColor;
        renderBorder();
    }

    private void renderBorder(){
        if(strBorderColor.equals("")){
            strBorderColor="#000000";
        }
        setBorder(BorderFactory.createMatteBorder(intBorderWidthTop,
intBorderWidthLeft,intBorderWidthBottom, intBorderWidthRight,
Color.decode(strBorderColor) ));
    }
}

class DesignerGrid extends JScrollPane
implements DesignerControlInterface
{
    private String strControlID;
    private CSSProperties cssprops = new CSSProperties(this);
    private boolean blnBold;
    private boolean blnUnderline;
    private boolean blnItalic;
    private String strText;
    private int    intBorderWidthTop=0;
    private int    intBorderWidthLeft=0;
    private int    intBorderWidthBottom=0;
    private int    intBorderWidthRight=0;
    String strBorderColor="";
    String columnNames[] = { " ", " ", " ", " ", " ", " ", " ", " ", " ", " ", " " };
    String dataValues[][] =
    {
        { " ", " ", " ", " ", " ", " ", " ", " ", " ", " " },
        { " ", " ", " ", " ", " ", " ", " ", " ", " ", " " },
        { " ", " ", " ", " ", " ", " ", " ", " ", " ", " " },
        { " ", " ", " ", " ", " ", " ", " ", " ", " ", " " }
    };
    JTable table = new JTable( dataValues, columnNames );
    JApplet objParent;
    String strID;

    public DesignerGrid(JApplet objParent,String strControlID){
        setViewportView( table );
        this.strControlID = strControlID;
        this.objParent = objParent;
        setBounds(0,0,50,20);
        setOpaque(true);
        Font f = getFont();
        setFont(f.deriveFont(f.getStyle() ^ Font.BOLD));
    }

    public void setLayer(Integer layer){
        objParent.getLayeredPane().setLayer(this, layer.intValue());
    }

    public void setID(String strID){
        this.strID=strID;
    }

    public String getID(){

```

```

        return strID;
    }

    public void setOpaque(Boolean b){
        super.setOpaque(b.booleanValue());
    }

    public void setVisible(Boolean b){
        super.setVisible(b.booleanValue());
    }

    public void setIcon(ImageIcon icon){}

    public void ApplyStyle(String strStyle,String strValue){
        cssprops.ApplyStyle(strStyle,strValue);
    }

    public void ApplyStyleSheet(String strStyleSheet){
        cssprops.ApplyStyleSheet(strStyleSheet);
    }

    public void setTop(Integer t){
        setLocation(getX(),t.intValue());
    }

    public void setLeft(Integer l){
        setLocation(l.intValue(),getY());
    }

    public void setWidth(Integer w){
        setSize(w.intValue(),getHeight());
    }

    public void setHeight(Integer h){
        setSize(getWidth(),h.intValue());
    }

    public void setSize(int w, int h){
        super.setSize(w,h);
        table.setSize(w,h);
    }

    public void setHorizontalAlignment(Integer align){}

    public void setUnderline(Boolean b){
        blnUnderline = b.booleanValue();
        renderText();
    }

    public void setBold(Boolean b){
        blnBold = b.booleanValue();
        Font f = getFont();
        if(blnBold){
            setFont(f.deriveFont(f.getStyle() | Font.BOLD));
        }else{
            setFont(f.deriveFont(f.getStyle() ^ Font.BOLD));
        }
    }

    public void setItalic(Boolean b){
        blnItalic = b.booleanValue();
        Font f = getFont();
        if(blnItalic){
            setFont(f.deriveFont(f.getStyle() | Font.ITALIC));
        }else{

```

```

        setFont(f.deriveFont(f.getStyle() ^ Font.ITALIC));
    }
}

public void setText(String t){
    strText=t;
}

public void setFontFamily(String f){
    Font newFont = new Font( f, getFont().getStyle(), getFont().getSize() );
    setFont( newFont );
}

public void setFontSize(Integer i){
    Font newFont = new Font( getFont().getFontName(), getFont().getStyle(),
i.intValue() );
    setFont( newFont );
}

private void renderText(){
    String strNewText = new String(strText);
    if(blnUnderline){
        strNewText = "<U>" + strNewText + "</U>";
    }
    if(blnUnderline||blnBold||blnItalic){
        strNewText = "<html>" + strNewText + "</html>";
    }
}

public void setBorder(String strBorder){
    if(strBorder.equals("none")) {
    }else if(strBorder.equals("hidden")) {
    }else if(strBorder.equals("dotted")) {
    }else if(strBorder.equals("dashed")) {
    }else if(strBorder.equals("solid")) {
        setBorder(BorderFactory.createLineBorder(Color.black));
    }else if(strBorder.equals("ridge")) {
    }else if(strBorder.equals("inset")) {
    }else if(strBorder.equals("outset")) {
    }else if(strBorder.equals("inset")) {
    }else if(strBorder.equals("double")) {
    }
}

public void setBorderSize(Integer i){
    intBorderWidthTop = i.intValue();
    intBorderWidthLeft = i.intValue();
    intBorderWidthBottom = i.intValue();
    intBorderWidthRight = i.intValue();
    renderBorder();
}

public void setBorderLeftSize(Integer i){
    intBorderWidthLeft = i.intValue();
    renderBorder();
}

public void setBorderRightSize(Integer i){
    intBorderWidthRight = i.intValue();
    renderBorder();
}

public void setBorderTopSize(Integer i){
    intBorderWidthTop = i.intValue();

```

```

        renderBorder();
    }

    public void setBorderBottomSize(Integer i){
        intBorderWidthBottom = i.intValue();
        renderBorder();
    }

    public void setBorderColor(String strColor){
        strBorderColor=strColor;
        renderBorder();
    }

    private void renderBorder(){
        if(strBorderColor.equals("")){
            strBorderColor="#000000";
        }
        setBorder(BorderFactory.createMatteBorder(intBorderWidthTop,
intBorderWidthLeft,intBorderWidthBottom, intBorderWidthRight,
Color.decode(strBorderColor) ));
    }

    public void setBackground(Color c){
        getViewport().setBackground(c);
        if(c != null){
            if(table != null){
                for(int i
=0;i<table.getColumnModel().getColumnCount();i++){
                    DefaultTableCellRenderer grc = new
DefaultTableCellRenderer();
                    grc.setBackground(c);

                    table.getColumnModel().getColumn(i).setCellRenderer(grc);
                }
            }
        }
    }

    public void setForeground(Color c){
        getViewport().setForeground(c);
        if(c != null){
            if(table != null){
                for(int i
=0;i<table.getColumnModel().getColumnCount();i++){
                    DefaultTableCellRenderer grc = new
DefaultTableCellRenderer();
                    grc.setForeground(c);

                    table.getColumnModel().getColumn(i).setCellRenderer(grc);
                }
            }
        }
    }
}

```

```

class DesignerScreen extends Component
implements DesignerControlInterface
{
    private JApplet objParent;
    private String strControlID;
    private CSSProperties cssprops = new CSSProperties(this);
}

```

```

    public DesignerScreen(JApplet objParent,String strControlID){
        this.strControlID = strControlID;
        this.objParent = objParent;
        objParent.setForeground(Color.decode("#FFFFFF"));
        cssprops.setDebugMode(true);
    }

    public void setID(String strID){
        strControlID=strID;
    }

    public String getID(){
        return strControlID;
    }

    public void setLayer(Integer layer){

        public void setIcon(ImageIcon icon){}

        public void ApplyStyle(String strStyle,String strValue){
            cssprops.ApplyStyle(strStyle,strValue);
        }

    public void ApplyStyleSheet(String strStyleSheet){
        public void setTop(Integer t){}
        public void setLeft(Integer l){}
        public void setWidth(Integer w){}
        public void setHeight(Integer h){}
        public void setHorizontalAlignment(Integer align){}
        public void setUnderline(Boolean b){}
        public void setBold(Boolean b){}
        public void setItalic(Boolean b){}
        public void setText(String t){}
        public void setFontFamily(String f){}
        public void setFontSize(Integer i){}
        public void setBorder(String strBorder){}
        public void setBorderSize(Integer i){}
        public void setBorderLeftSize(Integer i){}
        public void setBorderRightSize(Integer i){}
        public void setBorderTopSize(Integer i){}
        public void setBorderBottomSize(Integer i){}
        public void setBorderColor(String strColor){}

        public void setBackground(Color c){
            objParent.getContentPane().setBackground(c);
        }

        public void setOpaque(Boolean b){}
    }

class DesignerControlBorder extends JLabel
{
    private String strControlID;
    private CSSProperties cssprops = new CSSProperties(this);
    private boolean blnBold;
    private boolean blnUnderline;
    private boolean blnItalic;
    private String strText;
    private int    intBorderWidthTop=0;
    private int    intBorderWidthLeft=0;
    private int    intBorderWidthBottom=0;

```

```

private int    intBorderWidthRight=0;
String strBorderColor="";
String strFontFamily="TimesRoman";
final int intFontSize=12;
final int borderSize=4;
ImageIcon icon=null;
JApplet objParent;

public DesignerControlBorder(JApplet objParent){
    this.objParent = objParent;
    setBounds(0,0,50,20);
    setBorder("solid");
    setBorderSize(new Integer(3));
    setBorderColor("#FF0000");
    setVisible(new Boolean(false));
}

public void moveToControl(Component objControl){
    setLocation(objControl.getX()-borderSize,objControl.getY()-borderSize);

setSize(objControl.getWidth()+borderSize*2,objControl.getHeight()+borderSize*2);
}

public void setVisible(Boolean b){
    super.setVisible(b.booleanValue());
}

public void setBorder(String strBorder){
    if(strBorder.equals("none")) {
    }else if(strBorder.equals("hidden")) {
    }else if(strBorder.equals("dotted")) {
    }else if(strBorder.equals("dashed")) {
    }else if(strBorder.equals("solid")) {
        setBorder(BorderFactory.createLineBorder(Color.black));
    }else if(strBorder.equals("ridge")) {
    }else if(strBorder.equals("inset")) {
    }else if(strBorder.equals("outset")) {
    }else if(strBorder.equals("inset")) {
    }else if(strBorder.equals("double")) {
    }
}

public void setBorderSize(Integer i){
    intBorderWidthTop = i.intValue();
    intBorderWidthLeft = i.intValue();
    intBorderWidthBottom = i.intValue();
    intBorderWidthRight = i.intValue();
    renderBorder();
}

public void setBorderColor(String strColor){
    strBorderColor=strColor;
    renderBorder();
}

private void renderBorder(){
    if(strBorderColor.equals("")){
        strBorderColor="#000000";
    }
    setBorder(BorderFactory.createMatteBorder(intBorderWidthTop,
intBorderWidthLeft,intBorderWidthBottom, intBorderWidthRight,
Color.decode(strBorderColor) ));
}
}

```



```

class CSSProperties{
    Object component;
    ReflectionUtility ru = new ReflectionUtility();
    Hashtable hshCSS = new Hashtable();
    boolean blnDebugMode=false;

    public CSSProperties(Object obj){
        this.component = obj;
    }

    public void ApplyStyle(String strStyle,String strValue){
        hshCSS.put(strStyle, strValue);
        PutStyleOnObject(strStyle, strValue);
    }

    private void PutStyleOnObject(String strStyle,String strValue){
        if(strStyle.equals("background")||(strStyle.equals("background-color"))) {
            if(strValue.length() >0){
                if(!strValue.substring(0,1).equals("#")){
                    strValue = "#" + strValue;
                }
                System.out.print(strValue);
                if(strValue.length()==7){
                    ru.Invoke(component,
"setBackground", (Object)Color.decode(strValue));
                    ru.Invoke(component, "setOpaque", new Boolean(true));
                }
            }
        }else{
        }
        }else if(strStyle.equals("background-image")){
            try{
                if(strValue.length()>0){
                    URL url = new URL(strValue);
                    Icon icon = new ImageIcon(url);
                    ru.Invoke(component, "setIcon", (Object)icon);
                }
            }catch(MalformedURLException e){
                System.out.println("error creating image icon:"+strStyle+"
from "+strValue);
            }
        }else if(strStyle.equals("border-bottom-width")){
            if(strValue.length() == 0) strValue="0";
            strValue = strValue.replaceAll("pt", "");
            strValue = strValue.replaceAll("px", "");
            ru.Invoke(component, "setBorderBottomSize", new Integer(strValue));
        }else if(strStyle.equals("border-color")){
            ru.Invoke(component, "setBorderColor", strValue);
        }else if(strStyle.equals("border-left-width")){
            if(strValue.length() == 0) strValue="0";
            strValue = strValue.replaceAll("pt", "");
            strValue = strValue.replaceAll("px", "");
            ru.Invoke(component, "setBorderLeftSize", new Integer(strValue));
        }else if(strStyle.equals("border-right-width")){
            if(strValue.length() == 0) strValue="0";
            strValue = strValue.replaceAll("pt", "");
            strValue = strValue.replaceAll("px", "");
            ru.Invoke(component, "setBorderRightSize", new Integer(strValue));
        }else if(strStyle.equals("border-style")){
            if(strValue.length() == 0) strValue="0";
            ru.Invoke(component, "setBorder", strValue);
        }else if(strStyle.equals("border-top-width")){
            if(strValue.length() == 0) strValue="0";
            strValue = strValue.replaceAll("pt", "");

```

```

        strValue = strValue.replaceAll("px","");
        ru.Invoke(component, "setBorderTopSize",new
Integer(Integer.parseInt(strValue,10)));
    }else if(strStyle.equals("border-width")){
        if(strValue.length() == 0) strValue="0";
        strValue = strValue.replaceAll("pt","");
        strValue = strValue.replaceAll("px","");
        ru.Invoke(component, "setBorderSize",new Integer(strValue));
    }else if(strStyle.equals("color")){
        if(strValue.length() >0){
            if(!strValue.substring(0,1).equals("#")){
                strValue = "#" + strValue;
            }
            if(strValue.length()==7){
                ru.Invoke(component,
"setForeground", (Object)Color.decode(strValue));
            }
        }else{
        }
    }else if(strStyle.equals("font-family")) {
        ru.Invoke(component, "setFontFamily", (Object)strValue);
    }else if(strStyle.equals("font-size")) {
        strValue = strValue.replaceAll("pt","");
        strValue = strValue.replaceAll("px","");

        if(strValue.length()>0){
            ru.Invoke(component, "setFontSize",new Integer(strValue));
        }
    }else if(strStyle.equals("font-style")) {
        Boolean b;
        if(strValue.equals("false")) strValue="";
        if(strValue.equals("true")) strValue="italic";
        if(strValue.equals("italic")) {
            b = new Boolean(true);
        }else {
            b = new Boolean(false);
        }
        ru.Invoke(component, "setItalic", (Object)b);
    }else if(strStyle.equals("font-weight")) {
        Boolean b;
        if(strValue.equals("false")) strValue="0";
        if(strValue.equals("true")) strValue="700";
        if(strValue.length() > 0){
            if(Integer.parseInt(strValue) >= 700){
                b = new Boolean(true);
            }else{
                b = new Boolean(false);
            }
        }else{
            b = new Boolean(false);
        }
        ru.Invoke(component, "setBold", (Object)b);
    }else if(strStyle.equals("height")) {
        if(strValue.length()>0){
            strValue = strValue.replaceAll("pt","");
            strValue = strValue.replaceAll("px","");
            Integer i = new Integer(strValue);
            ru.Invoke(component, "setHeight",i);
        }
    }else if(strStyle.equals("left")) {
        if(strValue.length()>0){
            strValue = strValue.replaceAll("pt","");
            strValue = strValue.replaceAll("px","");
            Integer i = new Integer(strValue);

```

```

        ru.Invoke(component, "setLeft",i);
    }
}
}else if(strStyle.equals("text-decoration")) {
    Boolean b;
    if(strValue.equals("false")) strValue="";
    if(strValue.equals("true")) strValue="underline";
    if(strValue.equals("underline")){
        b = new Boolean(true);
        ru.Invoke(component, "setUnderline",(Object)b);
    }else if(strValue.equals("none")){
        b = new Boolean(false);
        ru.Invoke(component, "setUnderline",(Object)b);
    }
}
}else if(strStyle.equals("top")) {
    if(strValue.length(>0){
        Integer i = new Integer(strValue);
        strValue = strValue.replaceAll("pt","");
        strValue = strValue.replaceAll("px","");
        ru.Invoke(component, "setTop",i);
    }
}
}else if(strStyle.equals("visible")) {
    if (blnDebugMode) System.out.println("setVisible("+strValue+"");
    if(strValue.equals("false")){
        ru.Invoke(component, "setVisible",new Boolean(false));
    }else{
        ru.Invoke(component, "setVisible",new Boolean(true));
    }
}
}else if(strStyle.equals("visibility")) {
}
}else if(strStyle.equals("width")) {
    if(strValue.length(>0){
        Integer i = new Integer(strValue);
        strValue = strValue.replaceAll("pt","");
        strValue = strValue.replaceAll("px","");
        ru.Invoke(component, "setWidth",i);
    }
}
}else if(strStyle.equals("z-index")) {
    if(strValue.length() == 0) strValue="0";
    ru.Invoke(component, "setLayer",new Integer(strValue));
}
}else if( (strStyle.equals("alignment")) || (strStyle.equals("text-align")) ) {
    if(strValue.equals("")) strValue="left";
    int align = -1;
    if(strValue.equals("left")) { align = SwingConstants.LEFT; }
    if(strValue.equals("center")) { align = SwingConstants.CENTER; }
}
}
}
    if(strValue.equals("right")) { align = SwingConstants.RIGHT;
}
}
    ru.Invoke(component, "setHorizontalAlignment",new Integer(align));
}
}else if(strStyle.toLowerCase().equals("text")) {
    ru.Invoke(component, "setText",strValue);
}
}
}

public void ApplyStyleSheet(String strStyleSheet){

public void setDebugMode(boolean b){
    blnDebugMode=b;
}

}
}

```

```

class ReflectionUtility{

```

```

    public Object Invoke(Object obj, String strMethod,Object[] objParamList){
        Method method;
    }
}

```

```

String returnType;
Object returnValue;
Object objParam;

returnValue = "";

try{
    Class c = obj.getClass();
    Method[] theMethods = c.getMethods();

    Class[] parameterTypes = new Class[objParamList.length];
    for (int k = 0; k < objParamList.length; k ++ ) {
        objParam = objParamList[k];
        parameterTypes[k] = objParam.getClass();
    }
    method = obj.getClass().getMethod( strMethod, parameterTypes );
    returnValue = method.invoke( obj, objParamList );
} catch (java.lang.RuntimeException e) {
    throw e;
} catch (java.lang.Exception e) {
    e.printStackTrace();
}
return returnValue;
}

public Object Invoke(Object obj, String strMethod, Object objParam){
    Method method;
    String returnType;
    Object[] objParams = new Object[1];

    objParams[0] = objParam;

    return Invoke(obj, strMethod, objParams);
}

public Object Invoke(Object obj, String strMethod, int intParam){
    Method method;
    String returnType;
    Object[] objParams = new Object[1];
    Integer i = new Integer(intParam);

    objParams[0] = i;

    return Invoke(obj, strMethod, objParams);
}
}
<?php
//*****
//          File Name: Designer.php
//*****

include 'appconfig.php';
include 'sql.php';

$vs = urlencode(viewstatetext());
?>

<html>
<head>

<script language="javascript">

    function init(){
        window.frames["controllist"].BuildControllist()

```

```

        window.frames["ControlProps"].frames["IFControlProps"].PC_Init();
    }
</script>
</head>

<frameset rows="90,*,15" frameborder="0" framespacing="2" onload="init()">
  <frame NORESIZE src="DesignerToolbar.php?id=<?php print $id ?>&__vs__=<?php print
$vs?>" scrolling="no">
    <frameset cols="150,*,200,0" frameborder="0" framespacing="2">
      <frame scrolling="auto" name="controllist"
src="DesignerControlList.php?__vs__=<?php print $vs?>">
      <frame src="<?php print $application_url_location;
?>/DesignerApplet.php?__vs__=<?php print $vs?>" name="designer">
      <frame src="<?php print $application_url_location;
?>/DesignerControlPropertyFrame.php?id=<?php print $id; ?>&__vs__=<?php print $vs?>"
scrolling="no" name="ControlProps">
      <frame src="DesignerFooter.php?id=<?php print $id; ?>&__vs__=<?php print
$vs?>" scrolling="no" name="Footer">
    </frameset>
    <frame NORESIZE src="DesignerInfo.php?id=<?php print $id ?>&__vs__=<?php print
$vs?>" scrolling="no">
  </frameset>

<body></body>
</html>
<?php
//*****
//          File Name: DesignerApplet.php
//*****

    include 'appconfig.php';
?>
<HTML>
<HEAD>
<SCRIPT Language="javascript">

function PC_ChangeControl(strControlID){
    window.parent.frames["ControlProps"].frames[0].PC_ChangeControl(strControlID);
}

function PC_ChangeProperty(strControlID,strProperty,strValue){
    window.parent.frames["ControlProps"].frames[0].PC_ChangeProperty(strControlID,str
Property,strValue);
}

</SCRIPT>

</HEAD>
<BODY BGCOLOR="000000" TOPMARGIN="0" LEFTMARGIN="0" MARGINWIDTH="0">
<CENTER>
<APPLET
    codebase = "<?php print $designer_applet_path; ?>"
    code    = "Designer.class"
    width   = "400%"
    height  = "400%"
    name    = "designer"
    MAYSCRIPT
  >
</APPLET>

</CENTER>
</BODY>
</HTML>

```

```

<?php
//*****
//          File Name: DesignerControlList.php
//*****

    include 'appconfig.php';
    include 'sql.php';

    $sql = SQL_ControlList2_1();

    $db = odbc_connect($viewstate['connectstring'], "", "", SQL_CUR_USE_ODBC);

    $result=odbc_exec($db,$sql);

?>

<html>
<body BGCOLOR="D4D0C8" style="border-width:2px;border-style:solid;border-color:#808080">

<script language="javascript">

<?php
    include 'buttonmenu.js';
?>

    function BuildControlList(){
        newMenu(0,0,'100');
<?php
    $beg=0;
    while(odbc_fetch_row($result)){
        $disabled = odbc_result($result,"Disabled");
        if($disabled == 0){
            $group = odbc_result($result,"GroupName");
            $name = odbc_result($result,"Name");
            $displayname = odbc_result($result,"DisplayName");
            $imageurl = odbc_result($result,"ImageURL");

            if($group != 0){
                if($beg != 0){
                    outputLine('                finishGroup();');
                }else{
                    $beg=1;
                }
                outputLine ('                addGroup("'.$displayname.'");');
            }else{
                outputLine ('
                addItem("'.$name.'","'.$displayname.'","'.$imageurl.'");');
            }
        }
    }

    function outputLine($line){
        print $line."\n";
    }
?>

        finishGroup();

        finishMenu();

    }

</script>

```

```

</body>
</html>

<?php
    odbc_close($db);

?>
<?php
//*****
//          File Name: DesignerControlProperties.js.php
//*****

    include 'sql.php';

    //Get The List of Controls
    $sql = SQL_ControlList2_1();
    //print $sql;
    $result=odbc_exec($db,$sql);
    $beg=0;
    $controllist = "\n//List of available controls and their property hierarchy\n";
    while(odbc_fetch_row($result)){
        $disabled = abs(odbc_result($result,"Disabled"));
        $controllist .= "\n";
        $controllist .= '        arrControlList["'.odbc_result($result,"name").'"] =
new Array()'. ";\n";
        for($i=1;$i<=odbc_num_fields($result);$i++){
            $val = odbc_result($result,odbc_field_name($result,$i));
            if (is_int($val)) $val = abs($val);
            $controllist .= '
        arrControlList["'.odbc_result($result,"name").'"]['.odbc_field_name($result,$i).
'"] = \''.$val.'\''.';\n';
        }
        $controllist .= '
arrControlList["'.odbc_result($result,"name").'"]["_PROPS"] = new Array();'. "\n";
        $controllist .= '
arrControlList["'.odbc_result($result,"name").'"]["_HASPROPS"] = 0;'. "\n";
    }

    //get list of control properties
    $sql = SQL_ControlPropertyList2_1();
    //print $sql;
    $proparr = array();
    $result=odbc_exec($db,$sql);
    $controllist .= "\n". ' arrControlList["_ROOTNODE"] = new Array();'. "\n";
    while(odbc_fetch_row($result)){
        $controllist .= "\n";
        $controllist .= '
        arrControlList["'.odbc_result($result,"ControlType").'"]["_PROPS"]['.odbc_result
($result,"ID").'"] = new Array();'. "\n";
        $cssname = odbc_result($result,"CSSName");
        $controllist .= '
        arrControlList["'.odbc_result($result,"ControlType").'"]['.odbc_result($result,"ID").'"] =
\''.odbc_result($result,"ID").'\';'. "\n";
        if(abs(odbc_result($result,"RootNode")) == 1){
            $controllist .= '
        arrControlList["'.odbc_result($result,"ControlType").'"]["_HASPROPS"] = 1;'. "\n";
            $controllist .= '
        arrControlList["'.odbc_result($result,"ControlType").'"]["_ROOTNODE"] =
'.odbc_result($result,"ID").';'. "\n";
        }
        for($i=1;$i<=odbc_num_fields($result);$i++){

```

```

        $val=odbc_result($result,odbc_field_name($result,$i));
        if (is_int($val)) $val = abs($val);
        $controllist .= '
arrControllist["'.odbc_result($result,"ControlType").'"]["_PROPS"]["'.odbc_result
($result,"ID").'"]["'.odbc_field_name($result,$i).'"] = \''.$val.'\''.'";\n";
    }
}

$id = $_GET["id"];
$webpagecontrollist = "
drag.addGroup('group0',false,false,false,'bar 0');\n\n";

$sql = SQL_ReportDesignerDesigner_1($id);
//print $sql;
$result=odbc_exec($db,$sql);
$controllist .= "\n//List of controls on the web page and their properties\n";
while(odbc_fetch_row($result)){
    $getfromlib = abs(odbc_result($result,"GetFromLibrary"));
    $controlid = abs(odbc_result($result,"ID"));
    $controltype = odbc_result($result,"ControlType");
    if($getfromlib != 0){
        $controllist .= "\n";
        $controllist .= ("    arrWebPageControls['.$controlid.'] = new
Array();\n");
        if($controltype == 'Screen'){
            $controllist .= ('        var strScreenID =
\''.$controlid.'";\n");
        }
        for($i=1;$i<=odbc_num_fields($result);$i++){
            $controllist .= '
arrWebPageControls["'. $controlid.''][''.odbc_field_name($result,$i).'"] =
\''.$odbc_result($result,odbc_field_name($result,$i)).'\''.'";\n";
        }
        $controllist .= '
arrWebPageControls["'. $controlid.'"]["_PROPS"] = new Array();'. "\n";
        $controllist .= '
arrWebPageControls["'. $controlid.'"]["_EXIST_STATE"] = "EXISTS";'. "\n";
    }
}

$sql = SQL_ReportDesignerDesigner_2($id);
//print $sql." \n";
$result=odbc_exec($db,$sql);
//$controllist .= "    //" . $sql." \n";
$dflag = 0;
$controllist .= "\n";
while(odbc_fetch_row($result)){
    $controlid = odbc_result($result,"ID");
    $val = odbc_result($result,"PropValue");
    $val = ereg_replace("\r", "\\r", $val);
    $val = ereg_replace("\n", "\\n", $val);

    $propname = odbc_result($result,"PropName");

    $propID = odbc_result($result,"PropID");
    $PID = odbc_result($result,"PID");

    $controllist .= '
arrWebPageControls["'. $controlid.'"]["_PROPS"]["'. $propID.'"] = new
Array();'. "\n";
}

```



```

        $controllist .= '
        arrWebPageControls["' . $controlid . '"]["_PROPS"]["' . $PropID . '"]["VALUE"] =
\''.fixValue($val).'\'' . "\n";
        $controllist .= '
        arrWebPageControls["' . $controlid . '"]["_PROPS"]["' . $PropID . '"]["ID"] =
\''. $PID . '\'' . "\n";

    }

    function fixValue($v){
        return ereg_replace("'", "\'", $v);
    }
}

```

?>

```
<script language="javascript">
```

```
var strLastWebPageControlID="";
var strNewWebPageControlIDCounter=0;
```

```
var arrControlList = new Array();
var arrWebPageControls = new Array();
var blnDoneLoading=false;
```

```
<?=$controllist?>
```

```
function PC_Init(){
```

```
    //load all the controls into the properties window
    PC_LoadPropsWindow();
```

```
    //add controls to the designer
    PC_LoadControlsIntoDesigner();
```

```
    //add controls to the combo above the properties window
    PC_LoadControlsIntoCombo();
```

```
    //start with top-level web page object
    strLastWebPageControlID=strScreenID;
    PC_SetPropsWindowToControl(strScreenID);//start with the web page object
```

```
    blnDoneLoading=true;
    // window.status = "";
```

```
}
```

```
function PC_LoadControlsIntoDesigner(){
```

```
    for(var strControlID in arrWebPageControls){
```

```
        //add control
        var strControlType = arrWebPageControls[strControlID]["ControlType"];
```

```
        window.parent.parent.frames["designer"].document.designer.loadControl(strControlType, strControlID);
```

```
        for(var strPropID in arrWebPageControls[strControlID]["_PROPS"]){
            var cssprop =
arrControlList[strControlType]["_PROPS"][strPropID]["CssName"];
            var strValue =
arrWebPageControls[strControlID]["_PROPS"][strPropID]["VALUE"];

```

```

        window.parent.parent.frames["designer"].document.designer.setControlCSSProperty(strControlID,cssprop,strValue);
    }
}

        window.parent.parent.frames["designer"].document.designer.setJSCallbackFunction_ChangeControl('PC_ChangeControl');
        window.parent.parent.frames["designer"].document.designer.setJSCallbackFunction_ChangeProperty('PC_ChangeProperty');

        window.parent.parent.frames["designer"].document.designer.finishedLoading();
}

function PC_LoadControlsIntoCombo(){
    for(var strControlID in arrWebPageControls){
        strControlType = arrWebPageControls[strControlID]["ControlType"];

        window.parent.parent.frames["ControlProps"].addControl(strControlID,strControlType);
    }

    window.parent.parent.frames["ControlProps"].init();
}

function PC_ChangeControl(strControlID){
    if(strControlID=="0"){
        PC_SetPropsWindowToControl(strScreenID);
    }else{
        PC_SetPropsWindowToControl(strControlID);
    }
}

function PC_ChangeProperty(strControlID,strProperty,strValue){
    PC_SetProperty("designer",strControlID,strProperty,strValue);
}

function PC_ChangePropertyCurrentControl(strProperty,strValue){
    if (strLastWebPageControlID != strScreenID){
        if (strLastWebPageControlID.length >0){
            PC_SetProperty("toolbar",strLastWebPageControlID,strProperty,strValue);
        }
    }
}

function PC_TogglePropertyCurrentControl(strProperty){
    if (strLastWebPageControlID != strScreenID){
        if (strLastWebPageControlID.length >0){
            strControlType =
arrWebPageControls[strLastWebPageControlID]["ControlType"];
            strPropID = arrControlList[strControlType][strProperty];
            if(strPropID != null){
                strValueList =
arrControlList["Label"]["_PROPS"][strPropID]["ValueList"];
                arrValueList = strValueList.split("|");
                if(strValueList != null){

```

```

        strValue =
arrWebPageControls[strLastWebPageControlID]["_PROPS"][strPropID]["VALUE"];
        if(strValue==arrValueList[0]){
            strValue=arrValueList[1];
        }else{
            strValue=arrValueList[0];
        }

        PC_SetProperty("toolbar",strLastWebPageControlID,strProperty,strValue);
    }
}

function PC_CopyControl(){
    if (strLastWebPageControlID != strScreenID){
        if (strLastWebPageControlID.length >0){
            strControlType =
arrWebPageControls[strLastWebPageControlID]["ControlType"];
            strNewID = PC_AddControl("control_box",strControlType);
            for(var strPropID in
arrWebPageControls[strLastWebPageControlID]["_PROPS"]){
                var strValue =
arrWebPageControls[strLastWebPageControlID]["_PROPS"][strPropID]["VALUE"];
                var cssprop =
arrControlList[strControlType]["_PROPS"][strPropID]["CssName"];
                if(cssprop=="left" || cssprop=="top") strValue="0";
                arrWebPageControls[strNewID]["_PROPS"][strPropID]["VALUE"]
= strValue;

                window.parent.parent.frames["designer"].document.designer.setControlCSSProperty(s
trNewID,cssprop,strValue);
            }
        }
    }

function PC_AddControl(strSource,strControlType){
var s="";

    switch(strSource){
        case "control_box":
            strNewWebPageControlIDCounter++;
            var strID = "_" +strNewWebPageControlIDCounter;

            arrWebPageControls[strID] = new Array();
            arrWebPageControls[strID]["ID"] = strID;
            arrWebPageControls[strID]["WebPageID"] = '';
            arrWebPageControls[strID]["ControlType"] = strControlType;
            arrWebPageControls[strID]["ControlID"] = 'field_'+strID;
            arrWebPageControls[strID]["GetFromLibrary"] = '1';
            arrWebPageControls[strID]["_PROPS"] = new Array();

            arrWebPageControls[strID]["_EXIST_STATE"] = "NEW";

            window.parent.parent.frames["designer"].document.designer.loadControl(strControlT
ype,strID);

            for(var strPropID in arrControlList[strControlType]["_PROPS"]){

                arrWebPageControls[strID]["_PROPS"][strPropID] = new
Array();

```

```

arrWebPageControls[strID]["_PROPS"][strPropID]["VALUE"] =
";
arrWebPageControls[strID]["_PROPS"][strPropID]["ID"] = "";
if(
arrControlList[strControlType]["_PROPS"][strPropID]["RootNode"] == "0" &&
arrControlList[strControlType]["_PROPS"][strPropID]["GroupNode"] == "0"){
var cssprop =
arrControlList[strControlType]["_PROPS"][strPropID]["CssName"];
var strValue =
arrControlList[strControlType]["_PROPS"][strPropID]["DefaultValue"];
arrWebPageControls[strID]["_PROPS"][strPropID]["VALUE"] = strValue;

window.parent.parent.frames["designer"].document.designer.setControlCSSProperty(s
trID,cssprop,strValue);

}
}

window.parent.parent.frames["ControlProps"].addControl(strID,strControlType);
window.parent.parent.frames["ControlProps"].init();
return strID;
break;
case "designer":
break;
case "property_window":
break;
}
}

function PC_DeleteControl(strSource,strWebPageControlID){

switch(strSource){
case "control_box":
break;
case "designer":
break;
case "property_window":
break;
}
}

var strLastPropertyName="";
var strLastPropertyValue="";

var tgl=0;
function PC_SetProperty(strSource,strWebPageControlID,strPropertyName,strPropertyValue){

if (strWebPageControlID=="0") strWebPageControlID=strScreenID;

tgl = (1- tgl);
window.status=tgl;

if( !( (strLastWebPageControlID == strWebPageControlID) && (strPropertyName ==
strLastPropertyName) && (strPropertyValue == strLastPropertyValue) )){
switch(strSource){

```

```

        case "control_box":
            break;
        case "designer":

            window.status=strSource+":"+strWebPageControlID+":"+strPropertyName+":"+strProperty
            tyValue;

                if (arrWebPageControls[strWebPageControlID] != null){
                    strControlType =
arrWebPageControls[strWebPageControlID]["ControlType"];
                    strPropID =
arrControlList[strControlType][strPropertyName];
                    if(strPropID != null){

                        window.status=strSource+":WPCID="+strWebPageControlID+":PID="+strPropID+":PN="+st
                        rPropertyName+":PV="+strPropertyValue;

                            //window.status=strPropertyName+":"+strPropertyValue

                                arrWebPageControls[strWebPageControlID]["_PROPS"][strPropID]["VALUE"] =
                                strPropertyValue;

                                    if(strLastWebPageControlID !=
strWebPageControlID){
                                        PC_SetPropsWindowToControl(strWebPageControlID);
                                        }else{
                                            //set the property

                                                document.propWindow.setPropertyInbound(strPropID, strPropertyValue);
                                                }
                                        }
                                    }
                                break;
                            case "property_window":
                                //set the property

                                    window.status=strSource+":"+strWebPageControlID+":"+strPropertyName+":"+strProper
                                    tyValue;

                                        //window.status=strPropertyName+":"+strPropertyValue

                                            window.parent.parent.frames["designer"].document.designer.JSCallBackEnabled(0);

                                                strControlType =
arrWebPageControls[strWebPageControlID]["ControlType"];
                                                strPropID =
arrControlList[strControlType][strPropertyName];
                                                cssprop =
arrControlList[strControlType]["_PROPS"][strPropID]["CssProp"];

                                                    arrWebPageControls[strWebPageControlID]["_PROPS"][strPropID]["VALUE"] =
                                                    strPropertyValue;

                                                        //alert(strControlType+":"+strPropID+": "+cssprop)
                                                        if(cssprop == "1"){

                                                            window.parent.parent.frames["designer"].document.designer.setControlCSSProperty(s
                                                            trWebPageControlID, strPropertyName, strPropertyValue);
                                                            }else{

```

```

        window.parent.parent.frames["designer"].document.designer.setControlProperty(strWebPageControlID, strPropertyName, strPropertyValue);
    }

    window.parent.parent.frames["designer"].document.designer.JSCallBackEnabled(1);

        break;
    case "toolbar":
        //set the property

        //window.status=strSource+": "+strWebPageControlID+": "+strPropertyName+": "+strPropertyValue;
        //window.status=strPropertyName+": "+strPropertyValue

    window.parent.parent.frames["designer"].document.designer.JSCallBackEnabled(0);

        strControlType =
arrWebPageControls[strWebPageControlID]["ControlType"];
        strPropID =
arrControlList[strControlType][strPropertyName];
        cssprop =
arrControlList[strControlType]["_PROPS"][strPropID]["CssProp"];

        arrWebPageControls[strWebPageControlID]["_PROPS"][strPropID]["VALUE"] =
strPropertyValue;
        //alert(strControlType+": "+strPropID+": "+cssprop)
        if(cssprop == "1"){

            window.parent.parent.frames["designer"].document.designer.setControlCSSProperty(strWebPageControlID, strPropertyName, strPropertyValue);
        }else{

            window.parent.parent.frames["designer"].document.designer.setControlProperty(strWebPageControlID, strPropertyName, strPropertyValue);
        }

        window.resizeTo(screen.width, screen.height);

        break;
    }

    window.parent.parent.frames["designer"].document.designer.width="50%";
    window.parent.parent.frames["designer"].document.designer.width="400%";
}

//window.status=strLastWebPageControlID+": "+strWebPageControlID+": "+strPropertyName+": "+strLastPropertyName+": "+strPropertyValue+": "+strLastPropertyValue

strLastWebPageControlID = strWebPageControlID;
strLastPropertyName=strPropertyName;
strLastPropertyValue=strPropertyValue;
}

function
PC_RenderControlProperty(strSource, strWebPageControlID, strPropertyName, strPropertyValue){
}

```

```

function PC_ReloadPropertyWindow(strWebPageControlID){

    //clear the prop window applet.
    //applet.Clear();

    //add corresponding properties and values.
    //for each property in web page control
    //
    applet.AddProperty(strSource,strPropertyName,strPropertyDisplayName,strPropertyVa
lue);
    //end for
}

function PC_LoadPropsWindow(){

    document.propWindow.setJSCallbackFunction_FileUpload('PC_FileUpload');
    document.propWindow.setJSCallbackFunction_ChangeEvent('PC_JavaSetPropertyCallBack
');

    document.propWindow.newTree();

    //var strControl="Label";

    for(var strControl in arrControlList){
        var intHasProps = arrControlList[strControl]["_HASPROPS"];
        if( intHasProps != 0){
            for(var strControlProp in arrControlList[strControl]["_PROPS"]){
                var strParentNode =
arrControlList[strControl]["_PROPS"][strControlProp]["ParentNodeID"];
                var strNode =
arrControlList[strControl]["_PROPS"][strControlProp]["ID"];
                var strDisplayName =
arrControlList[strControl]["_PROPS"][strControlProp]["DisplayName"];
                var strPropType =
arrControlList[strControl]["_PROPS"][strControlProp]["Type"];
                var strCssProp =
arrControlList[strControl]["_PROPS"][strControlProp]["CssProp"];
                if(strCssProp=="") strCssProp="0";
                var intCssProp = parseInt(strCssProp);
                var strDefaultValue =
arrControlList[strControl]["_PROPS"][strControlProp]["DefaultValue"];
                if(strDefaultValue==null) strDefaultValue= "";
                var strValueList =
arrControlList[strControl]["_PROPS"][strControlProp]["ValueList"];
                if(strValueList==null) strValueList= "";
                var strCSSName =
arrControlList[strControl]["_PROPS"][strControlProp]["CssName"];

                document.propWindow.addChild(strParentNode,strNode,strDisplayName,strPropType,int
CssProp,strDefaultValue,strValueList,strCSSName);
            }
        }
    }

}

var strLastControlType="";
var strLastControlID="";
function PC_SetPropsWindowToControl(strControlID){

```

```

if(strControlID=="0") strControlID=strScreenID;

var strControlType = arrWebPageControls[strControlID]["ControlType"];

if(strLastControlID != strControlID){
    //set the drop down above the property window to the new control
    window.parent.parent.frames["ControlProps"].changeOption(strControlID);

    //load values into prop window
    PC_LoadValuesIntoPropsWindow(strControlID);

    var intRootNode = arrControlList[strControlType]["_ROOTNODE"];
    //alert("PC_SetPropsWindowToControl:"+strControlID);
    document.propWindow.SetRootNode(intRootNode);

}

strLastControlID=strControlID;
strLastControlType = strControlType;
strLastWebPageControlID=strControlID;

}

function PC_LoadValuesIntoPropsWindow(strControlID){

    var strVisOrHidden =
window.parent.parent.frames["ControlProps"].document.getElementById("IFControlProps").style.visibility;
    window.parent.parent.frames["ControlProps"].document.getElementById("IFControlProps").style.visibility="hidden";

    for(var strPropID in arrWebPageControls[strControlID]["_PROPS"]){
        var strValue =
arrWebPageControls[strControlID]["_PROPS"][strPropID]["VALUE"];
        document.propWindow.setPropertyOutbound(strPropID,strValue,0);
    }

    window.parent.parent.frames["ControlProps"].document.getElementById("IFControlProps").style.visibility=strVisOrHidden;
}

function PC_FileUpload(strNodeName,strURL){

    var strURL = "imagepicker.php?&id="+strNodeName+"&__vs__=<?php print $vs?>";

    var h =
window.open(strURL,"imagepicker","toolbar=no,location=no,status=no,menubar=no,scrollbars=auto,resizable,alwaysRaised,dependent,titlebar=no,width=350px,height=210px,screenX=,left=,screenY=,top=");

    if (lh.opener){
        h.opener = self;
    }
}

function selectImageURL(strURL,strType,strID,strProp){
    var strBaseURL="<?php print $img_virtual_path; ?>";

    strURL = (strBaseURL+"_"+strURL);
}

```



```

strControlType = arrWebPageControls[strLastControlID]["ControlType"];
strPropertyName = arrControlList[strControlType]["_PROPS"][strID]["CssName"];

PC_SetProperty("property_window",strLastControlID,strPropertyName,strURL);

//document.propWindow.SetProperty(strID,strURL,0);
}

function PC_JavaSetPropertyCallBack(strRootNodeName,strNodeName,strValue){

    if(strRootNodeName=="0") strRootNodeName=strScreenID;

    strRootNodeName = strLastWebPageControlID;
    strControlType = arrWebPageControls[strRootNodeName]["ControlType"];

    //window.status =
    (strRootNodeName+"."+strNodeName+"."+strValue+"."+strControlType+", ");
    if(arrControlList[strControlType]["_PROPS"][strNodeName] != null){
        if(arrControlList[strControlType]["_PROPS"][strNodeName]["CssName"] !=
null){
            strPropName =
arrControlList[strControlType]["_PROPS"][strNodeName]["CssName"];
            //window.status =
            (strRootNodeName+"."+strNodeName+"."+strValue+"."+strControlType+"."+strPropName+", ");

            PC_SetProperty("property_window",strRootNodeName,strPropName,strValue);
        }else{
            //window.status = "1: " +
            (strRootNodeName+"."+strNodeName+"."+strValue+"."+strControlType+", ");
        }
    }else{
        //window.status = "2: " +
        (strRootNodeName+"."+strNodeName+"."+strValue+"."+strControlType+", ");
    }
}

function PC_SaveData(){
    top.frames["Footer"].SubmitData("save",PC_PackData());
}

function PC_PackData(){

    var delim1="<1>";
    var delim2="<2>";
    var delim3="<3>";
    var delim4="<4>";
    var delim5="<5>";
    var flg=0;

    var strData="";

    strData = strScreenID+delim1;

    for(var strControlID in arrWebPageControls){

        if(strData.length > 0){
            strData += delim2
        }

        strData += (arrWebPageControls[strControlID]["ID"]+delim3);
        strData += (arrWebPageControls[strControlID]["ControlType"]+delim3);
    }
}

```

```

        strData += (arrWebPageControls[strControlID]["_EXIST_STATE"]+delim3);
        flg=0;
        for(var strPropID in arrWebPageControls[strControlID]["_PROPS"]){
            if(flg==1){
                strData += delim4
            }
            strData += (strPropID+delim5);
            strData +=
(arrWebPageControls[strControlID]["_PROPS"][strPropID]["VALUE"]+delim5);
            strData +=
(arrWebPageControls[strControlID]["_PROPS"][strPropID]["ID"]);
            flg=1;
        }
    }
    return strData;
}

function PC_DeleteCurrentControl(){
    if(    (strLastWebPageControlID != strScreenID) &&
        (strLastWebPageControlID != "")){
        if(confirm("Are you sure you want to delete this control?")){
            window.parent.parent.frames["ControlProps"].deleteitem(strLastWebPageControlID);
            window.parent.parent.frames["ControlProps"].init();

            window.parent.parent.frames["designer"].document.designer.setControlCSSProperty(s
trLastWebPageControlID,"visible","false");

            window.parent.parent.frames["designer"].document.designer.setControlBorderVisible
(0);
            arrWebPageControls[strLastWebPageControlID]["_EXIST_STATE"] =
"DELETED";
            strLastWebPageControlID=strScreenID;
            PC_SetPropsWindowToControl(strScreenID);
        }
    }
}
</script>
<?php
//*****
//          File Name: DesignerControlProperties.php
//*****

    include 'appconfig.php';
    $vs = urlencode(viewstatetext());
?>

<html>

<head>
<script language="javascript">
//vs=<?php print $vs?>
</script>

<?php
    include 'DesignerControlProperties.js.php';
?>

```

```

</head>
<body TOPMARGIN="0" LEFTMARGIN="0" MARGINWIDTH="0" MARGINHEIGHT="0" BGCOLOR="#999999">
<CENTER>
<APPLET
    codebase = "<?php print $controlprops_applet_path; ?>"
    code     = "PropsTree.class"
    width    = "100%"
    height   = "100%"
    name     = "propWindow"
    BGCOLOR = "#999999"
    MAYSCRIPT
    >
</APPLET>
</CENTER>

<FORM name="frm" action="POST">
<input type="HIDDEN" name="act">
<input type="HIDDEN" name="data">

</FORM>
</body>

</html>
<?php
//*****
//          File Name: DesignerControlPropertyFrame.php
//*****

    include 'appconfig.php';
?>
<html>
<head>

<script language="javascript">
    var comborows = new Array();

    var strSelectedID="";

    function deleteitem(strID){
        comborows[strID] = null;
    }

    function additem(strID,strHTML){

        if(strSelectedID=="") strSelectedID = strID;

        comborows[strID] = strHTML;
    }

    var blnCBState=false;

    function createDropDownHeader(){
        var i=0;
        var strHTML="";

        strHTML += '<table cellpadding=0 cellspacing=0 border=0 style="text-
overflow:clip; overflow:hidden;border-width:2px;height:8px;width:100%;border-
style:inset">';
        strHTML += '<TD style="text-overflow:clip;
overflow:hidden;width:100%;height:8px;font-size:10pt;font-family:arial">';

```

```

        if(strSelectedID != "") strHTML += ("<div
onMouseDown=ToggleCombo()>" + comborows[strSelectedID] + "</div>");
        strHTML += '</TD>';
        strHTML += '<TD style="text-overflow:clip;
overflow:hidden;height:8px"><div
onMouseDown="this.style.borderColor=\ 'inset\ ' ;ToggleCombo()"
onMouseUp="this.style.borderColor=\ 'outset\ ' " style="text-overflow:clip;
overflow:hidden;position:relative;width:16px;height:18px;border-style:outset;border-
width:2px;background-color:#D4D0C8"></div>';
        strHTML += '</table>';

        return strHTML;
    }

    function changeOption(strID){

        if(comborows[strID] != null){
            if(strID != strSelectedID){
                strSelectedID = strID;
                var objHead= document.getElementById("dropdown");
                objHead.innerHTML = createDropDownHeader();
                ToggleCombo(false);
            }
        }
    }

    function selectOption(strID){
        changeOption(strID);
        //top.frames["designer"].mouseDown(strID);
        //top.frames["designer"].mouseUp();

        window.parent.frames["designer"].document.designer.setBorderToControl(strID);

        window.parent.frames["ControlProps"].frames["IFControlProps"].PC_SetPropsWindowTo
Control(strID);
    }

    function createDropDown(){
        var i=0;
        var strHTML = '';

        strHTML += '<table cellpadding=0 cellspacing=0 border=0
style="height:0px;width:100%;border-style:none;border-color:#000000;background-
color:#FFFFFF;z-index:10">';
        for(var strID in comborows){
            if(comborows[strID] != null){
                strHTML += ('<tr><td><div onMouseOver="highlight(this)"
onClick="selectOption(\ ' + strID + '\ ')" onMouseOut="unHighlight(this)"
style="width:100%"> + comborows[strID] + '</div></td></tr>');
                i++;
            }
        }
        for(;i<6;i++){
            strHTML += ('<tr><td><div style="width:100%"><div style="text-
overflow:clip; overflow:hidden;font-size:10pt; font-family:arial;z-
index:10000">&nbsp;</div></div></td></tr>');
        }
        strHTML += '</table>';

        return strHTML;
    }
}

```

```

function ToggleCombo(blnOpenState){
    var objID = document.getElementById("combodata");

    if(blnOpenState != null){
        blnCBState = blnOpenState;
    }else{
        blnCBState = !blnCBState;
    }
    if(blnCBState){

document.getElementById("IFControlProps").style.visibility="hidden";
        var objHead= document.getElementById("dropdown");
        objID.innerHTML = createDropDown(!blnCBState);
        objID.style.pixelTop=objHead.style.pixelTop+21;
        objID.style.pixelLeft=objHead.style.pixelLeft;
        //objID.style.pixelHeight=objHead.style.pixelHeight;
        //objID.style.pixelWidth=objHead.style.pixelWidth;
        objID.style.visibility = "visible";
    }else{
        objID.style.visibility = "hidden";
        objID.innerHTML = '';

document.getElementById("IFControlProps").style.visibility="visible";
    }
}

function highlight(obj){
    obj.style.backgroundColor='#0A246A';
    obj.style.color='#FFFFFF';
}

function unHighlight(obj){
    obj.style.backgroundColor='#FFFFFF';
    obj.style.color='#000000';
}

function addControl(strID,strType){
    if(strID.substring(0,1)=="_")
        strDisplayID="(New)";
    else
        strDisplayID=strID;

    additem(strID,'<div style="text-overflow:clip; overflow:hidden;font-size:10pt; font-family:arial;z-index:10000"><b>' + strDisplayID + '</b> ' + strType + '</div>');
}

function init(){
    var objID = document.getElementById("dropdown");
    objID.innerHTML = createDropDownHeader();

    ToggleCombo(false);
}
</script>

</head>

<body style="border-width:2px;border-style:solid;border-color:#808080;background-color:#D4DOC8" TOPMARGIN="0" LEFTMARGIN="0" MARGINWIDTH="0" MARGINHEIGHT="0">

<div ID="dropdown" style="text-overflow:clip; overflow:hidden;left:0px;top:0px;position:absolute">
</div>

```

```

<div ID=combodata style="visibility:hidden;text-overflow:clip;
overflow:auto;position:absolute;height:100px;width:100%;border-width:1px;border-
style:solid;;border-color:#000000">
</div>
<br>
<br>

<?php
$vs = urlencode(viewstatetext());
?>

<IFRAME src="<?php print
$application_url_location;?>/DesignerControlProperties.php?id=<?php print $id;
?>&__vs__=<?php print $vs?>" ID="IFControlProps" name="IFControlProps"
style="visibility:visible;height:100%;width:100%;top:150px;left:0px;background-
color:#999999">

</body>
</html>
<?php
//*****
//          File Name: DesignerDesigner.php
//*****

    include 'appconfig.php';
    include 'sql.php';
?>

<html>
<head>
<meta NAME="GENERATOR" Content="Microsoft Visual Studio 6.0">
<title></title>

<script language="JavaScript">

<?php
    include 'WebDesigner2.js';
?>

    var controlCount=0;
    var screenID='';

    function DeleteControl(strControlID){
        var objControl = document.getElementById(strControlID);
        if(objControl != null){
            MO_arrControls[strControlID]["deleted"]=1;
            objControl.style.visibility="hidden";
        }
    }

    function CopyControl(strControlID){

        var strNewID = "newfield_"+controlCount;
        var strType = MO_arrControls[strControlID]["type"]

        drag.loadControl('group0',strNewID,strType,true,true);

        top.frames["topframe"].frames["ControlProps"].addControl(strNewID,strType);

        for(var strControlProp in MO_arrControls[strControlID]["PROPERTIES"]){
            var strVal =
MO_arrControls[strControlID]["PROPERTIES"][strControlProp]["value"];

```

```

        top.frames["topframe"].frames["ControlProps"].frames["IFControlProps"].LoadProperty(strType, strNewID, strControlProp, strVal);
        drag.saveProperty(strNewID, strControlProp, strVal);
    }

    drag.saveProperty(strNewID, "top", "0");
    drag.saveProperty(strNewID, "left", "0");

    MO_RaiseEvent("init", strNewID);

    controlCount++;
}

function AddControl(strControl){

    drag.loadControl("group0", "newfield_"+controlCount, strControl, true, true);

    top.frames["topframe"].frames["ControlProps"].addControl("newfield_"+controlCount, strControl);
    MO_RaiseEvent("init", "newfield_"+controlCount);

    top.frames["topframe"].frames["ControlProps"].frames["IFControlProps"].LoadProperty(strControl, "newfield_"+controlCount, 'height', '50');

    top.frames["topframe"].frames["ControlProps"].frames["IFControlProps"].LoadProperty(strControl, "newfield_"+controlCount, 'width', '50');

    top.frames["topframe"].frames["ControlProps"].frames["IFControlProps"].LoadProperty(strControl, "newfield_"+controlCount, 'top', '0');

    top.frames["topframe"].frames["ControlProps"].frames["IFControlProps"].LoadProperty(strControl, "newfield_"+controlCount, 'left', '0');
    drag.saveProperty("newfield_"+controlCount, "height", "50");
    drag.saveProperty("newfield_"+controlCount, "width", "50");
    drag.saveProperty("newfield_"+controlCount, "top", "0");
    drag.saveProperty("newfield_"+controlCount, "left", "0");

    controlCount++;

}

function formInit(){

    drag.routeBack = RouteBack;

    drag.init();
    loadControls();

    drag.initControls();

    selectSnapGrid(4);

}

function setMargins(l,r,t,b){
    drag.setMargins(l,r,t,b);
}

function doScroll(){

```

```

        var objRuler = top.frames["ruler"]
        if(objRuler != null){
            objRuler.setLeft(document.body.scrollLeft);
        }
    }

    function selectSnapGrid(v){
        drag.selectSnapGrid(v,"Images/");
    }

    function SubmitForm(strAction){
        drag.submit(strAction);
    }

    function
RouteBack(strControlType,strControlID,strPropName,strPropValue,strFromPropWindow){
        if(strControlID=="Screen"){
            strControlID = screenID;
        }

        top.frames["topframe"].frames["ControlProps"].frames["IFControlProps"].PC_SetProp
erty("designer",strControlID,strPropName,strPropValue);
    }

    function sendEvent(strID,strPropName,strPropValue){
        drag.raiseEvent("onChange",strID,strPropName,strPropValue,"Y");
    }

</script>
</head>

<?php
if (strstr($_SERVER['HTTP_USER_AGENT'],'MSIE')){
?>
<body ID="DESIGNER_BODY" style="border-width:2px;border-style:solid;border-
color:#808080;background-color:#FFFFFF">

<?php
}else{
?>

<body ID="DESIGNER_BODY" style="background-color:#FFFFFF">

<?php
}
include 'DesignerControls.php';
?>

</body>
</html>

<?php
//*****
//          File Name: DesignerFooter.php
//*****

include 'appconfig.php';
include 'sql.php';

$wid = $_GET["id"];
$savedCtrls = array();

```



```

$db = odbc_connect($viewstate['connectstring'], "", "", SQL_CUR_USE_ODBC);

$saved=false;

if(isset($_POST['act'])){
    $action = $_POST['act'];
    switch($action){
        case "save":
            if(isset($_POST['dat'])){
                $data = $_POST['dat'];
                //print $data;
                saveData2($data);
                $saved=true;
                //saveData();
            }
            break;
    }
}

//$sql=SQL_SP_GenerateSchema($wid);
//$result=odbc_exec($db,$sql);
odbc_close($db);

function saveData2($data){
    global $wid;

    $d1= "<1>";
    $d2= "<2>";
    $d3= "<3>";
    $d4= "<4>";
    $d5= "<5>";

    $globalvalues = split($d1,$data);
    $controls = split($d2,$globalvalues[1]);
    foreach ( $controls as $control ){
        if (strlen($control) > 0){
            print ' {'.$control.'} ';

            $controlvalues=split($d3,$control);
            //print $control."\n".$controlvalues[3]."\n";
            $controlID = $controlvalues[0];
            $controlType = $controlvalues[1];

            $controlexists = $controlvalues[2];
            $controlprops=split($d4,$controlvalues[3]);
            switch($controlexists){
                case "EXISTS":
                    foreach ( $controlprops as $prop ){
                        if (strlen($prop) > 0 ){

                            $controlproppair=split($d5,$prop);

                            $controlPropID =
                            $controlPropValue =
                            $webControlPropID =
                            if (strlen($webControlPropID)
                            > 0 ){
                                UpdateControlProperty($webControlPropID,$controlPropValue);
                            }else{

```

```

                                                    if
(strlen($controlPropValue) > 0 ){
    CreateControlProperty($wid,$controlID,$controlPropID,$controlPropValue);
}
}
}
break;
case "NEW":
    $controlID=CreateControl($wid,$controlType);
    foreach ( $controlprops as $prop ){
        $controlproppair=split($d5,$prop);
        $controlPropID = $controlproppair[0];
        if (strlen($controlPropID)>0){
            $controlPropValue = '';

            if(sizeof($controlproppair)>1){
                $controlPropValue =
                $controlproppair[1];
            }

            CreateControlProperty($wid,$controlID,$controlPropID,$controlPropValue);
        }
    }
    break;
case "DELETED":
    if( (strlen($controlID) > 0) &&
    (substr($controlID,0,1) != "_") ){
        DeleteControl($controlID);
    }
    break;
}
}
}
}

function UpdateControlProperty($webControlPropID,$controlPropValue){
    global $db;

    $sql = SQL_ReportDesignerFooter_16($webControlPropID,$controlPropValue);
    //print $sql."\n";
    odbc_exec($db,$sql);
}

function CreateControlProperty($wid,$controlID,$controlPropID,$controlPropValue){
    global $db;

    $sql = SQL_GetNextID('WebPageControlProp!');
    $result=odbc_exec($db,$sql);
    $lngID = odbc_result($result,"NewID");

    $sql =
SQL_ReportDesignerFooter_14($lngID,$controlID,$controlPropID,$controlPropValue);

    print $sql."\n";
    odbc_exec($db,$sql);
}

function CreateControl($wid,$controlType){
    global $db;

```

```

        $sql = SQL_ReportDesignerFooter_3($controlType);
        $result=odbc_exec($db,$sql);
        $lngControlTypeID = odbc_result($result,"ID");

        $sql = SQL_GetNextID('WebPageControl');
        $result=odbc_exec($db,$sql);
        $lngID = odbc_result($result,"NewID");

        $sql = SQL_ReportDesignerFooter_4($lngID,$wid,$lngControlTypeID);
        print $sql."\n";
        odbc_exec($db,$sql);

        return $lngID;
    }

    function DeleteControl($controlID){
        global $db;

        $sql=SQL_ReportDesignerFooter_17($controlID);
        print $sql."\n";
        odbc_exec($db,$sql);

        $sql=SQL_ReportDesignerFooter_15($controlID);
        print $sql."\n";
        odbc_exec($db,$sql);
    }

    function DebugPrint($str){
        print $str."\n";
    }
?>

<html>
<head>
<script language="JavaScript">
    function Back(){
<?php

//print $window_open;
?>
    }

    function SubmitData(strAction,strData){
        document.frm.dat.value = strData;
        document.frm.act.value = strAction;
        document.frm.submit();
    }

    function saveData(){
        var strData = window.parent.frames["designer"].packData();
        //alert(strData);
        document.frm.dat.value = strData;
        document.frm.act.value = "save";
        document.frm.submit();
    }

    function DisplayDebug(){
        window.parent.frames["ControlProps"].DisplayDebug();
    }

```

```

function DisplayDOM(){
    window.parent.frames["ControlProps"].DisplayDOM();
}

function View(){
    window.open('GenerateWebPage.php?id=<?php print $wid; ?>','newwindow');
}

function saved(){
    <?php if ($saved){ ?>
        document.frm.act.value="";
        document.frm.dat.value="";
        document.frm.target="_top";
        document.frm.action="Designer.php?id=<?php print $wid ?>";
        document.frm.submit();
        alert('saved');
    <?php } ?>
}
</script>
</head>
<body bgcolor="#CCCCCC" onLoad="saved()">
<form name="frm" method=post action="DesignerFooter.php?id=<?php print $wid ?>">
<input type="hidden" name="act">
<input type="hidden" name="dat">

<table>
<tr>
<td><input type="button" value="Save" onClick="saveData()"></td>
<td><input type="button" value="View" onClick="View()"></td>
<td><input type="button" value="Delete"></td>
<td><input type="button" value="Back" onClick="Back()"></td>
<!-- td><input type="button" value="Debug" onClick="DisplayDebug()"></td -->
<!-- td><input type="button" value="DOM" onClick="DisplayDOM()"></td -->
</tr>
</table>
<?php viewstate() ?>
</form>
<?php
?>

<!-- trigger download of swing library if needed -->
<!-- object style="visibility:hidden"
classid="clsid:8AD9C840-044E-11D1-B3E9-00805F499D93"
codebase="http://java.sun.com/products/plugin/autodl/jinstall-1_4-windows-
i586.cab#Version=1,4,0,0"
width=0 height=0>
<param name="code" value="">
<param name="codebase" value="">
</object>
<EMBED

    type="application/x-java-applet;version=1.4"
    WIDTH = "0" HEIGHT = "0"
    scriptable=true
    pluginspage="http://java.sun.com/products/plugin/index.html#download">
<NOEMBED>

</NOEMBED>
</EMBED -->

</BODY>
</html>
<?php
//*****

```

```

//          File Name: DesignerInfo.php
//*****

    include 'appconfig.php';
    include 'sql.php';

    $sql = SQL_DesignerInfo_1($id);
    $result=odbc_exec($db,$sql);
    $page_name= "";
    if(odbc_fetch_row($result)){
        $page_name=odbc_result($result,"PageName");
    }

?>

<html>
<body TOPMARGIN="0" LEFTMARGIN="0" MARGINWIDTH="0" MARGINHEIGHT="0" style="background-
color:#D4DOC8; font-family:arial;font-size:8pt">
<b>&nbsp;&nbsp; Web Application Form:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<i><?php print $page_name?></i></b>
</body>
</html>

<?php
//*****
//          File Name: DesignerToolbar.php
//*****

    include 'appconfig.php';

    $vs = urlencode(viewstatetext());

?>

<html>
<head>
<script>

function toolbar_mouseup(b){
    b.style.borderStyle="outset";
}

function toolbar_mousedown(b){
    b.style.borderStyle="inset";
}

function saveForm(){
    //window.parent.frames["Footer"].saveData();
    window.parent.frames["ControlProps"].frames["IFControlProps"].PC_SaveData();
}

function viewForm(){
    window.open('GenerateWebPage.php?lastpageid=0&id=<?php print
$_GET['id']?>&siteid=<?php print $viewstate['siteid']?>', 'newwindow')
}

function SetPropertyOnCurrentCtl(strPropName,strPropValue){
    window.parent.frames["ControlProps"].frames["IFControlProps"].PC_ChangePropertyCu
rrentControl(strPropName,strPropValue);
}

```

```

function TogglePropertyOnCurrentCtl(strPropName){
    window.parent.frames["ControlProps"].frames["IFControlProps"].PC_TogglePropertyCu
rrentControl(strPropName);
}

function CopyCurrentControl(){
    window.parent.frames["ControlProps"].frames["IFControlProps"].PC_CopyControl();
}

function DeleteCurrentControl(){
    window.parent.frames["ControlProps"].frames["IFControlProps"].PC_DeleteCurrentCon
trol();
}

function changeFontIndex(strFontName){
    for(var i=0; i < document.frm.cmbFontFamily.options.length; i++){
        if(document.frm.cmbFontFamily.options[i].text == strFontName){
            document.frm.cmbFontFamily.selectedIndex = i;
            return;
        }
    }
}

function goback(){
    document.frm.action="WebPages.php";
    document.frm.target="_top";
    document.frm.submit();
}

</script>
</head>
<body TOPMARGIN="0" LEFTMARGIN="0" MARGINWIDTH="0" MARGINHEIGHT="0" style="background-
color:#D4D0C8;border-width:2px;border-style:solid;border-color:#808080">
<form name="frm" method="POST">

<?php
viewstate();
?>

<table border=0 cellspacing=0 cellpadding=2 width=100% >
<tr>
    <td style="font-size:8pt;font-weight: 700;font-family:arial"><i><b><?php print
$appname; ?></b></i> Page Designer &copy; 2003</td>
</tr>
</table>

<table border=1 cellspacing=0 cellpadding=2>
<tr>
    <td
onMouseOver="this.style.borderColor='outset';this.style.borderColor='#FFFFFF'"
onMouseOut="this.style.borderColor='solid';this.style.borderColor='#D4D0C8'"
onMouseUp="toolbar_mouseup(this);viewForm()" onMouseDown=toolbar_mousedown(this)
style="background-color:#D4D0C8;border-style:solid;border-width:2px;border-
color:#D4D0C8">&nbsp;</td>
    <td
onMouseOver="this.style.borderColor='outset';this.style.borderColor='#FFFFFF'"
onMouseOut="this.style.borderColor='solid';this.style.borderColor='#D4D0C8'"
onMouseUp="toolbar_mouseup(this);saveForm()" onMouseDown=toolbar_mousedown(this)
style="background-color:#D4D0C8;border-style:solid;border-width:2px;border-
color:#D4D0C8"></td>
    <td
onMouseOver="this.style.borderColor='outset';this.style.borderColor='#FFFFFF'"

```

```

onMouseOut="this.style.borderColor='solid';this.style.borderColor='#D4D0C8'"
onMouseUp="toolbar_mouseup(this);goback()" onMouseDown=toolbar_mousedown(this)
style="background-color:#D4D0C8;border-style:solid;border-width:2px;border-
color:#D4D0C8"></td>
</tr>
</table>

```

```

<table border=1 cellspacing=0 cellpadding=2>
<tr>
    <td colspan=2 style="height:12px"
onMouseOver="this.style.borderColor='outset';this.style.borderColor='#FFFFFF'"
onMouseOut="this.style.borderColor='solid';this.style.borderColor='#D4D0C8'"
style="background-color:#D4D0C8;border-style:solid;border-width:2px;border-
color:#D4D0C8">
        <select name="cmbFontFamily" onChange="SetPropertyOnCurrentCtl('font-
family',this.options[this.selectedIndex].value)">
            <option></option>
            <option value="arial">Arial</option>
            <option value="times">Times</option>
            <option value="wingdings">Wingdings</option>
        </select>
    </td>

    <td style="height:12px"
onMouseOver="this.style.borderColor='outset';this.style.borderColor='#FFFFFF'"
onMouseOut="this.style.borderColor='solid';this.style.borderColor='#D4D0C8'"
onMouseUp=toolbar_mouseup(this) onMouseDown=toolbar_mousedown(this) style="background-
color:#D4D0C8;border-style:solid;border-width:2px;border-color:#D4D0C8">
        <select onChange="SetPropertyOnCurrentCtl('font-
size',this.options[this.selectedIndex].text+'pt')">
            <option>8</option>
            <option>9</option>
            <option>10</option>
            <option>11</option>
            <option>12</option>
            <option>14</option>
            <option>16</option>
            <option>18</option>
            <option>20</option>
            <option>22</option>
            <option>24</option>
            <option>26</option>
        </select>
    </td>

    <td
onMouseOver="this.style.borderColor='outset';this.style.borderColor='#FFFFFF'"
onMouseOut="this.style.borderColor='solid';this.style.borderColor='#D4D0C8'"
onMouseUp="toolbar_mouseup(this);TogglePropertyOnCurrentCtl('font-weight')"
onMouseDown=toolbar_mousedown(this) style="background-color:#D4D0C8;border-
style:solid;border-width:2px;border-color:#D4D0C8"></td>

    <td
onMouseOver="this.style.borderColor='outset';this.style.borderColor='#FFFFFF'"
onMouseOut="this.style.borderColor='solid';this.style.borderColor='#D4D0C8'"
onMouseUp="toolbar_mouseup(this);TogglePropertyOnCurrentCtl('font-style')"
style="background-color:#D4D0C8;border-style:solid;border-width:2px;border-
color:#D4D0C8"></td>

    <td
onMouseOver="this.style.borderColor='outset';this.style.borderColor='#FFFFFF'"
onMouseOut="this.style.borderColor='solid';this.style.borderColor='#D4D0C8'"
onMouseUp="toolbar_mouseup(this);TogglePropertyOnCurrentCtl('text-decoration')"

```

```

style="background-color:#D4D0C8;border-style:solid;border-width:2px;border-
color:#D4D0C8"></td>

<td
onMouseOver="this.style.borderColor='outset';this.style.borderColor='#FFFFFF'"
onMouseOut="this.style.borderColor='solid';this.style.borderColor='#D4D0C8'"
onMouseUp="toolbar_mouseup(this);SetPropertyOnCurrentCtl('text-align','left')"
style="background-color:#D4D0C8;border-style:solid;border-width:2px;border-
color:#D4D0C8"></td>
<td
onMouseOver="this.style.borderColor='outset';this.style.borderColor='#FFFFFF'"
onMouseOut="this.style.borderColor='solid';this.style.borderColor='#D4D0C8'"
onMouseUp="toolbar_mouseup(this);SetPropertyOnCurrentCtl('text-align','center')"
style="background-color:#D4D0C8;border-style:solid;border-width:2px;border-
color:#D4D0C8"></td>
<td
onMouseOver="this.style.borderColor='outset';this.style.borderColor='#FFFFFF'"
onMouseOut="this.style.borderColor='solid';this.style.borderColor='#D4D0C8'"
onMouseUp="toolbar_mouseup(this);SetPropertyOnCurrentCtl('text-align','right')"
style="background-color:#D4D0C8;border-style:solid;border-width:2px;border-
color:#D4D0C8"></td>

<td style="width:50px">&nbsp;  </td>

<td
onMouseOver="this.style.borderColor='outset';this.style.borderColor='#FFFFFF'"
onMouseOut="this.style.borderColor='solid';this.style.borderColor='#D4D0C8'"
onMouseUp="toolbar_mouseup(this);CopyCurrentControl()" style="background-
color:#D4D0C8;border-style:solid;border-width:2px;border-color:#D4D0C8"></td>
<td
onMouseOver="this.style.borderColor='outset';this.style.borderColor='#FFFFFF'"
onMouseOut="this.style.borderColor='solid';this.style.borderColor='#D4D0C8'"
onMouseUp="toolbar_mouseup(this);DeleteCurrentControl()" style="background-
color:#D4D0C8;border-style:solid;border-width:2px;border-color:#D4D0C8"></td>

</tr>

</table>

<input type="hidden" name="act">
<input type="hidden" name="dat">
</form>

```

```

</body>
</html>
<?php
//*****
//          File Name: GenerateWebPage.php
//*****
$securepage=false;
include 'appconfig.php';
include 'sql.php';

if (isset($_GET["siteid"])){
    $viewstate['siteid']=$_GET["siteid"];
}
if (!isset($viewstate['siteid'])){
    print 'site not found';
    exit;
}

```



```

if(!isset($viewstate['connectstring'])){
    print 'site not found';
    exit();
}

$fromid="0";
if (isset($_GET["fromid"])){
    $fromid = $_GET["fromid"];
}
if($id=="0"){
    $id=$fromid;
}
$kv="0";
if (isset($_GET["kv"])){
    $kv = $_GET["kv"];
}

if (isset($_GET["ac"])){
    $ac = $_GET["ac"];
    switch($ac){
        case "Add/Update":
            RTC_AddFormFields($fromid,$kv);
            $viewstate['webpagedata_'].$fromid] = $_POST;
            break;
        case "GridStart":
            $ctlid=$_GET["gridctlid"];
            $gridrow=$_GET["gridrow"];
            $viewstate['gridrow'].$ctlid] = $gridrow;
            break;
        case "Validation":
            RTC_Validate($fromid);
            break;
        case "Delete":
            $cid=$_GET["cid"];
            RTC_DeleteRecord($cid);
            break;
        case "new":
            if(isset($viewstate['webpagedata_'].$id)){
                unset($viewstate['webpagedata_'].$id]);
            }
            break;
        case "Nothing":
            break;
    }
}

}

$sql = SQL_GenerateWebPage_8($id,'Screen','RequireValidation');
//print $sql;
$result=odbc_exec($db,$sql);
if(odbc_fetch_row($result)){
    $rv=odbc_result($result,"Val");
    if($rv=="Y"){
        $valid="N";
        if(isset($viewstate['validated'])){
            if($viewstate['validated'] == "Y"){
                $valid="Y";
            }
        }
        if($valid=="N"){
            $sql =
SQL_GenerateWebPage_8($id,'Screen','ValidationForm');
            $id="0";
            $result=odbc_exec($db,$sql);

```

```

        if(odbc_fetch_row($result)){
            $form = odbc_result($result,"Val");
            if(strlen($form)>0){
                $sql = SQL_GenerateWebPage_2($form);
                $result=odbc_exec($db,$sql);
                if(odbc_fetch_row($result)){
                    $sid=odbc_result($result,"ID");
                }
            }
        }
    }
}

RTC_outputHTML("");
RTC_outputHTML("<HTML>");
RTC_outputHTML("<HEAD>");
RTC_outputHTML("<!-- Table ID: ".$kv." -->");
RTC_outputHTML("<Title>WebApper Generator</Title>");
RTC_outputHTML("<meta http-equiv='Content-Type' content='text/html; charset=windows-1252'>");
RTC_outputHTML("<meta name='GENERATOR' content='WebApper v1.0'>");
RTC_outputHTML("<SCRIPT>");
RTC_outputHTML("var fromid=".$sid.");");
RTC_outputHTML("function buttonAction(strType,lngWPID,xtraparams){");
RTC_outputHTML("    if(lngWPID=='0') lngWPID=fromid;");
RTC_outputHTML("    if(xtraparams==null) xtraparams='';");
RTC_outputHTML("    document.frm.action='GenerateWebPage.php?fromid='+fromid+'&id='+lngWPID+'&kv=".$kv
v."&ac="+strType+xtraparams;");
RTC_outputHTML("    document.frm.submit();");
RTC_outputHTML("}");
RTC_outputHTML("function gridButtonAction(strType,lngWPID,kv,xtraparams){");
RTC_outputHTML("    if(lngWPID=='0') lngWPID=fromid;");
RTC_outputHTML("    if(xtraparams==null) xtraparams='';");
RTC_outputHTML("    document.frm.action='GenerateWebPage.php?id='+lngWPID+'&kv="+kv+'&ac="+strType+x
raparams;");
RTC_outputHTML("    document.frm.submit();");
RTC_outputHTML("}");
RTC_outputHTML("function GridNext(ctlid,startrow){");
RTC_outputHTML("    buttonAction('GridStart','.$sid.','&gridctlid='+ctlid+'&gridrow='+startrow);");
RTC_outputHTML("}");
RTC_outputHTML("</SCRIPT>");
RTC_outputHTML("</HEAD>");

RTC_outputHTML("<BODY>");
RTC_outputHTML("<FORM NAME=frm METHOD=POST Action=' ">");
$viewstate['lastpageid']=$sid;
RTC_outputHTML(viewstatehtmltext());
RTC_outputHTML(RTC_GetControls($sid,$kv,0,0,0));
RTC_outputHTML("</FORM>");
RTC_outputHTML("</BODY>");
RTC_outputHTML("</HTML>");

odbc_close($db);

function RTC_outputHTML($HTML){
    print $HTML."\\n";
}

function RTC_GetControls($webpageid,$kv,$leftoffset,$stopoffset,$level){

```

```

$CTLSHTML="";
global $db;

if($level==0){
    $dataarr = RTC_GetDataFromWebPageTable($webpageid,$kv,false);
}else{
    $dataarr = RTC_GetDataFromWebPageTable($webpageid,$kv,true);
}

$sql = SQL_GenerateWebPage_1($webpageid);

$result=odbc_exec($db,$sql);
while(odbc_fetch_row($result)){
    $HTML="";
    $cid=odbc_result($result,"ID");
    $ct=odbc_result($result,"ControlType");
    $Props = RTC_GetProps($cid,$dataarr,$leftoffset,$stopoffset);
    $foo = "\$HTML =
RTC_". $ct. "(\$dataarr,\$webpageid,\$cid,\$Props,\$level);";
    if($ct=='Label'){
        //print $sql;
        //PrintProps($Props);
        //print '_____'. $foo. '_____';
    }
    eval($foo);
    $CTLSHTML .= ($HTML."\\n");
}

return $CTLSHTML;
}

function RTC_Screen($dataarr,$webpageid,$cid,$Props,$level){

$HTML = "";

if($level==0){
    $HTML="<!-- no body properties -->";

    if(strlen($Props["style"]) >0){
        $HTML = '<style type="text/css">';
        $HTML .= 'body { %%style%% }';
        $HTML .= '</style>';
    }

    $HTML = RTC_GenericReplace($HTML,$Props);
}

return $HTML;
}

function RTC_Label($dataarr,$webpageid,$cid,$Props,$level){

//PrintProps($Props);

$strandot = '<A HREF="images/transdot.gif"></A>';

$HTML= '<DIV STYLE="POSITION:absolute; border-style:none; border-width:
0px; overflow: visible;%%style%%">%%Text%%%datavalue%%'. $strandot. '</DIV>';

```

```

        $HTML = RTC_GenericReplace($HTML,$Props);

        return $HTML;
    }

    function RTC_Hyperlink($dataarr,$webpageid,$cid,$Props,$level){
        if (isset($Props['datavalueurl'])){
            if (strlen($Props['datavalueurl'])){
                $Props['Address'] = $Props['datavalueurl'];
            }
        }

        if (isset($Props['Address'])){
            $Props['Address'] = RTC_GetURL($Props['Address']);
        }

        $HTML= '<A HREF="%%Address%%" target="%%Target%%"
STYLE="POSITION:absolute; border-style:none; border-width: 0px; overflow:
visible;%%style%%">%%Text%%datavalue%%</A>';

        $HTML = RTC_GenericReplace($HTML,$Props);

        return $HTML;
    }

    function RTC_Submit($dataarr,$webpageid,$cid,$Props,$level){
        global $db;

        $Props["responseid"] = "0";

        //PrintProps($Props);

        if (strlen($Props["ResponsePage"])){
            $sql = SQL_GenerateWebPage_2($Props["ResponsePage"]);
            $result=odbc_exec($db,$sql);
            if(odbc_fetch_row($result)){
                $wid = odbc_result($result,"ID");
                $Props["responseid"] = $wid;
            }
        }

        $HTML = '<INPUT STYLE="POSITION: absolute;font-size:8pt; z-
index:0;%%style%%" TYPE="BUTTON" VALUE="%%Text%%"
onClick="buttonAction(\'%%action%%\',\'%%responseid%%\')">';

        $HTML = RTC_GenericReplace($HTML,$Props);

        return $HTML;
    }

    function RTC_Combo($dataarr,$webpageid,$cid,$Props,$level){

        $Props["FieldName"] = strtolower($Props["FieldName"]);

        if($Props["FieldName"] != ""){
            $datavalue = $dataarr[$Props["FieldName"]];
            $Props["datavalue"]=$datavalue;
            $Props["options"] = RTC_GetOptionList($Props);
        }else{
            $Props["options"] = "";
        }
    }

```

```

        $HTML='<SELECT NAME="%%FieldName%%" STYLE="POSITION:absolute; border-
style:none; border-width: 0px; border-color: gray; font-size: 8pt; overflow:
visible;%%style%%">%%options%%</SELECT>';

        $HTML = RTC_GenericReplace($HTML,$Props);

        return $HTML;
    }

    function RTC_List($dataarr,$webpageid,$cid,$Props,$level){

        $Props["FieldName"] = strtolower($Props["FieldName"]);
        if ($Props["FieldName"] != ""){
            $datavalue = $dataarr[$Props["FieldName"]];
            $Props["datavalue"]=$datavalue;
            $Props["options"] = RTC_GetOptionList($Props);
        }else{
            $Props["options"] = "";
        }

        $HTML='<SELECT MULTIPLE NAME="%%FieldName%%" STYLE="POSITION:absolute;
border-style:none; border-width: 0px; border-color: gray; font-size: 8pt; overflow:
visible;%%style%%">%%options%%</SELECT>';

        $HTML = RTC_GenericReplace($HTML,$Props);

        return $HTML;
    }

    function RTC_Text($dataarr,$webpageid,$cid,$Props,$level){

        $HTML='<INPUT TYPE="TEXT" VALUE="%%datavalue%%" NAME="%%FieldName%%"
STYLE="POSITION: absolute;vertical-align: middle;%%style%%">';

        $HTML = RTC_GenericReplace($HTML,$Props);

        return $HTML;
    }

    function RTC_Check($dataarr,$webpageid,$cid,$Props,$level){

        $Props['checked'] = "";
        $Props['chkval'] = "";
        $Props['unchkval'] = "";

        $Props["FieldName"] = strtolower($Props["FieldName"]);
        if ($Props["FieldName"] != ""){
            $datavalue = $dataarr[$Props["FieldName"]];
            $Props["datavalue"]=$datavalue;
        }else{
            $Props["datavalue"]="";
        }

        if(isset($Props['ValueList'])){
            $v1 = $Props['ValueList'];
            if(strlen($v1) > 0 ){
                $values = split("\\|",$v1);
                if(strlen($datavalue) == 0){
                    print 'no data value';
                    $Props['datavalue']=$values[0];
                }
                $Props['unchkval'] = $values[0];
                $Props['chkval'] = $values[1];
                if($values[1] == $datavalue){

```

```

        $Props['checked'] = "checked";
    }
}

// $Props['onClick']="if(this.checked) {
document.frm.%%FieldName%%.value=\'%%chkval%\'} else
{document.frm.%%FieldName%%.value=\'%%unchkval%\'}";
// $Props['onClick']="";

if($Props["FieldName"] != ""){
    $strClickEvent = 'onClick="if(this.checked) {
document.frm.%%FieldName%%.value=\'%%chkval%\'} else
{document.frm.%%FieldName%%.value=\'%%unchkval%\'}";';
} else {
    $strClickEvent = '';
}

$HTML='<INPUT NAME="%%FieldName%" TYPE=HIDDEN
VALUE="%%datavalue%"><INPUT TYPE="CHECKBOX" '.$strClickEvent.' STYLE="POSITION:absolute;
border-style:none; border-width: 0px; border-color: gray; font-size: 8pt; overflow:
visible;%%style%" %%checked%>';

$HTML = RTC_GenericReplace($HTML,$Props);

return $HTML;
}

function RTC_Radio($dataarr,$webpageid,$cid,$Props,$level){
    $Props["FieldName"] = strtolower($Props["FieldName"]);

    if($Props["FieldName"]){
        $datavalue = $dataarr[$Props["FieldName"]];
    } else {
        $datavalue = "";
    }

    $value = $Props["Value"];
    if($value==$datavalue){
        $Props["checked"]="checked";
    } else {
        $Props["checked"]="";
    }

    $Props["datavalue"]=$datavalue;

    $HTML = '<DIV STYLE="POSITION:absolute; border-style:none; border-width:
0px; border-color: gray; font-size: 8pt; overflow: visible;%%style%">';
    $HTML .= '<INPUT TYPE="RADIO" NAME="%%FieldName%" VALUE="%%Value%"
%%checked%></INPUT>%%Text%';
    $HTML .= '</DIV>';

    $HTML = RTC_GenericReplace($HTML,$Props);

    return $HTML;
}

function RTC_Grid($dataarr,$webpageid,$cid,$Props,$level){
    $HTML="";

    if(isset($Props["UseSubform"])){

```

```

        if($Props["UseSubform"] == "Y"){
            $usesubform = "Y";
        }else{
            $usesubform = "N";
        }
    }else{
        $usesubform = "N";
    }
}

if($usesubform=="N"){
    $HTML = '<DIV STYLE="POSITION: absolute;border: solid #808080
2px;font-size: 8pt; font-weight: 700; text-overflow : clip; overflow :
hidden;%%style%%">'. "\n";
    $HTML .= '%%headerhtml%%'. "\n";
    $HTML = RTC_GenericReplace($HTML,$Props);
    $Props["height"] = ".((int)($Props["height"])-20);
    $HTML .= '<DIV STYLE="POSITION: absolute; border-style:none;
border-width:1px; border-color: gray;font-size: 8pt; font-weight: 700; text-overflow :
clip; overflow : auto;height:%%height%%;width: 100%">'. "\n";
    $HTML .= '<TABLE CELLPADDING=0 CELLSPACING=0 VALIGN=TOP WIDTH=100%
HEIGHT=100% BORDER=0>'. "\n";
    $HTML .= '%%griddata%%';
    $HTML .= '</TABLE>'. "\n";
    $HTML .= '</div>'. "\n";
    $HTML .= '<DIV STYLE="background-color:#D4DOC8;width:100%"><table
border=0 cellpadding=0 cellspacing=0
width=100%><tr>%%addhtml%%nextprevhtml%%</tr></table></DIV>'. "\n";
    $HTML .= '</div>'. "\n";
    $HTML = RTC_GenericReplace($HTML,$Props);
    //$Props["height"] = ".((int)($Props["height"])+30);

    $HTML = RTC_GetGridTableData($dataarr,$Props,$cid,$level,$HTML);
}

else{
    //$HTML = RTC_GetControls($webpageid,$kv)
    $searchfields = array();
    if(strlen($Props["SearchFields"])>0){
        $searchfields = split("\|",$Props["SearchFields"]);
    }
    $where = RTC_GetFilter($searchfields,$dataarr);
    $HTML = RTC_GetSubform($webpageid,$where,$Props,$cid,$level);
}
//PrintProps($Props);
$HTML = RTC_GenericReplace($HTML,$Props);
return $HTML;
}

```

```

function RTC_GetProps($cid,$dataarr,$leftoffset,$topoffset){
    global $db;
    global $lastpageid;
    global $id;
    global $kv;

    $bg_image_flag=0;

    $Props = array();
    $sql = SQL_GenerateWebPage_3($cid);
    $result=odbc_exec($db,$sql);
    $css="";

    while(odbc_fetch_row($result)){
        $cssprop = odbc_result($result,"CssProp");
        $cssname = odbc_result($result,"CssName");
        $propname = odbc_result($result,"PropName");
        $propvalue = odbc_result($result,"PropValue");
    }
}

```

```

$ControlID = odbc_result($result,"ControlID");
$Props['ControlID']=$ControlID;
if($cssprop != 0){
    if(strlen($propvalue)>0){
        if(strlen($css)>0){
            $css .= ";";
        }
        switch($cssname){
            case 'top':
                $propvalue += $topoffset;
                break;
            case 'left':
                $propvalue += $leftoffset;
                break;
            case 'background-image':
                $propvalue = ('URL('.$propvalue.')');
                $bg_image_flag=1;
                break;
            case 'font-size':
                $propvalue .= 'pt';
                break;
        }
        $css .= ($cssname." : ".$propvalue);
    }
}
$Props[$propname]=$propvalue;
}

$Props['style']=$css;
$Props['datavalue'] = "";
$Props['datavalue'] = RTC_GetDataValue($Props,$dataarr,'FieldName');
$Props['datavalueurl'] = "";
$Props['datavalueurl'] = RTC_GetDataValue($Props,$dataarr,'FieldNameURL');

if($bg_image_flag==1){
    $Props['Text']='';
}

return $Props;
}

function RTC_GenericReplace($HTML,$Props){
    //ereg_replace(' ','&nbsp;',$val)

    foreach($Props as $key=>$val){
        $HTML = ereg_replace("%".$key."%", $val, $HTML);
        //$HTML = ereg_replace("%".$key."%", ereg_replace('
','&nbsp;',$val), $HTML);
    }
    return $HTML;
}

function PrintProps($Props){
    print "\n";
    foreach($Props as $key=>$val){
        print $key."=".$val."\n";
    }
    print "\n";
}

function RTC_GetDataByTableName($webpageid,$tableid){

```



```

        global $db;
        $sql = SQL_GenerateWebPage_15($tableid);
        if(odbc_fetch_row($result)){
            $ID = odbc_result($result,"ID");
        }
    }

}

function RTC_GetDataFromWebPageTable($webpageid,$tableid,$nocache){
    global $db;
    global $lastpageid;
    global $kv;
    global $viewstate;

    $tablename="";
    $sql = SQL_GenerateWebPage_4($webpageid);
    $result=odbc_exec($db,$sql);
    if(odbc_fetch_row($result)){
        $tablename = odbc_result($result,"Val");
    }
    if (strlen($tablename) == 0 ){
        $kv="0";
    }

    if($nocache){
        return RTC_GetData($tablename,$tableid,true);
    }else{
        if($webpageid==$lastpageid){
            $viewstate['webpagedata_'].$webpageid] = $_POST;
        }else{
            if($kv != "0"){
                if (!isset($viewstate['tableid_'].$webpageid)){
                    unset($viewstate['webpagedata_'].$webpageid]);
                }else if($viewstate['tableid_'].$webpageid] != $kv){
                    unset($viewstate['webpagedata_'].$webpageid]);
                }
                $viewstate['tableid_'].$webpageid] = $kv;
            }
            if(!isset($viewstate['webpagedata_'].$webpageid)){
                $viewstate['webpagedata_'].$webpageid]=array();
                $viewstate['webpagedata_'].$webpageid] =
                RTC_GetData($tablename,$tableid,false);
            }
        }

        //PrintProps($viewstate['webpagedata_'].$webpageid]);
    }
    return $viewstate['webpagedata_'].$webpageid];
}

}

function RTC_GetData($tablename,$tableid,$nopost){
    global $db;
    global $fromid;
    global $id;
    global $lastpageid;

    $dataarr=array();

    if(strlen($tablename)>0){
        $sql = SQL_GenerateWebPage_5($tablename,$tableid);
        $result=odbc_exec($db,$sql);
    }
}

```

```

        $recordexists = odbc_fetch_row($result);
        for($i=1;$i<=odbc_num_fields($result);$i++){
            $colname = odbc_field_name($result,$i);
            if(($id==$lastpageid) && (!$nopost)){
                $dataarr[strtolower($colname)] =
$_POST[strtolower($colname)];
            }else{
                if($recordexists){
                    $dataarr[strtolower($colname)] =
odbc_result($result,$colname);
                }else{
                    $dataarr[strtolower($colname)] = "";
                }
            }
        }
    }
    return $dataarr;
}

function RTC_GetDataValue($Props,$dataarr,$fieldname){
    if(isset($Props[$fieldname])){
        if(strlen($Props[$fieldname]) > 0){
            if(isset($dataarr[$Props[$fieldname]])){
                return $dataarr[strtolower($Props[$fieldname])];
            }
        }
    }
    return "";
}

function RTC_GetOptionList($Props){
    global $db;
    $options="";

    if(isset($Props["LookupTable"]) && isset($Props["LookupColKey"]) &&
isset($Props["LookupColShow"])){
        if(strlen($Props["LookupTable"]) && strlen($Props["LookupColKey"])
&& strlen($Props["LookupColShow"])){
            $sql = SQL_GenerateWebPage_6($Props["LookupTable"]);
            $result=odbc_exec($db,$sql);
            while(odbc_fetch_row($result)){
                $options .= ('<option
value="'.odbc_result($result,$Props["LookupColKey"]).' " ');

                if(strtolower(odbc_result($result,$Props["LookupColKey"])) ==
strtolower($Props["datavalue"])){
                    $options .= "selected";
                }
                $options .=
('>'.odbc_result($result,$Props["LookupColShow"]));
            }
            return $options;
        }
    }
    return "";
}

function RTC_AddFormFields($wid,$keyvalues){
    global $db;

```

```

$cols = "";
$val = "";

$sql = SQL_GenerateWebPage_8($wid, 'Screen', 'TableName');
$result=odbc_exec($db,$sql);

if(odbc_fetch_row($result)){
    $table = odbc_result($result,"Val");
    $columns = $_POST;
    $sql="";
    if($keyvalues == "0"){
        $sql = SQL_GetNextID($table);
        $result=odbc_exec($db,$sql);
        $keyvalues=0;
        if(odbc_fetch_row($result)){
            $keyvalues=odbc_result($result,"NewID");
        }
        $columns["ID"]=$keyvalues;
        $kv=$keyvalues;

        $sql="Insert Into ".$table."";
        foreach($columns as $key=>$val){
            if($key != '__VIEWSTATE__'){
                if($cols != "") $cols .= ",";
                $cols .= $key;

                if($vals != "") $vals .= ",";
                $vals .= "'".$fixSQL($val)."'";
            }
        }

        $sql .= " ( ".$cols." ) VALUES ( ".$vals." )";

    }else{
        $set="";
        foreach($columns as $key=>$val){
            if($key != '__VIEWSTATE__'){
                if(strlen($set)>0){
                    $set .= ',';
                }
                $set .= ($key."='".$fixSQL($val)."'");
            }
        }
        if(strlen($set) > 0){
            $sql .= ("Update ".$table." Set ".$set." WHERE ID =
".$keyvalues);
        }
        if(strlen($sql) > 0){
            //RTC_outputHTML($sql);
            odbc_exec($db,$sql);
        }
    }
}

function RTC_Validate($wid){
    global $db;
    global $id;
    global $viewstate;

    $vf1="";
    $vf2="";

```

```

$vf3="";
$ilf="";
$slf="";

$sql = SQL_GenerateWebPage_8($wid,'Screen','TableName');
$result=odbc_exec($db,$sql);
if(odbc_fetch_row($result)){
    $table = odbc_result($result,"Val");
    //$columns = RTC_GetColumnList($table);
    $columns = $_POST;

    $sql = SQL_GenerateWebPage_14($wid,'Submit','ValidationField1');
    $result=odbc_exec($db,$sql);
    if(odbc_fetch_row($result)){
        $vf1 = odbc_result($result,"Val");
    }

    $sql = SQL_GenerateWebPage_14($wid,'Submit','ValidationField2');
    $result=odbc_exec($db,$sql);
    if(odbc_fetch_row($result)){
        $vf2 = odbc_result($result,"Val");
    }

    $sql = SQL_GenerateWebPage_14($wid,'Submit','ValidationField3');
    $result=odbc_exec($db,$sql);
    if(odbc_fetch_row($result)){
        $vf3 = odbc_result($result,"Val");
    }

    $sql = SQL_GenerateWebPage_14($wid,'Submit','InvalidLoginForm');
    $result=odbc_exec($db,$sql);
    if(odbc_fetch_row($result)){
        $ilf = odbc_result($result,"Val");
    }

    $sql = SQL_GenerateWebPage_14($wid,'Submit','SuccessLoginForm');
    $result=odbc_exec($db,$sql);
    if(odbc_fetch_row($result)){
        $slf = odbc_result($result,"Val");
    }

    $where="";
    if (strlen($vf1)>0){
        $where .= ($vf1."="."".$columns[$vf1]."' AND ".$vf1." <>
'' ");
    }
    if (strlen($vf2)>0){
        if (strlen($where) > 0){
            $where .= " AND ";
        }
        $where .= ($vf2."="."".$columns[$vf2]."' AND ".$vf2." <>
'' ");
    }
    if (strlen($vf3)>0){
        if (strlen($where) > 0){
            $where .= " AND ";
        }
        $where .= ($vf3."="."".$columns[$vf3]."' AND ".$vf3." <>
'' ");
    }
    if (strlen($where)>0){
        $sql = "SELECT * FROM ".$table." WHERE ".$where;
        $result=odbc_exec($db,$sql);
        if(odbc_fetch_row($result)){
            //successful validation

```

```

        $viewstate['validated'] = 'Y';
        $nextform=$self;
    }else{
        //unsuccessful validation
        $viewstate['validated'] = 'N';
        $nextform=$self;
    }
    $sql = SQL_GenerateWebPage_2($nextform);
    $result=odbc_exec($db,$sql);
    if(odbc_fetch_row($result)){
        $id = odbc_result($result,"ID");
    }
    }
}

function RTC_DeleteRecord($cid){
    global $db;
    global $kv;
    global $id;

    $cols = "";
    $vals = "";

    $sql = SQL_GenerateWebPage_11($cid);
    $result=odbc_exec($db,$sql);

    if(odbc_fetch_row($result)){
        $table = odbc_result($result,"Val");
        $sql = SQL_GenerateWebPage_12($table,$kv);
        odbc_exec($db,$sql);
    }
}

function RTC_GetFilter($searchfields,$dataarr){
    $where="";
    foreach ($searchfields as $searchfield ){
        $fn=ereg_replace('%',' ', strtolower($searchfield));
        if(isset($dataarr[$fn])){
            if(strlen($dataarr[$fn])>0){
                if(strlen($where)>0){
                    $where .= ' AND ';
                }
                $where .= ($fn." like
'".ereg_replace($fn,$dataarr[$fn],$searchfield)."%");
            }
        }
    }

    if(strlen($where)>0){
        $where = ' WHERE '.$where;
    }

    return $where;
}

function RTC_GetGridTableData($dataarr,$Props,$cid,$level,$html_container){
    global $db;
    global $ConnectString;
    $HTML="";
    $row=0;
    global $id;

```

```

global $viewstate;
//global $dataarr;

$HTMLNextPrev = "";

if(isset($Props["LookupTable"])){
    if(strlen($Props["LookupTable"])){
        $table=$Props["LookupTable"];
        $MaxRows="0";
        $wid=0;
        if(isset($Props["EditForm"])){
            if(strlen($Props["EditForm"])){
                $sql =
SQL_GenerateWebPage_9($Props["EditForm"]);
                // $db =
odbc_connect($ConnectString, "", "", SQL_CUR_USE_ODBC);
                $result=odbc_exec($db,$sql);
                if(odbc_fetch_row($result)){
                    $wid = odbc_result($result,"ID");
                }
            }
        }
        if(strlen($Props["SearchFields"])>0){
            $searchfields = split("\|",$Props["SearchFields"]);
            $where = RTC_GetFilter($searchfields,$dataarr);
        }
        if(strlen($where)>0){
            $sql =
SQL_GenerateWebPage_10($Props["LookupTable"],$where);
            $result=odbc_exec($db,$sql);
            if(isset($Props["MaxRows"])){
                if(strlen($Props["MaxRows"])){
                    $MaxRows = $Props["MaxRows"];
                }
            }
            $gridrow=0;
            if(!isset($_GET["gridrow"])){
                unset($viewstate['gridrow'.'. $cid]);
            }
            if(isset($viewstate['gridrow'.'. $cid])){
                $gridrow=$viewstate['gridrow'.'. $cid'];
                if($gridrow>0){
                    while(odbc_fetch_row($result) &&
($row<($gridrow-1))){
                        $row++;
                    }
                    $row++;
                }
            }
            $cols = odbc_num_fields($result);
            //header
            //$HEADERHTML = "<TABLE WIDTH=100% border=0
cellspacing=0 cellpadding=0>\n";

```

```

$HEADERHTML = "<TR>\n";
for($i=1;$i<=odbc_num_fields($result);$i++){
    if(odbc_field_name($result,$i) <> "ID"){
        if($i>1){
            $HEADERHTML .= '<TD
STYLE="width:1px;background-color:#D4D0C8"></TD>'." \n";
        }
        $HEADERHTML .= "        <TD
style=\"color:%%color%%;background-color:#D4D0C8;border-top: outset white 2px;border-
left: outset white 2px;border-right: outset #808080 2px;border-bottom: outset #808080
2px;width:%%tdwidth%%px\">";
        $HEADERHTML .=
odbc_field_name($result,$i);
        $HEADERHTML .= "        </TD>\n";
    }
}
$HEADERHTML .= "</TR>\n";
//$HEADERHTML .= "</TABLE>\n";
//$html_container = ereg_replace("%%headerhtml%%",
$HEADERHTML, $html_container);
$HTML=$HEADERHTML;

$localgridrow=0;
while(odbc_fetch_row($result) &&
(($MaxRows==0)||($row<($MaxRows+$gridrow))) ){
    //while(odbc_fetch_row($result)){

        //detail
        $HTML .= "<TR>\n";
        for($i=1;$i<=odbc_num_fields($result);$i++){
            if(odbc_field_name($result,$i) <>
"ID"){
                if($i>1){
                    $HTML .= '<TD
STYLE="width:1px;background-color:#808080"></TD>'." \n";
                }
                $HTML .= '        <TD
style="color:%%color%%;border-bottom: solid #808080 1px;border-right: solid #808080
1px;width:%%tdwidth%%px">';
                $val =
odbc_result($result,odbc_field_name($result,$i));
                $val="&nbsp;";
                "&nbsp;"; $val);
                // $val = ereg_replace(" ",
                $HTML .= $val;
                $HTML .= "        </TD>\n";
            }
        }
        if(isset($Props["EditForm"])){
            if(strlen($Props["EditForm"])){
                $cols++;
                if($i>1){
                    $HTML .= '<TD
STYLE="width:1px;background-color:#808080"></TD>'." \n";
                }
                $i=2;
            }
            if($localgridrow>0){
                $HTML .= "        <TD
style=\"color:%%color%%;border-bottom: solid #808080 1px;border-right: solid #808080
1px;width:%%tdwidth%%px\">";
            }else{

```

```

$HTML .= " <TD
style=\"color:%%color%%;border-bottom: solid #808080 1px;border-right: solid #808080
1px;border-top: solid #808080 1px;width:%%tdwidth%%px\">;
}
$HTML .= '&nbsp;<a
style="color:%%color%"
href="javascript:gridButtonAction(\'\','. $wid.','.odbc_result($result,"ID").')">Edit</a>'
;
$HTML .= " </TD>\n";
}
}
if(isset($Props["AllowDelete"])){
    if($Props["AllowDelete"]=="Y"){
        $cols++;
        if($i>1){
            $HTML .= '<TD
STYLE="width:1px;background-color:#808080"></TD>'. "\n";
        }
        if($localgridrow>0){
            $HTML .= " <TD
style=\"color:%%color%%;border-bottom: solid #808080 1px;border-right: solid #808080
1px;width:%%tdwidth%%px\">;
        }else{
            $HTML .= " <TD
style=\"color:%%color%%;border-bottom: solid #808080 1px;border-right: solid #808080
1px;border-top: solid #808080 1px;width:%%tdwidth%%px\">;
        }
        $HTML .= '&nbsp;<a
style="color:%%color%" href="javascript:if (confirm(\'Are you sure you want to delete
this row?\'))
gridButtonAction(\'Delete\','. $id.','.odbc_result($result,"ID").',\'&cid='.$cid.'\')">Del
ete</a>'
;
        $HTML .= " </TD>\n";
    }
}
}
$rowse++;
$localgridrow++;
$HTML .= "</TR>\n";
}
if($gridrow >0){
    $HTMLNextPrev .= '<td><a style="background-
color:#D4DOC8;width:100%;POSITION: absolute;top:'. $Props["height"].';font-
size:10pt;color:%%color%"
href="javascript:GridNext('.$cid.','.($MaxRows*((ceil($row/$MaxRows)-1)-1).')">&lt;&lt;
Previous</a></td>'. "\n";
}
if (odbc_num_rows ($result) > $row){
    $HTMLNextPrev .= '<td><a style="background-
color:#D4DOC8;width:100%;POSITION: absolute;top:'. $Props["height"].';font-
size:10pt;color:%%color%" href="javascript:GridNext('.$cid.','. $row.')">Next
&gt;&gt;</a></td>'. "\n";
}
}
if(strlen($html_container) >0){
    $html_container = ereg_replace("%%griddata%%",
$HTML, $html_container);
    if(isset($Props["AllowAdd"])){
        if($Props["AllowAdd"]=="Y"){
            $ADDHTML = '<td><a style="background-
color:#D4DOC8;width:100%;POSITION: absolute;top:'. $Props["height"].';font-
size:10pt;color:%%color%"
href="javascript:gridButtonAction(\'new\','. $wid.',0)">Add</a></td>';

```



```

                                $html_container =
ereg_replace("%addhtml%", $ADDHTML, $html_container);
                                }
                                }else{
                                $html_container=$HTML;
                                }
                                }

                                $html_container = ereg_replace("%griddata%", "", $html_container);
                                $html_container = ereg_replace("%addhtml%", "", $html_container);
                                $html_container = ereg_replace("width:%tdwidth%", "", $html_container);
                                $html_container = ereg_replace("%headerhtml%", "", $html_container);
                                $html_container = ereg_replace("%nextprevhtml%", $HTMLNextPrev,
$html_container);

                                return $html_container;
                                }

function RTC_GetSubform($webpageid,$where,$Props,$cid,$level){
    global $db;
    $formname = $Props["SubformName"];
    $sql = SQL_GenerateWebPage_2($formname);
    $result=odbc_exec($db,$sql);
    $formid = 0;
    if(odbc_fetch_row($result)){
        $formid = odbc_result($result,"ID");
    }

    $seperatesubform='N';
    if(isset($Props["SeperateSubForm"])){
        $seperatesubform=$Props["SeperateSubForm"];
    }
    if($seperatesubform=='Y'){
        return
RTC_GetSubformSeperate($formid,$webpageid,$where,$Props,$cid,$level);
    }

    return
RTC_GetSubformPartOfPage($formid,$webpageid,$where,$Props,$cid,$level);
}

function RTC_GetSubformSeperate($formid,$webpageid,$where,$Props,$cid,$level){
    global $id;
    global $viewstate;

    $url = GetFormURL($formid,$viewstate['siteid'],0);

    $HTML = "\n\n".'<!-- Start of Sub Form -->'. "\n";
    $HTML .= '<!-- '.$url.' -->'. "\n";
    $HTML .= "\n\n".'<IFRAME frameborder="0" style="POSITION:absolute; border-
style:none; border-width: 0px; overflow: visible;%%style%%" src="'.$url.'">';
    $HTML .= "\n\n".'</IFRAME>';
    $HTML .= "\n\n".'<!-- End of Sub Form -->'. "\n";

    $HTML = RTC_GenericReplace($HTML,$Props);

    return $HTML;
}

```

```

function RTC_GetSubformPartOfPage($formid,$webpageid,$where,$Props,$cid,$level){
    global $db;
    global $ConnectionString;
    $HTML="";
    $row=0;
    global $id;
    global $dataarr;

    //if(isset($Props["LookupTable"])){
    //    if(strlen($Props["LookupTable"])){
    //        $MaxRows="0";

        $tablename = '';
        if(isset($Props["LookupTable"])){
            $tablename = $Props["LookupTable"];
        }

        $HTML = "\n\n<!-- Start of Sub Form -->\n";
        $top = $Props["top"];
        if($MaxRows==0){
            $height = $Props["height"];
        }else{
            $height = $Props["height"]/$MaxRows;
        }
        $left = $Props["left"];

        if(strlen($tablename)){
            $sql = SQL_GenerateWebPage_10($tablename,$where);
            $result=odbc_exec($db,$sql);

            if(isset($Props["MaxRows"])){
                if(strlen($Props["MaxRows"])){
                    $MaxRows = $Props["MaxRows"];
                }
            }

            $gridrow=0;
            if(isset($viewstate['gridrow'].$cid)){
                $gridrow=$viewstate['gridrow'].$cid;
                if($gridrow>0){
                    while(odbc_fetch_row($result) &&
($row<($gridrow-1))){
                        $row++;
                    }
                    $row++;
                }
            }
            $start=1;

            while(odbc_fetch_row($result) &&
(($MaxRows==0)||($row<($MaxRows+$gridrow))) ){
                $skv = odbc_result($result,"ID");

                $HTML .=
(RTC_GetControls($formid,$skv,$left,$top,($level+1))."\n");
                $top += $height;
                $row++;
            }
        }else{
            $HTML .=
(RTC_GetControls($formid,0,$left,$top,($level+1))."\n");
        }
    }
}

```

```

        $HTML .= "<!-- End of Sub Form -->\n";

        return $HTML;
    //}
//}
return "";
}

function RTC_GetURL($address){
    global $db;

    $url="";

    if( (substr($address,0,strlen("http")) == "http")||
        (substr($address,0,strlen("mailto")) == "mailto")){
        $url = $address;
    }else if(strpos($address, '@')){
        $url = 'mailto:'. $address;
    }else{
        //must be a local form..
        $sql = SQL_GenerateWebPage_13($address);
        $result=odbc_exec($db,$sql);
        if(odbc_fetch_row($result)){
            $pageid = odbc_result($result,"ID");

            $url = "javascript:gridButtonAction('',".$pageid.",0)";

        }else{
            $url="javascript:alert('Could not find form:
".$address."')";
        }
    }

    return $url;
}

?>

<?php
//*****
//          File Name: GenerateWebPageGetPage.php
//*****

include 'appconfig.php';
include 'sql.php';

function CreateWebPage($ConnectionString){

    $db = odbc_connect($ConnectionString, "", "", SQL_CUR_USE_ODBC);

}

$fromid="0";
if (isset($_GET["fromid"])){

```

```

        $fromid = $_GET["fromid"];
    }
    if($id=="0"){
        $id=$fromid;
    }
    $kv="0";
    if (isset($_GET["kv"])){
        $kv = $_GET["kv"];
    }

    if (isset($_GET["ac"])){
        $ac = $_GET["ac"];
        switch($ac){
            case "Add/Update":
                RTC_AddFormFields($fromid,$kv);
                $_SESSION['webpagedata_'].$fromid] = $_POST;
                break;
            case "GridStart":
                $ctlid=$_GET["gridctlid"];
                $gridrow=$_GET["gridrow"];
                $_SESSION['gridrow'].$ctlid] = $gridrow;
                break;
            case "Validation":
                RTC_Validate($fromid);
                break;
            case "Delete":
                $cid=$_GET["cid"];
                RTC_DeleteRecord($cid);
                break;
            case "new":
                if(isset($_SESSION['webpagedata_'].$id)){
                    unset($_SESSION['webpagedata_'].$id);
                }
                break;
            case "Nothing":
                break;
        }
    }

    $sql = SQL_GenerateWebPage_8($id,'Screen','RequireValidation');
    $result=odbc_exec($db,$sql);
    if(odbc_fetch_row($result)){
        $rv=odbc_result($result,"Val");
        if($rv=="Y"){
            $valid="N";
            if(isset($_SESSION['validated'])){
                if($_SESSION['validated'] == "Y"){
                    $valid="Y";
                }
            }
            if($valid=="N"){
                $sql =
SQL_GenerateWebPage_8($id,'Screen','ValidationForm');
                $id="0";
                $result=odbc_exec($db,$sql);
                if(odbc_fetch_row($result)){
                    $form = odbc_result($result,"Val");
                    if(strlen($form)>0){
                        $sql = SQL_GenerateWebPage_2($form);
                        $result=odbc_exec($db,$sql);
                        if(odbc_fetch_row($result)){
                            $id=odbc_result($result,"ID");
                        }
                    }
                }
            }
        }
    }
}

```

```

    }
}

RTC_outputHTML("");
RTC_outputHTML("<HTML>");
RTC_outputHTML("<HEAD>");
RTC_outputHTML("<!-- Table ID: ".$kv." -->");
RTC_outputHTML("<Title>WebApper Generator</Title>");
RTC_outputHTML('<meta http-equiv="Content-Type" content="text/html; charset=windows-1252">');
RTC_outputHTML('<meta name="GENERATOR" content="WebApper v1.0">');
RTC_outputHTML("<SCRIPT>");
RTC_outputHTML("var fromid=".$id.");");
RTC_outputHTML("function buttonAction(strType,lngWPID,xtraparams){");
RTC_outputHTML("    if(xtraparams==null) xtraparams='';");
RTC_outputHTML("    document.frm.action='GenerateWebPage.php?'.session_name()."."session_id()."&". "f
romid="+fromid+'&id='+lngWPID+'&kv=".$kv."&ac="+strType+xtraparams;");
RTC_outputHTML("    document.frm.submit();");
RTC_outputHTML("}");
RTC_outputHTML("function gridButtonAction(strType,lngWPID,kv,xtraparams){");
RTC_outputHTML("    if(xtraparams==null) xtraparams='';");
RTC_outputHTML("    document.frm.action='GenerateWebPage.php?'.session_name()."."session_id()."&". "i
d="+lngWPID+'&kv='+kv+'&ac="+strType+xtraparams;");
RTC_outputHTML("    document.frm.submit();");
RTC_outputHTML("}");
RTC_outputHTML("function GridNext(ctlid,startrow){");
RTC_outputHTML("    buttonAction('GridStart',".$id.','&gridctlid='+ctlid+'&gridrow='+startrow);");
RTC_outputHTML("}");
RTC_outputHTML("</SCRIPT>");
RTC_outputHTML("</HEAD>");

RTC_outputHTML("<BODY>");
RTC_outputHTML('<FORM NAME=frm METHOD=POST Action="">');
RTC_outputHTML(RTC_GetControls($id,$kv,0,0,0));
RTC_outputHTML("</FORM>");
RTC_outputHTML("</BODY>");
RTC_outputHTML("</HTML>");

odbc_close($db);

function RTC_outputHTML($HTML){
    print $HTML."\\n";
}

function RTC_GetControls($db,$webpageid,$kv,$leftoffset,$stopoffset,$level){
    $CTLSHTML=" ";

    if($level==0){
        $dataarr = RTC_GetDataFromWebPageTable($webpageid,$kv,false);
    }else{
        $dataarr = RTC_GetDataFromWebPageTable($webpageid,$kv,true);
    }

    $sql = SQL_GenerateWebPage_1($webpageid);

    $result=odbc_exec($db,$sql);

```

```

while(odbc_fetch_row($result)){
    $HTML="";
    $cid=odbc_result($result,"ID");
    $ct=odbc_result($result,"ControlType");
    $Props = RTC_GetProps($cid,$dataarr,$leftoffset,$stopoffset);
    $foo = "\$HTML =
RTC_".$ct."(\$dataarr,\$webpageid,\$cid,\$Props,\$level)";
    eval($foo);
    $CTLSHTML .= ($HTML."\n");
}

return $CTLSHTML;
}

function RTC_Screen($db,$dataarr,$webpageid,$cid,$Props,$level){

    $HTML = "";

    if($level==0){
        $HTML="<!-- no body properties -->";

        if(strlen($Props["style"]) >0){
            $HTML = '<style type="text/css">';
            $HTML .= 'body { %%style%% }';
            $HTML .= '</style>';
        }

        $HTML = RTC_GenericReplace($HTML,$Props);
    }

    return $HTML;
}

function RTC_Label($db,$dataarr,$webpageid,$cid,$Props,$level){

    $strandot = '<A HREF="images/transdot.gif"></A>';

    $HTML= '<DIV STYLE="POSITION:absolute; border-style:none; border-width:
Opx; overflow: visible;%%style%%">%%Text%%%datavalue%%'. $strandot. '</DIV>';

    $HTML = RTC_GenericReplace($HTML,$Props);

    return $HTML;
}

function RTC_Hyperlink($db,$dataarr,$webpageid,$cid,$Props,$level){

    if (isset($Props['Address'])){
        $Props['Address'] = RTC_GetURL($Props['Address']);
    }

    $HTML= '<A HREF="%%Address%%" STYLE="POSITION:absolute; border-style:none;
border-width: Opx; overflow: visible;%%style%%">%%Text%%</A>';

    $HTML = RTC_GenericReplace($HTML,$Props);

    return $HTML;
}

function RTC_Submit($db,$dataarr,$webpageid,$cid,$Props,$level){

```

```

$Props["responseid"] = "0";

//PrintProps($Props);

if (strlen($Props["ResponsePage"])){
    $sql = SQL_GenerateWebPage_2($Props["ResponsePage"]);
    $result=odbc_exec($db,$sql);
    if(odbc_fetch_row($result)){
        $wid = odbc_result($result,"ID");
        $Props["responseid"] = $wid;
    }
}

$HTML = '<INPUT STYLE="POSITION: absolute;font-size:8pt; z-
index:0;%%style%%" TYPE="BUTTON" VALUE="%%Text%%"
onClick="buttonAction(\'%%action%%\',\'%%responseid%%\')">';

$HTML = RTC_GenericReplace($HTML,$Props);

return $HTML;
}

function RTC_Combo($db,$dataarr,$webpageid,$cid,$Props,$level){

$Props["FieldName"] = strtolower($Props["FieldName"]);

if($Props["FieldName"] != ""){
    $datavalue = $dataarr[$Props["FieldName"]];
    $Props["datavalue"]=$datavalue;
    $Props["options"] = RTC_GetOptionList($Props);
}else{
    $Props["options"] = "";
}

$HTML='<SELECT NAME="%%FieldName%%" STYLE="POSITION:absolute; border-
style:none; border-width: 0px; border-color: gray; font-size: 8pt; overflow:
visible;%%style%%">%%options%%</SELECT>';

$HTML = RTC_GenericReplace($HTML,$Props);

return $HTML;
}

function RTC_List($db,$dataarr,$webpageid,$cid,$Props,$level){

$Props["FieldName"] = strtolower($Props["FieldName"]);
if ($Props["FieldName"] != ""){
    $datavalue = $dataarr[$Props["FieldName"]];
    $Props["datavalue"]=$datavalue;
    $Props["options"] = RTC_GetOptionList($Props);
}else{
    $Props["options"] = "";
}

$HTML='<SELECT MULTIPLE NAME="%%FieldName%%" STYLE="POSITION:absolute;
border-style:none; border-width: 0px; border-color: gray; font-size: 8pt; overflow:
visible;%%style%%">%%options%%</SELECT>';

$HTML = RTC_GenericReplace($HTML,$Props);

return $HTML;
}

function RTC_Text($db,$dataarr,$webpageid,$cid,$Props,$level){

```

```

$HTML='<INPUT TYPE="TEXT" VALUE="%%datavalue%%" NAME="%%FieldName%%"
STYLE="POSITION: absolute;vertical-align: middle;%%style%%">';

```

```

$HTML = RTC_GenericReplace($HTML,$Props);

```

```

return $HTML;

```

```

}

```

```

function RTC_Check($db,$dataarr,$webpageid,$cid,$Props,$level){

```

```

$Props['checked'] = "";

```

```

$Props['chkval'] = "";

```

```

$Props['unchkval'] = "";

```

```

$Props["FieldName"] = strtolower($Props["FieldName"]);

```

```

if($Props["FieldName"] != ""){

```

```

    $datavalue = $dataarr[$Props["FieldName"]];

```

```

    $Props["datavalue"]=$datavalue;

```

```

}else{

```

```

    $Props["datavalue"]="";

```

```

}

```

```

if(isset($Props['ValueList'])){

```

```

    $vl = $Props['ValueList'];

```

```

    if(strlen($vl) > 0 ){

```

```

        $values = split("\|",$vl);

```

```

        if(strlen($datavalue) == 0){

```

```

            print 'no data value';

```

```

            $Props['datavalue']=$values[0];

```

```

        }

```

```

        $Props['unchkval'] = $values[0];

```

```

        $Props['chkval'] = $values[1];

```

```

        if($values[1] == $datavalue){

```

```

            $Props['checked'] = "checked";

```

```

        }

```

```

    }

```

```

}

```

```

    //$Props['onClick']="if(this.checked) {

```

```

document.frm.%%FieldName%%.value=\'%%chkval%%\' } else

```

```

{document.frm.%%FieldName%%.value=\'%%unchkval%%\'}";

```

```

    //$Props['onClick']="";

```

```

if($Props["FieldName"] != ""){

```

```

    $strClickEvent = 'onClick="if(this.checked) {

```

```

document.frm.%%FieldName%%.value=\'%%chkval%%\' } else

```

```

{document.frm.%%FieldName%%.value=\'%%unchkval%%\'}";

```

```

}else{

```

```

    $strClickEvent = '';

```

```

}

```

```

$HTML='<INPUT NAME="%%FieldName%%" TYPE=HIDDEN

```

```

VALUE="%%datavalue%%"><INPUT TYPE="CHECKBOX" '.$strClickEvent.' STYLE="POSITION:absolute;

```

```

border-style:none; border-width: 0px; border-color: gray; font-size: 8pt; overflow:

```

```

visible;%%style%%" %%checked%%>';

```

```

$HTML = RTC_GenericReplace($HTML,$Props);

```

```

return $HTML;

```

```

}

```

```

function RTC_Radio($db,$dataarr,$webpageid,$cid,$Props,$level){

```



```

$Props["FieldName"] = strtolower($Props["FieldName"]);

if($Props["FieldName"]){
    $datavalue = $dataarr[$Props["FieldName"]];
}else{
    $datavalue = "";
}

$value = $Props["Value"];
if($value==$datavalue){
    $Props["checked"]="checked";
}else{
    $Props["checked"]="";
}

$Props["datavalue"]=$datavalue;

$HTML = '<DIV STYLE="POSITION:absolute; border-style:none; border-width:
0px; border-color: gray; font-size: 8pt; overflow: visible;%%style%%">';
$HTML .= '<INPUT TYPE="RADIO" NAME="%%FieldName%%" VALUE="%%Value%%"
%%checked%%></INPUT>%%Text%%';
$HTML .= '</DIV>';

$HTML = RTC_GenericReplace($HTML,$Props);

return $HTML;
}

function RTC_Grid($db,$dataarr,$webpageid,$cid,$Props,$level){

$HTML="";

if(isset($Props["UseSubform"])){
    if($Props["UseSubform"] == "Y"){
        $usesubform = "Y";
    }else{
        $usesubform = "N";
    }
}else{
    $usesubform = "N";
}

if($usesubform=="N"){
    $HTML = '<DIV STYLE="POSITION: absolute;border: solid #808080
2px;font-size: 8pt; font-weight: 700; text-overflow : clip; overflow :
hidden;%%style%%">'. "\n";
    $HTML .= '%%headerhtml%%'. "\n";
    $HTML = RTC_GenericReplace($HTML,$Props);
    $Props["height"]= " ".((int)$Props["height"])-20);
    $HTML .= '<DIV STYLE="POSITION: absolute; border-style:none;
border-width:1px; border-color: gray;font-size: 8pt; font-weight: 700; text-overflow :
clip; overflow : auto;height:%%height%%;width: 100%>'. "\n";
    $HTML .= '<TABLE CELLSPACING=0 CELLSPACING=0 VALIGN=TOP WIDTH=100%
HEIGHT=100% BORDER=0>'. "\n";
    $HTML .= '%%griddata%%';
    $HTML .= '</TABLE>'. "\n";
    $HTML .= '</div>'. "\n";
    $HTML .= '<DIV STYLE="background-color:#D4D0C8;width:100%><table
border=0 cellspacing=0 cellpadding=0
width=100%><tr>%%addhtml%%nextprevhtml%%</tr></table></DIV>'. "\n";
    $HTML .= '</div>'. "\n";
    $HTML = RTC_GenericReplace($HTML,$Props);
    // $Props["height"] = " ".((int)$Props["height"])+30);

```

```

        $HTML = RTC_GetGridTableData($dataarr,$Props,$cid,$level,$HTML);
    }else{
        //$HTML = RTC_GetControls($webpageid,$kv)
        if(strlen($Props["SearchFields"]>0){
            $searchfields = split("\|",$Props["SearchFields"]);
        }
        $where = RTC_GetFilter($searchfields,$dataarr);
        $HTML = RTC_GetSubform($webpageid,$where,$Props,$cid,$level);
    }
    //PrintProps($Props);
    $HTML = RTC_GenericReplace($HTML,$Props);
    return $HTML;
}

function RTC_GetProps($db,$cid,$dataarr,$leftoffset,$topoffset){
    global $lastpageid;
    global $id;
    global $kv;

    $Props = array();
    $sql = SQL_GenerateWebPage_3($cid);
    $result=odbc_exec($db,$sql);
    $css="";
    $fieldname="";

    while(odbc_fetch_row($result)){
        $cssprop = odbc_result($result,"CssProp");
        $cssname = odbc_result($result,"CssName");
        $propname = odbc_result($result,"PropName");
        $propvalue = odbc_result($result,"PropValue");
        $ControlID = odbc_result($result,"ControlID");
        $Props['ControlID']=$ControlID;
        if($cssprop != 0){
            if(strlen($propvalue)>0){
                if(strlen($css)>0){
                    $css .= ";";
                }
                switch($cssname){
                    case 'top':
                        $propvalue += $topoffset;
                        break;
                    case 'left':
                        $propvalue += $leftoffset;
                        break;
                    case 'background-image':
                        $propvalue = ('URL('.$propvalue.')');
                        break;
                }
                $css .= ($cssname." : ".$propvalue);
            }
        }
        $Props[$propname]=$propvalue;

        if($propname=="FieldName"){
            $fieldname=$propvalue;
        }
    }

    $Props['style']=$css;
    $Props['datavalue'] = "";
    $Props['datavalue'] = RTC_GetDataValue($Props,$dataarr);
}

```

```

        return $Props;
    }

function RTC_GenericReplace($HTML,$Props){
    foreach($Props as $key=>$val){
        $HTML = ereg_replace("%".$key."%", $val, $HTML);
    }
    return $HTML;
}

function PrintProps($Props){
    print "\n";
    foreach($Props as $key=>$val){
        print $key."="."$val."\n";
    }
    print "\n";
}

function RTC_GetDataByTableName($db,$webpageid,$tableid){
    $sql = SQL_GenerateWebPage_15($tableid);
    if(odbc_fetch_row($result)){
        $ID = odbc_result($result,"ID");
    }
}

function RTC_GetDataFromWebPageTable($db,$webpageid,$tableid,$nocache){
    global $lastpageid;
    global $kv;

    $tablename="";
    $sql = SQL_GenerateWebPage_4($webpageid);
    $result=odbc_exec($db,$sql);
    if(odbc_fetch_row($result)){
        $tablename = odbc_result($result,"Val");
    }
    if (strlen($tablename) == 0 ){
        $kv="0";
    }

    if($nocache){
        return RTC_GetData($tablename,$tableid,true);
    }else{

        if($webpageid==$lastpageid){
            $_SESSION['webpagedata_'].$webpageid = $_POST;
        }else{
            if($kv != "0"){
                if (!isset($_SESSION['tableid_'].$webpageid)){
                    unset($_SESSION['webpagedata_'].$webpageid));
                }else if($_SESSION['tableid_'].$webpageid != $kv){
                    unset($_SESSION['webpagedata_'].$webpageid));
                }
                $_SESSION['tableid_'].$webpageid = $kv;
            }
            if(!isset($_SESSION['webpagedata_'].$webpageid)){
                $_SESSION['webpagedata_'].$webpageid=array();
            }
        }
    }
}

```

```

        $_SESSION['webpagedata_'].$webpageid] =
RTC_GetData($tablename,$tableid,false);
    }
}
//PrintProps($_SESSION['webpagedata_'].$webpageid]);
}
return $_SESSION['webpagedata_'].$webpageid];
}

function RTC_GetData($db,$tablename,$tableid,$nopost){
    global $fromid;
    global $id;
    global $lastpageid;

    $dataarr=array();

    if(strlen($tablename)>0){
        $sql = SQL_GenerateWebPage_5($tablename,$tableid);
        $result=odbc_exec($db,$sql);
        $recordexists = odbc_fetch_row($result);
        for($i=1;$i<=odbc_num_fields($result);$i++){
            $colname = odbc_field_name($result,$i);
            if(($id==$lastpageid) && (!$nopost)){
                $dataarr[strtolower($colname)] =
                $_POST[strtolower($colname)];
            }else{
                if($recordexists){
                    $dataarr[strtolower($colname)] =
                    odbc_result($result,$colname);
                }else{
                    $dataarr[strtolower($colname)] = "";
                }
            }
        }
    }

    return $dataarr;
}

function RTC_GetDataValue($Props,$dataarr){
    if(isset($Props["FieldName"])){
        if(strlen($Props["FieldName"]) > 0){
            if(isset($dataarr[$Props["FieldName"]])){
                return $dataarr[strtolower($Props["FieldName"])];
            }
        }
    }

    return "";
}

function RTC_GetOptionList($db,$Props){
    $options="";

    if(isset($Props["LookupTable"]) && isset($Props["LookupColKey"]) &&
    isset($Props["LookupColShow"])){
        if(strlen($Props["LookupTable"]) && strlen($Props["LookupColKey"])
        && strlen($Props["LookupColShow"])){
            $sql = SQL_GenerateWebPage_6($Props["LookupTable"]);
            $result=odbc_exec($db,$sql);

```

```

        while(odbc_fetch_row($result)){
            $options .= ('<option
value="'.odbc_result($result,$Props["LookupColKey"]).'" ');

            if(strtolower(odbc_result($result,$Props["LookupColKey"])) ==
strtolower($Props["datavalue"])){
                $options .= "selected";
            }
            $options .=
('>'.odbc_result($result,$Props["LookupColShow"]));
        }
        return $options;
    }
}

return "";
}

function RTC_AddFormFields($db,$wid,$keyvalues){

    $cols = "";
    $vals = "";

    $sql = SQL_GenerateWebPage_8($wid,'Screen','TableName');
    $result=odbc_exec($db,$sql);

    if(odbc_fetch_row($result)){
        $table = odbc_result($result,"Val");
        $columns = $_POST;
        $sql="";
        if($keyvalues == "0"){
            $sql="Select IsNull(Max(ID),0)+1 As 'ID' From ".$table."";
            $result=odbc_exec($db,$sql);
            $keyvalues=0;
            if(odbc_fetch_row($result)){
                $keyvalues=odbc_result($result,"ID");
            }
            $columns["ID"]=$keyvalues;
            $kv=$keyvalues;

            $sql="Insert Into ".$table."";
            foreach($columns as $key=>$val){
                if($cols != "") $cols .= ",";
                $cols .= $key;

                if($vals != "") $vals .= ",";
                $vals .= "'".fixSQL($val)."'";
            }

            $sql .= " ( ".$cols." ) VALUES ( ".$vals." )";

        }else{
            $set="";
            foreach($columns as $key=>$val){
                if(strlen($set)>0){
                    $set .= ',';
                }
                $set .= ($key."='".fixSQL($val)."'");
            }
            if(strlen($set) > 0){
                $sql .= ("Update ".$table." Set ".$set." WHERE ID =
".$keyvalues);
            }
        }
    }
}

```

```

        if(strlen($sql) > 0){
            //RTC_outputHTML($sql);
            odbc_exec($db,$sql);
        }
    }
}

function RTC_Validate($db,$wid){
    global $id;

    $vf1="";
    $vf2="";
    $vf3="";
    $ilf="";
    $slf="";

    $sql = SQL_GenerateWebPage_8($wid,'Screen','TableName');
    $result=odbc_exec($db,$sql);
    if(odbc_fetch_row($result)){
        $table = odbc_result($result,"Val");
        $columns = RTC_GetColumnList($table);

        $sql = SQL_GenerateWebPage_14($wid,'Submit','ValidationField1');
        $result=odbc_exec($db,$sql);
        if(odbc_fetch_row($result)){
            $vf1 = odbc_result($result,"Val");
        }

        $sql = SQL_GenerateWebPage_14($wid,'Submit','ValidationField2');
        $result=odbc_exec($db,$sql);
        if(odbc_fetch_row($result)){
            $vf2 = odbc_result($result,"Val");
        }

        $sql = SQL_GenerateWebPage_14($wid,'Submit','ValidationField3');
        $result=odbc_exec($db,$sql);
        if(odbc_fetch_row($result)){
            $vf3 = odbc_result($result,"Val");
        }

        $sql = SQL_GenerateWebPage_14($wid,'Submit','InvalidLoginForm');
        $result=odbc_exec($db,$sql);
        if(odbc_fetch_row($result)){
            $ilf = odbc_result($result,"Val");
        }

        $sql = SQL_GenerateWebPage_14($wid,'Submit','SuccessLoginForm');
        $result=odbc_exec($db,$sql);
        if(odbc_fetch_row($result)){
            $slf = odbc_result($result,"Val");
        }

        $where="";
        if (strlen($vf1)>0){
            $where .= ($vf1."="."'" . $columns[$vf1]."' AND ".$vf1." <>
'' ");
        }
        if (strlen($vf2)>0){
            if (strlen($where) > 0){
                $where .= " AND ";
            }
            $where .= ($vf2."="."'" . $columns[$vf2]."' AND ".$vf2." <>
'' ");
        }
    }
}

```

```

        if (strlen($vf3)>0){
            if (strlen($where) > 0){
                $where .= " AND ";
            }
            $where .= ($vf3."="."'"'. $columns[$vf3]."' AND ".$vf3." <>
'' ");
        }
        if (strlen($where)>0){
            $sql = "SELECT * FROM ".$table." WHERE ".$where;
            $result=odbc_exec($db,$sql);
            if(odbc_fetch_row($result)){
                //successful validation
                $_SESSION['validated'] = 'Y';
                $nextform=$sif;
            }else{
                //unsuccessful validation
                $_SESSION['validated'] = 'N';
                $nextform=$ilf;
            }
            $sql = SQL_GenerateWebPage_2($nextform);
            $result=odbc_exec($db,$sql);
            if(odbc_fetch_row($result)){
                $id = odbc_result($result,"ID");
            }
        }
    }

}

function RTC_DeleteRecord($db,$cid){
    global $kv;
    global $id;

    $cols = "";
    $vals = "";

    $sql = SQL_GenerateWebPage_11($cid);
    $result=odbc_exec($db,$sql);

    if(odbc_fetch_row($result)){
        $table = odbc_result($result,"Val");
        $sql = SQL_GenerateWebPage_12($table,$kv);
        odbc_exec($db,$sql);
    }
}

function RTC_GetFilter($searchfields,$dataarr){
    $where="";
    foreach ($searchfields as $searchfield ){
        $fn=ereg_replace('%', '', strtolower($searchfield));
        if(isset($dataarr[$fn])){
            if(strlen($dataarr[$fn])>0){
                if(strlen($where)>0){
                    $where .= ' AND ';
                }
                $where .= ($fn." like
''.ereg_replace($fn,$dataarr[$fn],$searchfield)."%'");
            }
        }
    }
}

if(strlen($where)>0){
    $where = ' WHERE '.$where;
}

```

```

    }
    return $where;
}

function RTC_GetGridTableData($db,$dataarr,$Props,$cid,$level,$html_container){
    global $ConnectionString;
    $HTML="";
    $row=0;
    global $id;
    //global $dataarr;

    $HTMLNextPrev = "";

    if(isset($Props["LookupTable"])){
        if(strlen($Props["LookupTable"])){

            $table=$Props["LookupTable"];

            $MaxRows="0";

            $wid=0;
            if(isset($Props["EditForm"])){
                if(strlen($Props["EditForm"])){
                    $sql =
SQL_GenerateWebPage_9($Props["EditForm"]);
                    // $db =
odbc_connect($ConnectionString, "", "", SQL_CUR_USE_ODBC);
                    $result=odbc_exec($db,$sql);
                    if(odbc_fetch_row($result)){
                        $wid = odbc_result($result,"ID");
                    }
                }
            }

            if(strlen($Props["SearchFields"])>0){
                $searchfields = split("\\|",$Props["SearchFields"]);
                $where = RTC_GetFilter($searchfields,$dataarr);
            }

            if(strlen($where)>0){
                $sql =
SQL_GenerateWebPage_10($Props["LookupTable"],$where);
                $result=odbc_exec($db,$sql);
                if(isset($Props["MaxRows"])){
                    if(strlen($Props["MaxRows"])){
                        $MaxRows = $Props["MaxRows"];
                    }
                }

                $gridrow=0;
                if(isset($_SESSION['gridrow'].$cid)){
                    $gridrow=$_SESSION['gridrow'].$cid;
                    if($gridrow>0){
                        while(odbc_fetch_row($result) &&
($row<($gridrow-1))){

                            $row++;
                        }
                        $row++;
                    }
                }
            }
        }
    }
}

```



```

$cols = odbc_num_fields($result);

//header
//$HEADERHTML = "<TABLE WIDTH=100% border=0
cellspacing=0 cellpadding=0>\n";
$HEADERHTML = "<TR>\n";
for($i=1;$i<=odbc_num_fields($result);$i++){
    if(odbc_field_name($result,$i) <> "ID"){
        if($i>1){
            $HEADERHTML .= '<TD
STYLE="width:1px;background-color:#D4D0C8"></TD>' . "\n";
        }
        $HEADERHTML .= "        <TD
style=\"color:%%color%%;background-color:#D4D0C8;border-top: outset white 2px;border-
left: outset white 2px;border-right: outset #808080 2px;border-bottom: outset #808080
2px;width:%%tdwidth%%px\">";
        $HEADERHTML .=
        odbc_field_name($result,$i);
        $HEADERHTML .= "        </TD>\n";
    }
}
$HEADERHTML .= "</TR>\n";
//$HEADERHTML .= "</TABLE>\n";
//$html_container = ereg_replace("%%headerhtml%%",
$HEADERHTML, $html_container);
$HTML=$HEADERHTML;

$localgridrow=0;
while(odbc_fetch_row($result) &&
(($MaxRows==0)||($row<($MaxRows+$gridrow))) ){
    //while(odbc_fetch_row($result)){

        //detail
        $HTML .= "<TR>\n";
        for($i=1;$i<=odbc_num_fields($result);$i++){
            if(odbc_field_name($result,$i) <>
"ID"){
                if($i>1){
                    $HTML .= '<TD
STYLE="width:1px;background-color:#808080"></TD>' . "\n";
                }
                $HTML .= '        <TD
style="color:%%color%%;border-bottom: solid #808080 1px;border-right: solid #808080
1px;width:%%tdwidth%%px">';
                $val =
                odbc_result($result,odbc_field_name($result,$i));
                $val="&nbsp;";
                "&nbsp;"; $val);
                // $val = ereg_replace(" ",
                $HTML .= $val;
                $HTML .= "        </TD>\n";
            }
        }
        if(isset($Props["EditForm"])){
            if(strlen($Props["EditForm"])){
                $cols++;
                if($i>1){
                    $HTML .= '<TD
STYLE="width:1px;background-color:#808080"></TD>' . "\n";
                }
                $i=2;
            }
            if($localgridrow>0){

```

```

$HTML .= "      <TD
style=\"color:%%color%%;border-bottom: solid #808080 1px;border-right: solid #808080
1px;width:%%tdwidth%%px\">;
}
}else{
$HTML .= "      <TD
style=\"color:%%color%%;border-bottom: solid #808080 1px;border-right: solid #808080
1px;border-top: solid #808080 1px;width:%%tdwidth%%px\">;
}
$HTML .= '&nbsp;<a
style="color:%%color%"
href="javascript:gridButtonAction(\\\'\',\'.$wid.\',\'.$odbc_result($result,"ID").')">Edit</a>'
;
$HTML .= "      </TD>\n";
}
}
if(isset($Props["AllowDelete"])){
if($Props["AllowDelete"]=="Y"){
$cols++;
if($i>1){
$HTML .= '<TD
STYLE="width:1px;background-color:#808080"></TD>\'.\n";
}
if($localgridrow>0){
$HTML .= "      <TD
style=\"color:%%color%%;border-bottom: solid #808080 1px;border-right: solid #808080
1px;width:%%tdwidth%%px\">;
}else{
$HTML .= "      <TD
style=\"color:%%color%%;border-bottom: solid #808080 1px;border-right: solid #808080
1px;border-top: solid #808080 1px;width:%%tdwidth%%px\">;
}
$HTML .= '&nbsp;<a
style="color:%%color%" href="javascript:if (confirm(\\\'Are you sure you want to delete
this row?\\\'))
gridButtonAction(\\\'Delete\\\',\'.$id.\',\'.$odbc_result($result,"ID").\',\'&cid=\'.$cid.\\\'')">Del
ete</a>'
;
$HTML .= "      </TD>\n";
}
}
$row++;
$localgridrow++;
$HTML .= "</TR>\n";
}
if($gridrow >0){
$HTMLNextPrev .= '<td><a style="background-
color:#D4DOC8;width:100%;POSITION: absolute;top:\'.$Props["height"].\';font-
size:10pt;color:%%color%"
href="javascript:GridNext(\'.$cid.\',\'.$( $MaxRows*((ceil($row/$MaxRows)-1)-1).\')">&lt;&lt;
Previous</a></td>\'.\n";
}
if (odbc_num_rows ($result) > $row){
$HTMLNextPrev .= '<td><a style="background-
color:#D4DOC8;width:100%;POSITION: absolute;top:\'.$Props["height"].\';font-
size:10pt;color:%%color%" href="javascript:GridNext(\'.$cid.\',\'.$row.\')">Next
&gt;&gt;</a></td>\'.\n";
}
}
if(strlen($html_container) >0){
$html_container = ereg_replace("%%griddata%",
$HTML, $html_container);
if(isset($Props["AllowAdd"])){
if($Props["AllowAdd"]=="Y"){

```

```

                                $ADDHTML = '<td><a style="background-
color:#D4DOC8;width:100%;POSITION: absolute;top:'. $Props["height"].';font-
size:10pt;color:%%color%%"
href="javascript:gridButtonAction(\'new\','. $wid.',0)">Add</a></td>';
                                $html_container =
ereg_replace("%%addhtml%%", $ADDHTML, $html_container);
                                }
                                }else{
                                $html_container=$HTML;
                                }
                                $html_container = ereg_replace("%%griddata%%", "",
$html_container);
                                $html_container = ereg_replace("%%addhtml%%", "",
$html_container);
                                //if ($cols>0){
                                //    $tdwidth = ".ceil(((int)($Props["width"])/$cols);
                                //}
                                $html_container = ereg_replace("width:%%tdwidth%%", "",
$html_container);
                                $html_container = ereg_replace("%%headerhtml%%", "",
$html_container);
                                $html_container = ereg_replace("%%nextprevhtml%%",
$HTMLNextPrev, $html_container);
                                return $html_container;
                                }
                                }
                                }
                                return "";
                                }
}

```

```

function RTC_GetSubform($db,$webpageid,$where,$Props,$cid,$level){
    global $ConnectionString;
    $HTML="";
    $row=0;
    global $id;
    global $dataarr;

    if(isset($Props["LookupTable"])){
        if(strlen($Props["LookupTable"])){
            $MaxRows="0";

            $formname = $Props["SubformName"];
            $tablename = $Props["LookupTable"];
            //$db2 =
            odbc_connect($ConnectionString, "", "", SQL_CUR_USE_ODBC);
            $sql = SQL_GenerateWebPage_2($formname);
            $result=odbc_exec($db,$sql);
            $formid = 0;
            if(odbc_fetch_row($result)){
                $formid = odbc_result($result,"ID");
            }
            //odbc_close($db2);

            $sql = SQL_GenerateWebPage_10($tablename,$where);
            $result=odbc_exec($db,$sql);

            if(isset($Props["MaxRows"])){
                if(strlen($Props["MaxRows"])){
                    $MaxRows = $Props["MaxRows"];
                }
            }
        }
    }
}

```

```

$gridrow=0;
if(isset($_SESSION['gridrow'].$cid)){
    $gridrow=$_SESSION['gridrow'].$cid;
    if($gridrow>0){
        while(odbc_fetch_row($result) &&
($row<($gridrow-1))){
            $row++;
        }
        $row++;
    }
}
$start=1;

$HTML = "\n\n<!-- Start of Sub Form -->\n";
//HTML .= '<DIV STYLE="POSITION:ABOSOLUTE; border-
style:none; border-width: 0px; overflow: visible">';
//HTML .= (RTC_GenericReplace($HTML,$Props)."\n");

$top = $Props["top"];
if($MaxRows==0){
    $height = $Props["height"];
}else{
    $height = $Props["height"]/$MaxRows;
}
$left = $Props["left"];

while(odbc_fetch_row($result) &&
(($MaxRows==0)||($row<($MaxRows+$gridrow))) ){
    $kv = odbc_result($result,"ID");

    $HTML .=
(RTC_GetControls($formid,$kv,$left,$top,($level+1))."\n");
    $top += $height;
    $row++;
}
$HTML .= "</DIV>\n";
$HTML .= "<!-- End of Sub Form -->\n";

return $HTML;
}
}
return "";
}

```

```

function RTC_GetURL($db,$address){
    $url="";
    if(substr($address,0,strlen("http://")) == "http://"){
        $url = $address;
    }else{
        //must be a local form..
        $sql = SQL_GenerateWebPage_13($address);
        $result=odbc_exec($db,$sql);
        if(odbc_fetch_row($result)){
            $pageid = odbc_result($result,"ID");

```

```

        $url = "javascript:gridButtonAction('', ".$pageid.", 0)";
    }else{
        $url="javascript:alert('Could not find form:
".$address."'");
    }
}
return $url;
}
?>
<?php
include 'appconfigend.php';
?>

<?php
//*****
//          File Name: HeaderMenu.php
//*****

viewstate()
?>

<script language="javascript">
function redirect(url){
    document.frm.action=url;
    document.frm.submit();
}
</script>

<center>
<table width=100%>
    <tr>
        <td colspan=6 style="font-size:16pt;font-weight:700;font-family:arial">
            <?php print $appname; ?>
        </td>
    </tr>
</table>
<table style="font-family:arial;font-size:10pt;border-style:solid;border-
width:1px;border-color:#3366CC" cellspacing=0 cellpadding=1 WIDTH=100%>
    <tr>
<?php
        switch($menuselection){
            case 1:??>
                <td nowrap width=150 align=center style="background-color:#DFDFDF;
color:#000000; border-right: 1px solid #3366CC">
                    <A style="text-decoration:none; color:#000000">Forms</A>
                </td>
                <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
                    <A style="text-decoration:none; color:#000000"
HREF="javascript:redirect('Tables.php')">Database</A>
                </td>
                <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
                    <A style="text-decoration:none; color:#000000"
HREF="javascript:redirect('Queries.php')">Queries</A>
                </td>
                <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">

```

```

                <A style="text-decoration:none; color:#000000"
HREF="javascript:redirect('Services.php')">Services</A>
            </td>
            <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
                <A style="text-decoration:none; color:#000000"
HREF="javascript:redirect('maintainacc.php')">Maintain Account</A>
            </td>
            <?php break;
        case 2:?>

            <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
                <A style="text-decoration:none; color:#000000"
HREF="javascript:redirect('Webpages.php')">Forms</A>
            </td>
            <td nowrap width=150 align=center style="background-color:#DFDFDF;
color:#000000; border-right: 1px solid #3366CC">
                <A style="text-decoration:none; color:#000000">Database</A>
            </td>
            <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
                <A style="text-decoration:none; color:#000000"
HREF="javascript:redirect('Queries.php')">Queries</A>
            </td>
            <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
                <A style="text-decoration:none; color:#000000"
HREF="javascript:redirect('Services.php')">Services</A>
            </td>
            <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
                <A style="text-decoration:none; color:#000000"
HREF="javascript:redirect('maintainacc.php')">Maintain Account</A>
            </td>
            <?php break;
        case 3:?>
            <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
                <A style="text-decoration:none; color:#000000"
HREF="javascript:redirect('Webpages.php')">Forms</A>
            </td>
            <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
                <A style="text-decoration:none; color:#000000"
HREF="javascript:redirect('Tables.php')">Database</A>
            </td>
            <td nowrap width=150 align=center style="background-color:#DFDFDF;
color:#000000; border-right: 1px solid #3366CC">
                <A style="text-decoration:none; color:#000000">Queries</A>
            </td>
            <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
                <A style="text-decoration:none; color:#000000"
HREF="javascript:redirect('Services.php')">Services</A>
            </td>
            <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
                <A style="text-decoration:none; color:#000000"
HREF="javascript:redirect('maintainacc.php')">Maintain Account</A>
            </td>
            <?php break;
        case 4:?>

```

```

        <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
            <A style="text-decoration:none; color:#000000"
HREF="javascript:redirect('Webpages.php')">Forms</A>
        </td>
        <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
            <A style="text-decoration:none; color:#000000"
HREF="javascript:redirect('Tables.php')">Database</A>
        </td>
        <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
            <A style="text-decoration:none; color:#000000"
HREF="javascript:redirect('Queries.php')">Queries</A>
        </td>
        <td nowrap width=150 align=center style="background-color:#DFDFDF;
color:#000000; border-right: 1px solid #3366CC">
            <A style="text-decoration:none; color:#000000">Services</A>
        </td>
        <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
            <A style="text-decoration:none; color:#000000"
HREF="javascript:redirect('maintainacc.php')">Maintain Account</A>
        </td>
        <?php break;
    case 5:??>
        <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
            <A style="text-decoration:none; color:#000000"
HREF="javascript:redirect('Webpages.php')">Forms</A>
        </td>
        <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
            <A style="text-decoration:none; color:#000000"
HREF="javascript:redirect('Tables.php')">Database</A>
        </td>
        <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
            <A style="text-decoration:none; color:#000000"
HREF="javascript:redirect('Queries.php')">Queries</A>
        </td>
        <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
            <A style="text-decoration:none; color:#000000"
HREF="javascript:redirect('Services.php')">Services</A>
        </td>
        <td nowrap width=150 align=center style="background-color:#DFDFDF;
color:#000000; border-right: 1px solid #3366CC">
            <A style="text-decoration:none; color:#000000">Maintain
Account</A>
        </td>
        <?php break;
    }
?>
</tr>
</table>
<table width=100%>
<tr><td align=right style="font-size:8pt;font-family:arial">Logged in as <?php print
$viewstate['login'] ?>&nbsp;&nbsp;&nbsp;<a href="javascript:redirect('Login.php?logout=Y') "
style="font-size:8pt;font-family:arial">Logout</a></td></tr>
</table>
</center>

<?php

```

```

//*****
//                               File Name: help.php
//*****
    $securepage=false;
    include 'appconfig.php';
?>

<html>
<body>

<center>

<table>
  <tr>
    <td colspan=5 style="font-size:16pt;font-weight:700;font-family:arial">
      <?php print $appname; ?>
    </td>
  </tr>
  <tr><td>

<table style="font-family:arial;font-size:10pt;border-style:solid;border-
width:1px;border-color:#3366CC" cellspacing=0 cellpadding=1 WIDTH=100%>
  <tr>
    <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
      <A style="text-decoration:none; color:#000000"
      HREF="main.php">Home</A>
    </td>
    <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
      <A style="text-decoration:none; color:#000000"
      HREF="Login.php">Login</A>
    </td>
    <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
      <A style="text-decoration:none; color:#000000"
      HREF="newacc.php">New Account</A>
    </td>
    <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
      <A style="text-decoration:none; color:#000000"
      HREF="contacts.php">Contact</A>
    </td>
    <td nowrap width=150 align=center style="background-color:#DFDFDF;
color:#000000; border-right: 1px solid #3366CC">
      <A style="text-decoration:none; color:#000000">Help</A>
    </td>
  </tr>
</table>
</center>

    </td></tr>

</table>

<br><br>
<center>
<b>Please select a category to get more information</b>
<br><br>

```



```

<a href="">Form Maintenance</a><br><br>
<a href="">Database Maintenance</a><br><br>
<a href="">Implementing a site</a><br><br>
</center>

```

```

<table width=100% height=28%>
<tr><td>&nbsp;&nbsp;&nbsp;</td></tr>
</table>

```

```

<center>

```

```

<span style="font-family:arial;font-size:8pt;color:#000000">

```

```

<hr style="height:1px;width=60%">

```

```

<a href="home" style="color:#000000">home</a>&nbsp;&nbsp;&nbsp;|
<a href="home" style="color:#000000">login</a>&nbsp;&nbsp;&nbsp;|
<a href="home" style="color:#000000">new account</a>&nbsp;&nbsp;&nbsp;|
<a href="home" style="color:#000000">contact</a>&nbsp;&nbsp;&nbsp;|
<a href="home" style="color:#000000">help</a>
<br><br><br>

```

```

&copy;2003 <?php print $appname; ?>
</span>

```

```

</center>

```

```

</body>
</html>

```

```

<?php
//*****
//                               File Name: hostconfig.php
//*****

//web application server
    $server=$HTTP_SERVER_VARS['SERVER_NAME'];
//web application URL location
    $phpself = $HTTP_SERVER_VARS['PHP_SELF'];
    $phpself_r = strstr(substr($phpself,1,100),"/");
    if($phpself_r != ""){
        $phpself = str_replace($phpself_r, "", $phpself);
    }else{
        $phpself = "";
    }
    $application_url_location="http://".$server.$phpself;
//web application local location
    //$application_local_location="\mystuff\masters_projects\www_v2";
    $application_local_location=getcwd();
//web application data (for access) location
    $application_data_location=$application_local_location."\data\";
//master database server
    $MasterDatabaseServer = 'IT63587';
//master database port
    $MasterPort = '3306';
//image file location
    if(isset($viewstate['siteid'])){
        $img_local_path =
$application_local_location."\images\userimages\'.$viewstate['siteid'];

```

```

        $img_virtual_path =
$application_url_location."/images/userimages/".$viewstate['siteid'];
    }
    //location of the designer applet
    $designer_applet_path = $application_url_location."/classes";
    //location of the property applet
    $controlprops_applet_path = $application_url_location."/classes";

?>
<?php
//*****
//          File Name: imagepicker.php
//*****
    include 'appconfig.php';
?>

<HTML>
    <HEAD>
    <TITLE>SELECT IMAGE</TITLE>
    <script language="javascript">

        function closeWindow(url,type,id,prop) {
            window.opener.selectImageURL(url,type,id,prop)
            window.close();
        }

        function init(){

<?php
    $id=0;
    if(isset($_GET['id'])){
        $id=$_GET['id'];
    }else{
        $id=$_POST['id'];
    }

    $type='';
    if(isset($_GET['type'])){
        $type=$_GET['type'];
    }else if(isset($_POST['type'])){
        $type=$_POST['type'];
    }

    $prop='';
    if(isset($_GET['prop'])){
        $prop=$_GET['prop'];
    }else if(isset($_POST['prop'])){
        $prop=$_POST['prop'];
    }

    if (isset($_FILES['file1'])){

        if (isset($_FILES['file1']['error'])){
            print '//ERROR:'.$_FILES['file1']['error']."\n";
        }

        $userfile_name=$_FILES['file1']['name'];
        if (!is_dir($img_local_path)){
            mkdir($img_local_path);

```

```

    }
    $upfile = $img_local_path.'_'.$userfile_name;

    print '///  

    print '///  

    print '///  

    if ( ! move_uploaded_file($FILES['file1']['tmp_name'], $upfile) ){
        print "alert('Could not copy file.');"
    }else{
        print
"closeWindow('.$FILES['file1']['name'].','.$type.','.$id.','.$prop.');"
    }
}

?>
}

</script>
</HEAD>

<BODY MARGINWIDTH=0 MARGINHEIGHT=0 LEFMARGIN=0 TOPMARGIN=0 onLoad="init()">
<FORM METHOD=POST ENCTYPE="multipart/form-data">
<INPUT TYPE="hidden" name="MAX_FILE_SIZE" value="1000000">

<TABLE BORDER=0 CELLSPACING=1 CELLPADDING=0>
<tr>
<td nowrap >
        Image URL:
    </td>
<td nowrap >
        <input type="text" name="url" value="">
    </td>
</tr>
<tr>
<td nowrap >
        &nbsp;
    </td>
</tr>
<tr>
<td nowrap >
        or
    </td>
</tr>
<tr>
<td nowrap >
        &nbsp;
    </td>
</tr>
<tr>
<td nowrap >
        Local file:
    </td>
<td nowrap >
        <input type="file" name="file1" value="...">
    </td>
</tr>
<tr>
<td nowrap >
        <input type="submit" value="OK">
    </td>
</tr>

```

```

        </tr>

        </TABLE>
        <INPUT TYPE=HIDDEN NAME=id VALUE="<?php print $id;?>">
        <INPUT TYPE=HIDDEN NAME=type VALUE="<?php print $type;?>">
        <INPUT TYPE=HIDDEN NAME=prop VALUE="<?php print $prop;?>">

        </FORM>
        </BODY>

</HTML>

<?php
//*****
//      File Name: Login.php
//*****
    $securepage=false;
    include 'appconfig.php';
    include 'sql.php';

    $msg = "";

    if(isset($_GET['logout'])){
        if ($_GET['logout'] == "Y"){
            RemoveSession();
        }
    }

    //if(isset($login)){
    //    Redirect('WebPages.php');
    //}else if(isset($_POST['btnSubmit'])){
    if(isset($_POST['btnSubmit'])){

        $login=$_POST['login'];
        $pw=$_POST['password'];

        $dbm = odbc_connect($MasterConnectionString,"","",SQL_CUR_USE_ODBC);
        $sql = SQL_Login_1($login,$pw);
        $result=odbc_exec($dbm,$sql);
        if (odbc_fetch_row($result)){

            $viewstate['login']= $login;
            $viewstate['connectstring']= odbc_result($result,"connectstring");
            $viewstate['databasetype'] = odbc_result($result,"databasetype");
            $viewstate['siteid'] = odbc_result($result,"id");
            if($viewstate['databasetype']=='ACCESS'){
                $viewstate['connectstring'] = ($viewstate['connectstring']
                .' ;DefaultDir='. $application_data_location);
            }
            $db =
odbc_connect($viewstate['connectstring'], "", "", SQL_CUR_USE_ODBC);
            NewSession();
            Redirect('WebPages.php');
        }else{
            $msg = 'Invalid login and/or password';
        }

        odbc_close($dbm);
    }

?>
<html>

```

```

<body>

<center>

<table>
  <tr>
    <td colspan=5 style="font-size:16pt;font-weight:700;font-family:arial">
      <?php print $appname; ?>
    </td>
  </tr>

  <tr><td>

<table style="font-family:arial;font-size:10pt;border-style:solid;border-
width:1px;border-color:#3366CC" cellspacing=0 cellpadding=1 WIDTH=100%>
  <tr>
    <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
      <A style="text-decoration:none; color:#000000"
      HREF="Main.php">Home</A>
    </td>
    <td nowrap width=150 align=center style="background-color:#DFDFDF;
color:#000000; border-right: 1px solid #3366CC">
      <A style="text-decoration:none; color:#000000">Login</A>
    </td>
    <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
      <A style="text-decoration:none; color:#000000"
      HREF="newacc.php">New Account</A>
    </td>
    <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
      <A style="text-decoration:none; color:#000000"
      HREF="contacts.php">Contact</A>
    </td>
    <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
      <A style="text-decoration:none; color:#000000"
      HREF="help.php">Help</A>
    </td>
  </tr>

</table>
</center>

  </td></tr>

</table>

<form method="post" action="Login.php">

<center>

<table width=60%>
<tr>
<td align=center style="width:60px;color:#ffffff;background-color:#2053a3;font-
family:arial;font-weight:700;font-size:10pt">
LOG IN
</td>
<td>&nbsp;</td>

```

```
</tr>
</table>
```

```
<table bgcolor="#eeeeee" width=60% cellpadding=3 border=0 style="font-family:arial;font-size:10pt">
```

```
<TR>
  <TD align=right>
    Login:
  </TD>
  <TD>
    <INPUT TYPE="TEXT" Name="login" value="">
  </TD>
</TR>
<TR>
  <TD align=right>
    Password:
  </TD>
  <TD>
    <INPUT TYPE="password" name="password" value="">
  </TD>
</TR>
<TR>
  <td></td>
  <TD>
    <INPUT TYPE="Submit" Value="Submit" NAME="btnSubmit">
  </TD>
</TR>
<TR>
  <td></td>
  <TD>
    <?php print $msg; ?>
  </TD>
</TR>
</table>
```

```
</center>
</form>
```

```
<?php
  include 'mainfoot.php';
?>
```

```
</body>
</html>
<?php
//*****
//          File Name: main.php
//*****
  $securepage=false;
  include 'appconfig.php';
?>

<html>
<body>
```



```

</center>

<?php
    include 'mainfoot.php';
?>

</body>
</html>

<?php
//*****
//          File Name: maintainacc.php
//*****

    include 'appconfig.php';
    include 'sql.php';

    $name='';
    $email='';
    $login='';
    $pw='';
    $pw2='';
    $msg='&nbsp;';

    if(isset($_POST['btnSubmit'])){
        //session_register('login');

        $name=$_POST['name'];
        $email=$_POST['email'];
        $login=$_viewstate['login'];
        $pw=$_POST['password'];
        $pw2=$_POST['password2'];

        if($pw != $pw2){
            $msg = 'passwords dont match';
        }else if(strlen($pw) < 4){
            $msg = 'password must be at least 4 characters';
        }else if(strlen($login) < 4){
            $msg = 'login must be at least 4 characters';
        }else{
            SQL_SP_AddUpdateAccount($name,$email,$login,$pw);
        }
    }else{
        $db = odbc_connect($MasterConnectString,"","SQL_CUR_USE_ODBC);
        $sql = SQL_MaintainAccount_1($_viewstate['siteid']);
        $result=odbc_exec($db,$sql);
        if (odbc_fetch_row($result)){
            $name=odbc_result($result,"name");
            $login=odbc_result($result,"login");
            $email=odbc_result($result,"email");
            $pw=odbc_result($result,"password");
            $pw2=odbc_result($result,"password");
        }
        odbc_close($db);
    }

?>
<html>
<body>

```



```

<form method="post" name="frm">
<center>
<?php
    $menuselection=5;
    include 'headermenu.php';
?>

<center>

<table width=60%>
<tr>
<td nowrap align=center width=5% style="color:#ffffff;background-color:#2053a3;font-family:arial;font-weight:700;font-size:10pt">
    &nbsp;&nbsp;&nbsp;Maintain Account&nbsp;&nbsp;&nbsp;
</td>
<td&nbsp;&nbsp;&nbsp;</td>
</tr>
</table>

<table bgcolor="#eeeeee" width=60% cellpadding=3 border=0 style="font-family:arial;font-size:10pt">
<TR>
    <TD align=right>
        Name:
    </TD>
    <TD>
        <INPUT TYPE="TEXT" Name="name" value="<?php print $name;?>">
    </TD>
</TR>
<TR>
    <TD align=right>
        Email:
    </TD>
    <TD>
        <INPUT TYPE="TEXT" Name="email" value="<?php print $email;?>">
    </TD>
</TR>
<TR>
    <TD align=right>
        Login:
    </TD>
    <TD>
        <DIV><?php print $login;?></DIV>
    </TD>
</TR>
<TR>
    <TD align=right>
        Password:
    </TD>
    <TD>
        <INPUT TYPE="password" name="password" value="<?php print $pw;?>">
    </TD>
</TR>
<TR>
    <TD align=right>

```

```

Repeat Password:
</TD>
<TD>
    <INPUT TYPE="password" name="password2" value="<?php print $pw2;?>">
</TD>
</TR>

<TR>
    <td></td>
<TD>
    <INPUT TYPE="Submit" Value="Save Account Info" NAME="btnSubmit">
</TD>

</TR>
<TR>
    <td></td>
<TD>
    <?php print $msg; ?>
</TD>

</TR>

</table>

</center>
</form>

<?php
    include 'mainfootlogin.php';
?>

</body>
</html>

<?php
//*****
//          File Name: newacc.php
//*****
    $securepage=false;
    include 'appconfig.php';
    include 'sql.php';

    $name='';
    $email='';
    $login='';
    $pw='';
    $pw2='';
    $msg='&nbsp;';

    if(isset($_POST['btnSubmit'])){
        //session_register('login');

        $name=$_POST['name'];
        $email=$_POST['email'];
        $login=$_POST['login'];
        $pw=$_POST['password'];
        $pw2=$_POST['password2'];

```

```

        if($pw != $pw2){
            $msg = 'passwords dont match';
        }else if(strlen($pw) < 4){
            $msg = 'password must be at least 4 characters';
        }else if(strlen($login) < 4){
            $msg = 'login must be at least 4 characters';
        }else if(strtolower($login) == "master"){
            $msg = 'login already exists';
        }else{
            $db = odbc_connect($MasterConnectString,"","",SQL_CUR_USE_ODBC);
            $result=odbc_exec($db,"select * from Account Where
Login='".$login."'");
            if ( !odbc_fetch_row($result) ){
                SQL_SP_AddUpdateAccount($name,$email,$login,$pw);
                Redirect('newaccok.php');
            }else{
                $msg = 'login already exists';
            }
            odbc_close($db);
        }
    }

?>
<html>
<body>

<center>

<table>
    <tr>
        <td colspan=5 style="font-size:16pt;font-weight:700;font-family:arial">
            <?php print $appname; ?>
        </td>
    </tr>
    <tr><td>

<table style="font-family:arial;font-size:10pt;border-style:solid;border-
width:1px;border-color:#3366CC" cellspacing=0 cellpadding=1 WIDTH=100%>
    <tr>
        <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
            <A style="text-decoration:none; color:#000000"
            HREF="Main.php">Home</A>
        </td>
        <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
            <A style="text-decoration:none; color:#000000"
            HREF="Login.php">Login</A>
        </td>
        <td nowrap width=150 align=center style="background-color:#DFDFDF;
color:#000000; border-right: 1px solid #3366CC">
            <A style="text-decoration:none; color:#000000">New
            Account</A>
        </td>
        <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
            <A style="text-decoration:none; color:#000000"
            HREF="contacts.php">Contact</A>
        </td>
    </tr>

```

```

        <td nowrap width=150 align=center style="background-color:#BFBFBF;
color:#000000; border-right: 1px solid #3366CC">
            <A style="text-decoration:none; color:#000000"
HREF="help.php">Help</A>
        </td>
    </tr>
</table>
</center>

```

```

        </td></tr>

```

```

</table>

```

```

<form method="post">

```

```

<center>

```

```

<table width=60%>
<tr>
<td nowrap align=center width=5% style="color:#ffffff;background-color:#2053a3;font-
family:arial;font-weight:700;font-size:10pt">
&nbsp;New Account&nbsp;
</td>
<td>&nbsp;</td>
</tr>
</table>

```

```

<table bgcolor="#e0e0e0" width=60% cellpadding=3 border=0 style="font-family:arial;font-
size:10pt">

```

```

<TR>
    <TD align=right>
        Name:
    </TD>
    <TD>
        <INPUT TYPE="TEXT" Name="name" value="<?php print $name;?>">
    </TD>
</TR>

```

```

<TR>
    <TD align=right>
        Email:
    </TD>
    <TD>
        <INPUT TYPE="TEXT" Name="email" value="<?php print $email;?>">
    </TD>
</TR>

```

```

<TR>
    <TD align=right>
        Login:
    </TD>
    <TD>
        <INPUT TYPE="TEXT" Name="login" value="<?php print $login;?>">
    </TD>
</TR>

```

```

<TR>
    <TD align=right>

```

```

        Password:
    </TD>
    <TD>
        <INPUT TYPE="password" name="password" value="<?php print $pw;?>">
    </TD>
</TR>
<TR>
    <TD align=right>
        Repeat Password:
    </TD>
    <TD>
        <INPUT TYPE="password" name="password2" value="<?php print $pw2;?>">
    </TD>
</TR>
<TR>
    <td></td>
    <TD>
        <INPUT TYPE="Submit" Value="Create Account" NAME="btnSubmit">
    </TD>
</TR>
<TR>
    <td></td>
    <TD>
        <?php print $msg; ?>
    </TD>
</TR>
</table>

</center>
</form>

<?php
    include 'mainfoot.php';
?>

</body>
</html>

<?php
//*****
//          File Name: newaccok.php
//*****

    $securepage=false;
    include 'appconfig.php';
?>

<html>
<body>

<center>

<table>
    <tr>

```



```

<TR>
  <TD align=center>
    Your account has been created.
  </TD>
</TR>
</table>

</center>

<table width=100% height=200>
<tr><td>&nbsp;</td></tr>
</table>

<center>

<span style="font-family:arial;font-size:8pt;color:#000000">

<hr style="height:1px;width=60%">

<a href="home" style="color:#000000">home</a>&nbsp;<|
<a href="home" style="color:#000000">login</a>&nbsp;<|
<a href="home" style="color:#000000">new account</a>&nbsp;<|
<a href="home" style="color:#000000">contact</a>&nbsp;<|
<a href="home" style="color:#000000">help</a>
<br><br><br>

&copy;2003 <?php print $appname; ?>
</span>

</center>

</body>
</html>
//*****
//          File Name: PropsTree.java
//*****

import java.awt.*;
import java.awt.event.*;
import java.util.*;
import java.applet.*;
import javax.swing.event.TableModelListener;
import javax.swing.event.TableModelEvent;
import javax.swing.*;
import javax.swing.border.*;
import javax.swing.table.*;
import java.awt.*;
import java.util.ArrayList;
import java.util.List;
import javax.swing.*;
import javax.swing.event.*;
import javax.swing.table.*;
import netscape.javascript.*;

public class PropsTree extends JApplet{

```

```

JTable table;
Hashtable hshTree;
    Hashtable hshPropToName;
ArrayList data;
ArrayList dataIDs;
ArrayList columnNames;
String strLastRootNode;
boolean blnManualEntryMode=false;
Vector vdata;
Vector vcolumnNames;
String strJSFunction_FileUpload = "";
    String strJSFunction_ChangeEvent = "";
    boolean blnLoadingTree=false;

public PropsTree(){
    try {
        UIManager.setLookAndFeel(UIManager.getSystemLookAndFeelClassName());
    } catch(Exception e) {
        System.out.println("Error setting native LAF: " + e);
    }

    TableColumn tc;
    vcolumnNames = new Vector();
    Object vrow[] = new Object[3];
    strLastRootNode = "";

    columnNames = new ArrayList(2);
    columnNames.add("");
    columnNames.add("Name");
    columnNames.add("Value");

    data = new ArrayList();
    data.add( new Item("", "", "") );

    TableModel model = new ItemTableModel(data, columnNames);
    table = new JTable();
    table.setPreferredScrollableViewportSize(table.getPreferredSize());
    table.setCellSelectionEnabled(true);

    JTableHeader jth = table.getTableHeader();
    Dimension size = new Dimension(jth.getSize().width, table.getRowHeight());
    jth.setPreferredSize(size);
    table.setTableHeader(jth);

    table.addMouseListener(new MouseAdapter() {
        public void mousePressed(MouseEvent e) {
            Point p = e.getPoint();
            TableMouseClicked(table.rowAtPoint(p), table.columnAtPoint(p));
        }
    });

    JScrollPane scrollPane = new JScrollPane( table );
    scrollPane.setBackground(new Color(153,153,153));
    getContentPane().add( scrollPane );
    getContentPane().setBackground(new Color(153,153,153));
}

public void start(){
setBackground(new Color(153,153,153));
}

public void SetManualEntry(boolean b){
    blnManualEntryMode=b;
}

```



```

private void TableMouseClicked(int intRow,int intCol){
    String strNodeName;
    Hashtable ht;
    Integer i;
    int intCurrentState;

    blnManualEntryMode=true;

    switch(intCol){
        case 0:
            strNodeName = (String)dataIDs.get(intRow);
            ht = (Hashtable)hshTree.get(strNodeName);
            intCurrentState =
((Integer)ht.get("expandstate")).intValue();
            switch(intCurrentState){
                case 0:
                    break;
                case 1:
                    ht.put("expandstate", new Integer(2));
                    LoadTreeIntoTable(strLastRootNode);
                    break;
                case 2:
                    ht.put("expandstate", new Integer(1));
                    LoadTreeIntoTable(strLastRootNode);
                    break;
            }
            break;
        case 2:
            break;
    }
}

public void newTree(){
    hshTree = new Hashtable();
    hshTree.put("",new Hashtable());
}

public void SetRootNode(String strNode){
    strLastRootNode = strNode;
    LoadTreeIntoTable(strLastRootNode);
}

private void LoadTreeIntoTable(String strParentNodeName){
    String strNodeName;
    Hashtable hshNode;

    if(!blnLoadingTree){
        blnLoadingTree=true;
        vdata = new Vector();
        data = new ArrayList();
        dataIDs = new ArrayList();
        hshPropToName = new Hashtable();

        List keys = new ArrayList(hshTree.keySet());
        Collections.sort(keys);
        Iterator i = keys.iterator();
        while (i.hasNext()){
            strNodeName = (String) i.next();
            hshNode = (Hashtable)hshTree.get(strNodeName);
            if(hshNode != null){
                hshNode.put("current_table_row",new Integer(-1));
            }
        }
    }
}

```

```

RecursiveLoadTreeIntoTable(strParentNodeName,0,0);
TableModel model = new ItemTableModel(data, columnNames);
table.setModel(model);
if(table.getColumnModel().getColumnCount(>1){
    table.getColumnModel().getColumn(0).setMaxWidth(10);
    table.getColumnModel().getColumn(0).setCellRenderer(new
ExpandCellRenderer());
}
if(table.getColumnModel().getColumnCount(>1){
    table.getColumnModel().getColumn(1).setCellRenderer(new
NameCellRenderer(dataIDs,hshTree));
}
if(table.getColumnModel().getColumnCount(>2){
    table.getColumnModel().getColumn(2).setCellRenderer(new
ValueCellRenderer(hshTree,dataIDs,this));
    table.getColumnModel().getColumn(2).setCellEditor(new
ValueCellEditor(hshTree,dataIDs,this));
}
JTableHeader jth = table.getTableHeader();
Dimension size = new Dimension(jth.getSize().width,
table.getRowHeight());
jth.setPreferredSize(size);
table.setTableHeader(jth);
repaint();
blnLoadingTree=false;
}
}

```

```

private void RecursiveLoadTreeIntoTable(String strParentNodeName,int intLevel,int
intPrintLevel){

```

```

    Hashtable hshRootNode;
    Hashtable hshChildren;
    Hashtable hshChild;
    String strNodeName;
    int intExpandState;
    Object strValue;
    String strDisplayName;
    String strCSSName;

    Object vrow[] = new Object[3];

    hshRootNode = (Hashtable)hshTree.get(strParentNodeName);

    hshChildren = (Hashtable)hshRootNode.get("childList");
    List keys = new ArrayList(hshChildren.keySet());
    Collections.sort(keys);
    Iterator i = keys.iterator();
    while (i.hasNext()){
        strNodeName = (String) i.next();
        hshChild = (Hashtable)hshTree.get(strNodeName);
        if(hshChild != null){
            Integer itg = (Integer)hshChild.get("expandstate");
            intExpandState = itg.intValue();
            strValue = (String)hshChild.get("currentValue");
            strDisplayName = (String)hshChild.get("displayName");
            strCSSName = (String)hshChild.get("cssname");

            if(intLevel>=intPrintLevel){
                switch(intExpandState){
                    case 0:
                        vrow[0]="";
                        vrow[1]=strDisplayName;
                        vrow[2]=strValue;

```

```

vdata.add(vrow);

hshPropToName.put(strCSSName, strNodeName);

hshChild.put("current_table_row", new Integer(data.size()));
data.add( new Item("", strDisplayName,
strValue) );
break;
case 1:
vrow[0]="+";
vrow[1]=strDisplayName;
vrow[2]=strValue;
vdata.add(vrow);

hshPropToName.put(strCSSName, strNodeName);

hshChild.put("current_table_row", new Integer(data.size()));
data.add( new
Item("+", strDisplayName, strValue) );
break;
case 2:
data.add( new Item("-
", strDisplayName, strValue) );
break;
}
dataIDs.add(strNodeName);
}
if(intExpandState == 2){
if(strNodeName != null){
RecursiveLoadTreeIntoTable(strNodeName, intLevel+1, intPrintLevel);
}
}
}
}

public void addChild(
String strParentNode,
String nodename,
String displayName,
String prpType,
int cssprop,
String defaultValue,
String valueList,
String strCSSName
){
String fooname="";
String typeNode = null;
Hashtable hshChild;
Hashtable hshParentNode=null;
Hashtable hshChildren;
hshParentNode = (Hashtable)hshTree.get(strParentNode);

if( ((Hashtable)hshParentNode.get("childList")) == null ){
hshChildren = new Hashtable();
hshParentNode.put("childList", hshChildren);
}else{
}
}

```

```

hshChildren = (Hashtable)hshParentNode.get("childList");
if(hshChildren != null){
    if( ((Hashtable)hshChildren.get(nodename)) == null ){
        hshChild = new Hashtable();
        hshTree.put(nodename,hshChild);
        hshChildren.put(nodename, hshChild);
    }else{
        hshChild = (Hashtable)hshChildren.get(nodename);
    }
    hshChild.put("name",nodename);
    hshChild.put("displayName",displayName);
    hshChild.put("propType",prpType);
    hshChild.put("defaultValue",defaultValue);
    hshChild.put("currentValue",defaultValue);
    hshChild.put("valueList",valueList);
    hshChild.put("expandstate",new Integer(0));

    hshChild.put("cssname",strCSSName);
    hshChild.put("current_table_row",new Integer(-1));
    hshParentNode.put("expandstate",new Integer(1));
}
}

public void setJSCallBackFunction_FileUpload(String strJSFunction){
    strJSFunction_FileUpload = strJSFunction;
}

public void setJSCallBackFunction_ChangeEvent(String strJSFunction){
    strJSFunction_ChangeEvent = strJSFunction;
}

protected void JSCallBackFunction_FileUpload(String strNodeName,String strURL){
    if (strJSFunction_FileUpload.length() > 0 ){
        Object obj[] = new Object[2];
        obj[0] = strNodeName;
        obj[1] = strURL;

        JSObject win = JSObject.getWindow(this);
        JSObject doc = (JSObject) win.getMember("document");
        JSObject loc = (JSObject) doc.getMember("location");

        String s = (String) loc.getMember("href");
        win.call(strJSFunction_FileUpload, obj );

    }else{
        JOptionPane.showMessageDialog(null, "javascript image
upload callback not defined","alert", 0);
    }
}

boolean blnChangeEvent=false;
protected void JSCallBackFunction_ChangeEvent(String strNodeName,String
strValue){

    if(!blnChangeEvent){
        blnChangeEvent=true;
        if (strJSFunction_ChangeEvent.length() > 0 ){
            Object obj[] = new Object[3];
            obj[0] = strLastRootNode;
            obj[1] = strNodeName;
            obj[2] = strValue;

```

```

        JavaScript win = JavaScript.getWindow(this);
        JavaScript doc = (JavaScript) win.getMember("document");
        JavaScript loc = (JavaScript) doc.getMember("location");

        String s = (String) loc.getMember("href");
        win.call(strJSFunction_ChangeEvent, obj );
    }
    blnChangeEvent=false;
}
}

public void setPropertyInbound(String strPropertyID,String strValue){
    String strNodeName;
    Integer intRow;
    Hashtable hshNode;

    hshNode = (Hashtable)hshTree.get(strPropertyID);
    if (hshNode != null){
        hshNode.put("currentValue",strValue);
        intRow = (Integer)hshNode.get("current_table_row");
        if (intRow != null){
            if (intRow.intValue() >=0){
                blnManualEntryMode=false;
                table.setValueAt(strValue, intRow.intValue(), 2);
            }
        }
    }
}

public void setPropertyOutbound(String strNodeName,String strValue,int
intSendToJavascript,boolean blnManualEntryMode){
    this.blnManualEntryMode = blnManualEntryMode;
    setPropertyOutbound(strNodeName,strValue,intSendToJavascript);
}

public void setPropertyOutbound(String strNodeName,String strValue,int
intSendToJavascript){
    Hashtable hshNode = (Hashtable)hshTree.get(strNodeName);

    if(hshNode != null){
        hshNode.put("currentValue",strValue);
    }

    if((intSendToJavascript == 1)&&(blnManualEntryMode)){
        JSCallBackFunction_ChangeEvent(strNodeName,strValue);
    }
}
}

class ValueCellRenderer
extends DefaultTableCellRenderer{

    Hashtable hshTree;
    ArrayList dataIDs;
    Object objParent;

    public ValueCellRenderer(Hashtable hshTree,ArrayList dataIDs,Object objParent){
        this.hshTree = hshTree;
        this.dataIDs = dataIDs;
        this.objParent = objParent;
    }

    public Component getTableCellRendererComponent(JTable table, Object value,

```

```

boolean isSelected, boolean hasFocus, int row, int column){

    String strNodeName;
    Hashtable hshNode;
    String strPropType;
    String newvalue;
    Component component;

    if(row<dataIDs.size()){
        strNodeName = (String)dataIDs.get(row);
        hshNode = (Hashtable)hshTree.get(strNodeName);
        strPropType = (String)hshNode.get("propType");
        int intCurrentState =
((Integer)hshNode.get("expandstate")).intValue();
        String str = (value == null) ? "" : value.toString();
        component = super.getTableCellRendererComponent(table, str,
isSelected, hasFocus, row, column);
        component.setBackground(new Color(255,255,255));
        component.setForeground(new Color(0,0,0));
        if(intCurrentState == 0){
            if(strPropType.equals("checkbox")){
                String strCurrentValue;
                String strTrueValue;
                String strFalseValue;
                boolean blnValue;
                String strValueList =
(String)hshNode.get("valueList");
                StringTokenizer parts= new
StringTokenizer(strValueList,"|");
                if(parts.countTokens(>1){
                    strTrueValue=parts.nextToken();
                    strFalseValue=parts.nextToken();
                }else{
                    strTrueValue = "true";
                    strFalseValue = "false";
                }
                strCurrentValue =
(String)hshNode.get("currentValue");
                if(strCurrentValue.equals(strTrueValue)){
                    blnValue=true;
                }else{
                    blnValue=false;
                }
                JCheckBox cb = new JCheckBox();
                cb.setBackground( new Color( 255, 255, 255 ));
                cb.setSelected(blnValue);
                return cb;
            }else if(strPropType.equals("color")){
                value = hshNode.get("currentValue");
                if(((String)value).length() == 7 ){
                    component.setBackground(Color.decode((String)value));
                    component.setForeground(Color.decode((String)value));
                }
            }else if(strPropType.equals("image")){
                return new JLabel(value.toString());
            }else if(strPropType.equals("textbox")){
                //value = hshNode.get("currentValue");
                JLabel l = new JLabel();
                hshNode.put("currentValue", (String)value);
                l.setText((String)value);
            }
        }
    }
}

```

```

        return 1;

    //((PropsTree)objParent).setPropertyOutbound(strNodeName, str, 1);
    }else{

    //((PropsTree)objParent).setPropertyOutbound(strNodeName, str, 1);
    }
    }else{
        component.setBackground(new Color(153,153,153));
    }
    return component;
}
return null;
}

public boolean stringToBoolean(String str){
    if (str.equals("1")) {
        return true;
    }
    str = str.toLowerCase();
    if (str.equals("true")) {
        return true;
    }
    if (str.equals("yes")) {
        return true;
    }
    return false;
}
}

class ValueCellEditor implements TableCellEditor {

    Hashtable hshTree;
    Hashtable hshCurrentNode;
    ArrayList dataIDs;

    private final static int COMBO = 0;
    private final static int BOOLEAN = 1;
    private final static int STRING = 2;
    private final static int COLOR = 3;
    private final static int IMAGE = 4;
    private final static int NUM_EDITOR = 5;

    DefaultCellEditor[] cellEditors;
    JComboBox comboBox;
    int flg;
    Object objParent;

    public ValueCellEditor(Hashtable hshTree, ArrayList dataIDs, Object objParent){
        this.hshTree = hshTree;
        this.dataIDs = dataIDs;
        this.objParent = objParent;
        cellEditors = new DefaultCellEditor[NUM_EDITOR];

        //combo
        comboBox = new JComboBox();
        comboBox.addItem("dd");
        comboBox.addItem("ee");
        cellEditors[COMBO] = new DefaultCellEditor(comboBox);
        comboBox.addItemListener(new ComboboxChangeListener(this));

        //checkbox
        JCheckBox checkBox = new JCheckBox();

```

```

checkbox.setBackground( new Color( 255, 255, 255 ));
checkbox.setOpaque( true );
cellEditors[BOOLEAN] = new DefaultCellEditor(checkbox);

//textfield
JTextField textField = new JTextField();
textField.addActionListener(new TextFieldChangeListener(this));
cellEditors[STRING] = new DefaultCellEditor(textField);

//color
JTextField color = new JTextField();
cellEditors[COLOR] = new DefaultCellEditor(color);

flg = NUM_EDITOR;
}

private class TextFieldChangeListener implements ActionListener{
    ValueCellEditor objParent;

    TextFieldChangeListener(ValueCellEditor obj){
        objParent=obj;
    }

    public void actionPerformed(ActionEvent arg0){
        try{
            objParent.setCurrentPropertyOutbound();
        }catch (Exception e) {
        }
    }
}

private class ComboboxChangeListener implements ItemListener{
    ValueCellEditor objParent;

    ComboboxChangeListener(ValueCellEditor obj){
        objParent=obj;
    }

    public void itemStateChanged(ItemEvent arg0){
        try{
            objParent.setCurrentPropertyOutbound();
        }catch (Exception e) {
        }
    }
}

public Component getTableCellEditorComponent(JTable table, Object value,
boolean isSelected, int row, int column) {

    String strNodeName;
    Hashtable hshNode;
    String strPropType;
    String newvalue;
    String strCurrentValue;

    strNodeName = (String)dataIDs.get(row);
    hshNode = (Hashtable)hshTree.get(strNodeName);
    hshCurrentNode = hshNode;
    strPropType = (String)hshNode.get("propType");
    strCurrentValue = (String)hshNode.get("currentValue");
}

```



```

        int intCurrentState = ((Integer)hshNode.get("expandstate")).intValue();
        switch(intCurrentState){
            case 0:
                if(strPropType.equals("combobox")){
// JComboBox
                    flg = COMBO;
                    String str = (value == null) ? "" :
value.toString();
                    JComboBox cb =
(JComboBox)cellEditors[COMBO].getTableCellEditorComponent(table, str, isSelected, row,
column);

                    cb.removeAllItems();

                    String strValueList =
(String)hshNode.get("valueList");

                    StringTokenizer parts= new
StringTokenizer(strValueList,"|");

                    while (parts.hasMoreTokens()) {
                        cb.addItem(parts.nextToken());
                    }
                    return cb;
                }else if(strPropType.equals("checkbox")){
// Boolean
                    flg = BOOLEAN;

                    String strTrueValue;
                    String strFalseValue;
                    String strSelection;

                    if(value==null) value="true";
                    if(value.equals("")) value="true";

                    String strValueList =
(String)hshNode.get("valueList");
                    StringTokenizer parts= new
StringTokenizer(strValueList,"|");

                    if(parts.countTokens(>1)){
                        strTrueValue=parts.nextToken();
                        strFalseValue=parts.nextToken();

                        if(String.valueOf(value).equals(strTrueValue)){
                            value="false";
                        }else
if(String.valueOf(value).equals(strFalseValue)){
                            value="true";
                        }
                    }else{
                        strTrueValue = "true";
                        strFalseValue = "false";
                    }

                    if(stringToBoolean(String.valueOf(value),strTrueValue)){
                        strSelection=strTrueValue;
                    }else{
                        strSelection=strFalseValue;
                    }
                    ((PropsTree)objParent).SetManualEntry(true);
                }
            }
        }
    }
}

```

```

        ((PropsTree)objParent).setPropertyOutbound(strNodeName, strSelection, 1);
        return
cellEditors[BOOLEAN].getTableCellEditorComponent(table, value, isSelected, row, column);
        }else if(strPropType.equals("image")){

        ((PropsTree)objParent).JSCallbackFunction_FileUpload(strNodeName, "");
        return null;
        }else if(strPropType.equals("color")){
        Color c;
        c = JColorChooser.showDialog(null, "Color Picker", null);
        String strRed   = "00"+Integer.toHexString(c.getRed() &
0x000000ff).toUpperCase();
        String strGreen = "00"+Integer.toHexString(c.getGreen() &
0x000000ff).toUpperCase();
        String strBlue  = "00"+Integer.toHexString(c.getBlue() &
0x000000ff).toUpperCase();
        value =
                "#" +
                strRed.substring(strRed.length()-
2, strRed.length()) +
                strGreen.substring(strGreen.length()-
2, strGreen.length()) +
                strBlue.substring(strBlue.length()-
2, strBlue.length());

        ((PropsTree)objParent).setPropertyOutbound((String)strNodeName, (String)value, 1);
        return null;
        }
        break;
        case 1:
        case 2:
        return null;
    }
    JTextField textField = new JTextField();
    textField.addActionListener(new TextFieldChangeListener(this));
    cellEditors[STRING] = new DefaultCellEditor(textField);
    Component component =
cellEditors[STRING].getTableCellEditorComponent(table, value, isSelected, row, column);
    component.setBackground(new Color(255,255,255));
    component.setForeground(new Color(0,0,0));
    flg = STRING;
    component.setEnabled(true);
    return component;
}

public Object getCellEditorValue() {
    switch (flg) {
        case COMBO:
            String str = (String)comboBox.getSelectedItemAt();
            return str;
        case BOOLEAN:
            return cellEditors[flg].getCellEditorValue();
        case STRING:
            return cellEditors[flg].getCellEditorValue();
        default:
            return null;
    }
}

public Component getComponent() {
    return cellEditors[flg].getComponent();
}

```

```

public boolean stopCellEditing() {
    setCurrentPropertyOutbound();
    return cellEditors[flg].stopCellEditing();
}

public void setCurrentPropertyOutbound() {
    String strNodeName = (String)hshCurrentNode.get("name");

    ((PropsTree)objParent).setPropertyOutbound((String)strNodeName,String.valueOf(get
CellEditorValue()),1,true);
}

public void cancelCellEditing() {
    cellEditors[flg].cancelCellEditing();
}

public boolean isCellEditable(EventObject anEvent) {
    return true;
}

public boolean shouldSelectCell(EventObject anEvent) {
    return cellEditors[flg].shouldSelectCell(anEvent);
}

public void addCellEditorListener(CellEditorListener l) {
    cellEditors[flg].addCellEditorListener(l);
}

public void removeCellEditorListener(CellEditorListener l) {
    cellEditors[flg].removeCellEditorListener(l);
}

public void setClickCountToStart(int n) {
    cellEditors[flg].setClickCountToStart(n);
}

public int getClickCountToStart() {
    return cellEditors[flg].getClickCountToStart();
}

public boolean stringToBoolean(String str,String strTrueValue){
    str = str.toLowerCase();
    strTrueValue = strTrueValue.toLowerCase();

    if (str.equals(strTrueValue)){
        return true;
    }

    if (str.equals("true")){
        return true;
    }

    return false;
}
}

```

```

class Item{
    String exp;
    String name;
    Object value;

    public Item(String exp, String name, Object value){
        this.exp = exp;
        this.name = name;
    }
}

```

```

        this.value = value;
    }
}

class ItemTableModel extends AbstractTableModel{
    List data;
    List columnNames;

    public ItemTableModel(List data, List columnNames){
        this.data = data;
        this.columnNames = columnNames;
    }

    public String getColumnName(int col) { return columnNames.get(col).toString(); }

    public int getRowCount() { return data.size(); }

    public int getColumnCount() { return columnNames.size(); }

    public Class getColumnClass(int column) { return getValueAt(0, column).getClass(); }

    public boolean isCellEditable(int row, int column){
        if (column < 2) return false;
        return true;
    }

    public Object getValueAt(int row, int column){
        Item item = (Item)data.get( row );

        switch ( column ){
            case 0: return item.exp;
            case 1: return item.name;
            case 2: return item.value;
        }
        return null;
    }

    public void setValueAt(Object value, int row, int column){
        Item item = (Item)data.get( row );

        switch ( column ){
            case 0:
                item.exp = (String)value;
                break;
            case 1:
                item.name = (String)value;
                break;
            case 2:
                item.value = value;
                break;
        }
        fireTableCellUpdated(row, column);
    }
}

class ExpandCellRenderer
extends DefaultTableCellRenderer{

    public ExpandCellRenderer(){
    }

    public Component getTableCellRendererComponent(JTable table, Object value,
boolean isSelected, boolean hasFocus, int row, int column){
        this.setText((String)value);
    }
}

```

```

        this.setForeground(Color.WHITE);
        this.setBackground(new Color(153,153,153));
        this.setHorizontalAlignment(CENTER);
        return this;
    }
}
class NameCellRenderer
extends DefaultTableCellRenderer{
    ArrayList dataIDs;
    Hashtable hshTree;

    public NameCellRenderer(ArrayList dataIDs,Hashtable hshTree){
        this.dataIDs=dataIDs;
        this.hshTree = hshTree;
    }

    public Component getTableCellRendererComponent(JTable table, Object value,
boolean isSelected, boolean hasFocus, int row, int column){
        this.setText((String)value);
        if(row<dataIDs.size()){
            String strNodeName = (String)dataIDs.get(row);
            Hashtable hshNode = (Hashtable)hshTree.get(strNodeName);
            int intCurrentState =
((Integer)hshNode.get("expandstate")).intValue();
            if(intCurrentState != 0){
                this.setForeground(Color.WHITE);
                this.setBackground(new Color(153,153,153));
            }else{
                this.setForeground(Color.BLACK);
                this.setBackground(Color.WHITE);
            }
        }
        return this;
    }
}
}
<?php
//*****
//          File Name: Queries.php
//*****

include 'appconfig.php';
include 'sql.php';

if(isset($_POST['act'])){
    $act = $_POST['act'];
    $id = $_POST['wid'];
    switch($act){
        case 'add':
            SQL_SP_AddQuery();
            break;
        case 'save':
            $db =
odbc_connect($viewstate['connectstring'], "", "", SQL_CUR_USE_ODBC);
            $pagecount = $_POST['wp_idx_n']+0;
            for($i=0;$i<$pagecount;$i++){
                $fid = $_POST['wp_i_'].$i;
                if (isset($_POST['wp_'].$i.'_disable'])){
                    $disabled = $_POST['wp_'].$i.'_disable'+0;
                }else{
                    $disabled = 0;
                }
                if (isset($_POST['wp_'].$i.'_startpage'])){
                    $startpg = $_POST['wp_'].$i.'_startpage'+0;

```

```

        }else{
            $startpg = 0;
        }
        $qname = $_POST['wp_'.$i.'_name'];
        $sql = SQL_Queries_2($qname,$fid);
        $result=odbc_exec($db,$sql);
    }
    odbc_close($db);
    break;
case 'view':
    Redirect('QueryView.php?id='.$id);
    break;
case 'edit':
    Redirect('QueryByExample.php?id='.$id);
    break;
case 'delete':
    deleteQuery($id);
    break;
}
}

function deleteQuery($queryid){
    global $db;

    $sql = SQL_QueryByExample_3_1($queryid);
    odbc_exec($db,$sql);
    $sql = SQL_QueryByExample_3_2($queryid);
    odbc_exec($db,$sql);
    $sql = SQL_QueryByExample_3_3($queryid);
    odbc_exec($db,$sql);
    $sql = SQL_QueryByExample_3_4($queryid);
    odbc_exec($db,$sql);
}
?>

<html>
<head>
<title>PHP Test</title>

<script language="javascript">
    function submitAction(strAction,id){
        //alert(strAction+':'+id);
        document.frm.act.value=strAction;
        document.frm.wid.value=id;
        document.frm.submit();
    }
</script>
</head>

<body>
<form name="frm" method="post" action="Queries.php">

<!-- img src="images/AD20.jpg" -->

<?php
    $menuselection=3;
    include 'headermenu.php';
?>

<br>
<table width=60%>
<tr>

```

```

<td nowrap align=center width=5% style="color:#ffffff;background-color:#2053a3;font-
family:arial;font-weight:700;font-size:10pt">
    Queries     
</td>
<td>    </td>
</tr>
</table>

<center>
<table style="font-family:arial;font-size:10pt; border-top: 1px solid #3366CC"
cellspacing=0 cellpadding=1 WIDTH=100%>
  <tr>
    <td nowrap align=center style="background-color:#c2cde1; color:#000000;
border-right: 1px solid #3366CC; border-bottom: 1px solid #3366CC; border-left: 1px solid
#3366CC">Query Name</td>
    <td nowrap width=50 align=center style="background-color:#c2cde1;
color:#000000; border-right: 1px solid #3366CC; border-bottom: 1px solid
#3366CC">View</td>
    <td nowrap width=50 align=center style="background-color:#c2cde1;
color:#000000; border-right: 1px solid #3366CC; border-bottom: 1px solid
#3366CC">Edit</td>
    <td nowrap width=50 align=center style="background-color:#c2cde1;
color:#000000; border-right: 1px solid #3366CC; border-bottom: 1px solid
#3366CC">Delete</td>
  </TR>

  <?php
    $db = odbc_connect($viewstate['connectstring'], "", "", SQL_CUR_USE_ODBC);
    $result=odbc_exec($db,"select * from Queries");
    $i=0;
    while(odbc_fetch_row($result)){
      $fid=odbc_result($result,"ID");
      //print "Result is ".odbc_result($result,"PageName");

      outputLine('<input type=hidden name="wp_i_'. $i.'"
value="'. $fid.'">');
      outputLine('<tr>');
      outputLine('
      <td nowrap align=center style="background-
color:#EEEEEE; color:#000000; border-right: 1px solid #3366CC; border-bottom: 1px solid
#3366CC; border-left: 1px solid #3366CC"><input name="wp_'. $i.'"_name" style="width:100%"
type="text" value="'.odbc_result($result,"QueryName").'"></td>');
      outputLine('
      <td nowrap width=50 align=center
style="background-color:#EEEEEE; color:#000000; border-right: 1px solid #3366CC; border-
bottom: 1px solid #3366CC"><a
href="javascript:submitAction(\'view\',\''.odbc_result($result,"ID").'\')" style="text-
decoration:none"></a></td>');
      outputLine('
      <td nowrap width=50 align=center
style="background-color:#EEEEEE; color:#000000; border-right: 1px solid #3366CC; border-
bottom: 1px solid #3366CC"><a
href="javascript:submitAction(\'edit\',\''.odbc_result($result,"ID").'\')" style="text-
decoration:none"></a></td>');
      outputLine('
      <td nowrap width=50 align=center
style="background-color:#EEEEEE; color:#000000; border-right: 1px solid #3366CC; border-
bottom: 1px solid #3366CC"><a
href="javascript:submitAction(\'delete\',\''.odbc_result($result,"ID").'\')" style="text-
decoration:none;border-style:none"></a></td>');
      outputLine('</TR>');
      $i++;
    }
    outputLine('<input type=hidden name="wp_idx_n" value="'. $i.'">');
    odbc_close($db);

```

```

        function outputLine($strText){
            print $strText."\n";
        }

        //;/$result = odbc_exec($db,"SELECT FirstName, LastName FROM Employees
ORDER BY LastName");
        ?>
        <tr>
            <td colspan=6 width=100%0><input type="Button" Value="Add"
onClick="submitAction('add','')">&nbsp;<input type="Button" Value="Save"
onClick="submitAction('save','')"></td>

        </tr>

</table>
</center>

<input type="hidden" value="" Name="act">
<input type="hidden" value="" Name="wid">

</form>

<?php
    include 'mainfootlogin.php';
?>

</body>
</html>

<?php
//*****
//          File Name: QueryView.php
//*****

    include 'appconfig.php';
    include 'sql.php';

    $q = "";
    if(isset($_GET['id'])){
        $id = $_GET['id'];
        $sql = SQL_QueryView_1($id);
        $result=odbc_exec($db,$sql);
        if(odbc_fetch_row($result)){
            $q=odbc_result($result,'sql_statement');
        }
    }
?>

<html>

<head>
    <title>PHP Test</title>

</head>

<body>
<form name="frm" method="post" action="DBQuery.php">

<?php
    $menuselection=3;

```



```

        include 'headermenu.php';
?>

<br>
<b>Query</b>
<br>
<!-- a href="">Spreadsheet</a -->

<script language="javascript">

        function redirect(url){
                document.frm.action=url;
                document.frm.submit();
        }
</script>

<br>
<table border=0 cellpadding=2 cellspacing=0>

<?php

        if($q != ""){

                $db = odbc_connect($viewstate['connectstring'], "", "", SQL_CUR_USE_ODBC);

                $result=odbc_exec($db,$q);
                print "<TR>";
                for($i=1;$i<=odbc_num_fields($result);$i++){
                        if($i==1){
                                print '<TH style="background-color:#DFDFDF;border-right:
1px solid #000000; border-bottom: 1px solid #000000;border-top: 1px solid #000000;border-
left: 1px solid #000000">';
                        }else{
                                print '<TH style="background-color:#DFDFDF;border-right:
1px solid #000000; border-bottom: 1px solid #000000;border-top: 1px solid #000000">';
                        }
                        print odbc_field_name($result,$i);
                        print "</TH>";
                }
                print "</TR>";
                while(odbc_fetch_row($result)){
                        print "<TR>";
                        for($i=1;$i<=odbc_num_fields($result);$i++){
                                if($i==1){
                                        print '<TD style="border-right: 1px solid #000000;
border-bottom: 1px solid #000000; border-left: 1px solid #000000">';
                                }else{
                                        print '<TD style="border-right: 1px solid #000000;
border-bottom: 1px solid #000000">';
                                }
                                print odbc_result($result,odbc_field_name($result,$i));
                                print "</TD>";
                        }
                        print "</TR>";
                }
                odbc_close($db);
        }

?>
</table>
<br>
<input type="Button" onClick="redirect('Queries.php')" value="Back">
</form>

```

```

</body>
</html>

<?php
//*****
//          File Name: sql.php
//*****
if(!isset($LIB_SQL)){
    $LIB_SQL=1;
    function SQL_ControlList_1(){
        return "SELECT * FROM ControlType WHERE Abs(RootNode)=1 ORDER BY ID";
    }

    function SQL_ControlList_2($id){
        return "SELECT * FROM ControlType WHERE ParentNodeID=".$id." ORDER BY ID";
    }
//2:0
    function SQL_ControlList2_1(){
        global $DB_PACKAGE;

        switch($DB_PACKAGE){
            case "MSSQL":
                $sql = "SELECT " .
                    "GroupName,Name,DisplayName,ImageURL,Disabled " .
                    "from ControlType " .
                    "Order By GroupNodeID,GroupNode Desc ";
                break;
            case "MYSQL":
                $sql = "SELECT " .
                    "Abs(GroupNode) As
'GroupName',Name,DisplayName,ImageURL,Abs(Disabled) As 'Disabled' " .
                    "from ControlType " .
                    "Order By GroupNodeID,Abs(GroupNode) Desc";
                break;
            case "ACCESS":
                $sql = "SELECT " .
                    "GroupName,Name,DisplayName,ImageURL,Disabled " .
                    "from ControlType " .
                    "Order By GroupNodeID,Abs(GroupNode) Desc";
                break;
        }

        return $sql;
    }
//1:3
    function SQL_ControlPropertyList_1(){
        return "SELECT " .
            " CP.*, " .
            " CT.Name AS 'ControlType', " .
            " CT.DisplayName AS 'ControlTypeDisp', " .
            " CT.Disabled " .
            "FROM ControlProperty CP,ControlType CT " .
            "Where (CT.Disabled <> 1) Or (CT.Disabled Is Null) " .
            " And CP.ControlTypeID=CT.ID " .
            " And Abs(RootNode)=1 " .
            "Order BY DisplayName ";
    }

    function SQL_ControlPropertyList_2($id){
        return "SELECT " .
            " CP.*, " .

```

```

        "          CT.Name AS 'ControlType', " .
        "          CT.DisplayName AS 'ControlTypeDisp', " .
        "          CT.Disabled " .
        "FROM    ControlProperty CP " .
        "LEFT JOIN ControlType CT ON CP.ControlTypeID=CT.ID " .
        "Where (CT.Disabled <> 1) Or (CT.Disabled Is Null) " .
        "And ParentNodeID=".$id." ORDER BY DisplayName";
    }
//:5
function SQL_ControlPropertyList2_1(){
    global $DB_PACKAGE;

    switch($DB_PACKAGE){
        case "MSSQL":
            $sql = "SELECT " .
            "          CP.*, " .
            "          CT.Name AS 'ControlType', " .
            "          CT.DisplayName AS 'ControlTypeDisp', " .
            "          CT.Disabled " .
            "FROM    ControlProperty CP " .
            "LEFT JOIN ControlType CT ON CP.ControlTypeID=CT.ID " .
            "Where (CT.Disabled <> 1) Or (CT.Disabled Is Null) " .
            "ORDER BY CP.ControlTypeID, Abs(CP.RootNode) DESC,
CP.ParentNodeID,CP.ID";
            break;
        case "MYSQL":
            $sql = "SELECT " .
            "          CP.ID, " .
            "          Coalesce(Abs(CP.RootNode),0) As 'RootNode'," .
            "          Coalesce(Abs(CP.GroupNode),0) As 'GroupNode'," .
            "          CP.ParentNodeID,CP.ControlTypeID," .
            "          Coalesce(Abs(CP.CssProp),0) As 'CssProp'," .
            "          Coalesce(CP.CssName,'') As 'CssName'," .
            "          Coalesce(CP.CssJSName,'') As 'CssJSName'," .
            "          Coalesce(CP.DisplayName,'') As 'DisplayName'," .
            "          Coalesce(CP.ValueList,'') As 'ValueList'," .
            "          Coalesce(CP.DefaultValue,'') As 'DefaultValue'," .
            "          Coalesce(Abs(CP.ReadOnly),0) As 'ReadOnly'," .
            "          Coalesce(Abs(CP.Visible),0) As 'Visible'," .
            "          Coalesce(CP.Type,'') As 'Type'," .
            "          Coalesce(CT.Name,'') AS 'ControlType'," .
            "          Coalesce(CT.DisplayName,'') AS 'ControlTypeDisp'," .
            "          Coalesce(Abs(CT.Disabled),0) As 'Disabled' " .
            "FROM    ControlProperty CP " .
            "LEFT JOIN ControlType CT ON CP.ControlTypeID=CT.ID " .
            "Where (CT.Disabled <> 1) Or (CT.Disabled Is Null) " .
            "ORDER BY CP.ControlTypeID, Abs(CP.RootNode) Desc,
CP.ParentNodeID,CP.ID";
            break;
        case "ACCESS":
            $sql = "SELECT " .
            "          CP.*, " .
            "          CT.Name AS ControlType, " .
            "          CT.DisplayName AS ControlTypeDisp, " .
            "          CT.Disabled " .
            "FROM    ControlProperty CP " .
            "LEFT JOIN ControlType CT ON CP.ControlTypeID=CT.ID " .
            "Where (CT.Disabled <> 1) Or (CT.Disabled Is Null) " .
            "ORDER BY CP.ControlTypeID, Abs(CP.RootNode) DESC,
CP.ParentNodeID,CP.ID";
            break;
    }
}

```

```

        return $sql;
    }
//1:6
function SQL_Login_1($login,$pw){
    return "select id,name,login,email,password,connectstring,databasetype
from account Where login='".$login."' And password='".$pw."'";
}
//1:7
function SQL_WebPages_1(){
    return "Exec AddWebPage";
}

function SQL_WebPages_2($startpg,$disabled,$pgname,$fid){
    return "Update WebPages SET
StartPage='".$startpg."',Disable='".$disabled."',PageName='".$pgname.'" WHERE ID='".$fid;
}

function SQL_WebPages_3($webformid){
    return "Delete From WebPages Where ID='".$webformid;
}

//2:9

function SQL_GenerateWebPage_1($webpageid){
    global $DB_PACKAGE;

    switch($DB_PACKAGE){
        case "MSSQL":
            $sql=
                "SELECT " .
                "    WPC.ID AS ID," .
                "    WPC.WebPageID AS 'WebPageID'," .
                "    [Name] as 'ControlType'," .
                "    'field_'+convert(varchar(50),WPC.ID) AS
'ControlID'," .
                "    CT.GetFromLibrary " .
                "FROM WebPageControl WPC " .
                "    LEFT JOIN ControlType CT ON
WPC.ControlTypeID = CT.ID " .
                "WHERE WPC.WebPageID='".$webpageid;
            break;
        case "MYSQL":
            $sql=
                "SELECT " .
                "    WPC.ID AS ID," .
                "    WPC.WebPageID AS 'WebPageID'," .
                "    Name as 'ControlType'," .
                "    Concat('field_',cast(WPC.ID as char)) AS
'ControlID'," .
                "    CT.GetFromLibrary " .
                "FROM WebPageControl WPC " .
                "    LEFT JOIN ControlType CT ON
WPC.ControlTypeID = CT.ID " .
                "WHERE WPC.WebPageID='".$webpageid;
            break;
        case "ACCESS":
            $sql=
                "SELECT
                WebPageControl.ID AS ID, " .
                "    WebPageControl.WebPageID AS WebPageID, " .
                "    'field_'+Cstr(ID) AS ControlID, " .
                "    (
                Select GetFromLibrary " .

```

```

ControlType.ID " .
"          From ControlType " .
"          Where WebPageControl.ControlTypeID =
ControlType.ID " .
"          ) As GetFromLibrary, " .
"          (
"          Select Name " .
"          From ControlType " .
ControlType.ID " .
"          Where WebPageControl.ControlTypeID =
"          ) As ControlType " .
"FROM WebPageControl " .
"WHERE WebPageID=".$webpageid;
break;
}
return $sql;
}

function SQL_GenerateWebPage_2($responsePage){
return "Select ID From WebPages Where PageName='".$responsePage.'"";
}

function SQL_GenerateWebPage_3($id){
global $DB_PACKAGE;

switch($DB_PACKAGE){
case "MSSQL":
    $sql= "Select " .
"        WPC.ID AS ID, " .
"        WPC.WebPageID AS 'WebPageID', " .
"        Coalesce(Name,'') AS 'ControlType', " .
"        'field_'+convert(varchar(50),WPC.ID) AS
'ControlID', " .
"        CP.ID As 'PropID', " .
"        Coalesce(CP.CssProp,'') As 'CssProp', " .
"        Coalesce(CP.CssJSName , '') AS 'PropName', " .
"        Coalesce(CP.CssName,'') As 'CssName', " .
"        Coalesce(WPCP.Val,'') AS 'PropValue', " .
"        Coalesce(CP.DefaultValue,'') As
'DefaultValue' " .
"FROM ControlProperty CP " .
"    LEFT OUTER JOIN ControlType CT ON
CT.ID=CP.ControlTypeID " .
"    INNER JOIN WebPageControl WPC ON
WPC.ControlTypeID = CT.ID " .
"    LEFT OUTER JOIN WebPageControlProp WPCP ON
(WPCP.WebPageControlID=WPC.ID AND WPCP.ControlPropID=CP.ID ) " .
"WHERE WPC.ID=".$id;
break;
case "MYSQL":
    $sql= "Select " .
"        WPC.ID AS ID, " .
"        WPC.WebPageID AS 'WebPageID', " .
"        Coalesce(Name,'') AS 'ControlType', " .
"        concat('field_',cast(WPC.ID as char)) AS
'ControlID', " .
"        Coalesce(CP.CssProp,'') As 'CssProp', " .
"        CP.ID As 'PropID', " .
"        Coalesce(CP.CssJSName , '') AS 'PropName', " .
"        Coalesce(CP.CssName,'') As 'CssName', " .
"        Coalesce(WPCP.Val,'') AS 'PropValue', " .
"        Coalesce(CP.DefaultValue,'') As
'DefaultValue' " .

```

```

"FROM ControlProperty CP " .
"      LEFT OUTER JOIN ControlType CT ON
CT.ID=CP.ControlTypeID " .
"      INNER JOIN WebPageControl WPC ON
WPC.ControlTypeID = CT.ID " .
"      LEFT OUTER JOIN WebPageControlProp WPCP ON
(WPCP.WebPageControlID=WPC.ID AND WPCP.ControlPropID=CP.ID ) " .
"WHERE WPC.ID=".$id;
break;
case "ACCESS":
$sql=
"SELECT WebPageControl.ID, " .
"      WebPageControlProp.ID As PID, " .
"      WebPageControl.WebPageID, " .
"      ControlType.Name+' ' AS ControlType, " .
"      'field_'+Cstr(WebPageControl.ID) AS
ControlID, " .
"      ControlProperty.CssProp As CssProp, " .
"      ControlProperty.ID As PropID, " .
"      ControlProperty.CssJSName+' ' As PropName, " .
"      ControlProperty.CssName+' ' As CssName, " .
"      WebPageControlProp.Val+' ' As PropValue, " .
"      ControlProperty.DefaultValue+' ' As
DefaultValue " .
"FROM WebPageControlProp " .
"RIGHT JOIN (controlproperty INNER JOIN " .
"      ( " .
"      (WebPageControl INNER JOIN WebPages ON
WebPageControl.WebPageID = WebPages.ID) " .
"      INNER JOIN controltype ON
WebPageControl.ControlTypeID = controltype.ID " .
"      ) ON controlproperty.ControlTypeID =
controltype.ID " .
"      ) ON WebPageControlProp.ControlPropID =
controlproperty.ID " .
"Where WebPageControl.ID=".$id." " .
"And (WebPageControlProp.WebPageControlID =
WebPageControl.ID Or (WebPageControlProp.ID Is Null))";
break;
}
return $sql;
}

function SQL_GenerateWebPage_4($webpageid){
global $DB_PACKAGE;

switch($DB_PACKAGE){
case "MSSQL":
case "MYSQL":
return "select Val from WebPageControlProp WPCP " .
"Inner Join ControlProperty CP On CP.ID=WPCP.ControlPropID
" .
"Inner Join ControlType CT On CT.ID=CP.ControlTypeID " .
"Inner Join WebPageControl WPC On
WPCP.WebPageControlID=WPC.ID " .
"Where WPC.WebPageID=".$webpageid." " .
"And CT.name='Screen' " .
"And CP.CssName='TableName' ";
break;
case "ACCESS":
return
"SELECT Val " .

```

```

        "FROM WebPageControl " .
        "INNER JOIN (controltype " .
        "    INNER JOIN (controlproperty " .
        "        INNER JOIN WebPageControlProp ON
controlproperty.ID = WebPageControlProp.ControlPropID " .
        "    )    ON controltype.ID =
controlproperty.ControlTypeID " .
        ")    ON WebPageControl.ID =
WebPageControlProp.WebPageControlID " .
        "Where WebPageControl.WebPageID=".$webpageid." And
ControlType.name='Screen' " .
        "And ControlProperty.CssName='TableName'";
        break;
    }

}

function SQL_GenerateWebPage_5($tablename,$tableid){
    return "SELECT * FROM ".$tablename." WHERE ID=".$tableid;
}

function SQL_GenerateWebPage_6($tablename){
    return "SELECT * FROM ".$tablename;
}

function SQL_GenerateWebPage_8($wid,$ctltype,$prop){
    global $DB_PACKAGE;

    switch($DB_PACKAGE){
        case "MSSQL":
        case "MYSQL":
            return "select Val from WebPageControlProp WPCP " .
                "Inner Join ControlProperty CP On CP.ID=WPCP.ControlPropID
                "Inner Join ControlType CT On CT.ID=CP.ControlTypeID " .
                "Inner Join WebPageControl WPC On
WPCP.WebPageControlID=WPC.ID " .
                "Where WPC.WebPageID=".$wid." " .
                "And CT.name='".$ctltype.'" " .
                "And CP.CssName='".$prop.'" ";
            break;
        case "ACCESS":
            return
            "SELECT Val " .
            "FROM WebPageControl " .
            "INNER JOIN (controltype " .
            "    INNER JOIN (controlproperty " .
            "        INNER JOIN WebPageControlProp ON
controlproperty.ID = WebPageControlProp.ControlPropID " .
            "    )    ON controltype.ID =
controlproperty.ControlTypeID " .
            ")    ON WebPageControl.ID =
WebPageControlProp.WebPageControlID " .
            "Where WebPageControl.WebPageID=".$wid." And
ControlType.name='".$ctltype.'" " .
            "And ControlProperty.CssName='".$prop.'" ";
            break;
    }
}

function SQL_GenerateWebPage_9($editForm){
    return "Select ID From WebPages Where PageName='".$editForm.'" ";
}

```

```

function SQL_GenerateWebPage_10($lookupTable,$where){
    return "SELECT * FROM ".$lookupTable.'"'.$where;
}

function SQL_GenerateWebPage_11($cid){
    return 'Select Val ' .
        'From WebPageControlProp wcp,ControlProperty cp ' .
        'Where wcp.ControlPropID=cp.ID ' .
        'And wcp.WebPageControlID='.$cid . ' ' .
        'And CssName=\'LookupTable\'';
}

function SQL_GenerateWebPage_12($table,$kv){
    return "DELETE FROM ".$table." WHERE ID=".$kv;
}

function SQL_GenerateWebPage_13($pg){
    return "Select * From WebPages Where PageName='".$pg."'";
}

function SQL_GenerateWebPage_14($wid,$ctname,$cssname){
    return "Select * " .
        "From " .
        "    WebPageControlProp WPCP, " .
        "    ControlProperty CP, " .
        "    ControlType CT, " .
        "    WebPageControl WPC " .
        "Where WPC.WebPageID=".$wid." " .
        "And CT.Name = '".$ctname.'" " .
        "And CP.CssName='".$cssname.'" " .
        "And CP.ID=WPCP.ControlPropID " .
        "And CT.ID=CP.ControlTypeID " .
        "And WPCP.WebPageControlID=WPC.ID ";
}

function SQL_GenerateWebPage_15($tablename){
    return "SELECT * FROM UserTable WHERE TableName='".$tablename."'";
}

function SQL_GenerateWebPage_16($tableid){
    return "SELECT * FROM UserTable WHERE ID=".$tableid;
}

function SQL_GenerateWebPage_17($siteid){
    return "select id,name,login,email,password,connectstring,databasetype
from account Where id=".$siteid;
}

//11:19
function SQL_ReportDesignerDesigner_1($id){
    global $DB_PACKAGE;

    switch($DB_PACKAGE){
        case "MSSQL":
            $sql = "SELECT " .
                "    WPC.ID AS ID, " .
                "    WPC.WebPageID AS 'WebPageID', " .
                "    Name as 'ControlType', " .
                "    'field_'+convert(varchar(50),WPC.ID) AS 'ControlID',
                "    CT.GetFromLibrary " .
                "FROM WebPageControl WPC " .
                "    LEFT JOIN ControlType CT ON WPC.ControlTypeID =
CT.ID " .

```



```

        "WHERE WebPageID=".$id;
        break;
    case "MYSQL":
        $sql = "SELECT " .
            " WPC.ID AS ID, " .
            " WPC.WebPageID AS 'WebPageID', " .
            " Name as 'ControlType', " .
            " concat('field_',cast(WPC.ID As char)) AS
'ControlID', " .
            " Abs(CT.GetFromLibrary) As 'GetFromLibrary' " .
            "FROM WebPageControl WPC " .
            " LEFT JOIN ControlType CT ON WPC.ControlTypeID =
CT.ID " .
            "WHERE WebPageID=".$id;
        break;
    case "ACCESS":
        $sql = "SELECT " .
            " WPC.ID AS ID, " .
            " WPC.WebPageID, " .
            " Name as ControlType, " .
            " 'field_'+Cstr(WPC.ID) AS ControlID, " .
            " CT.GetFromLibrary " .
            "FROM WebPageControl WPC " .
            " LEFT JOIN ControlType CT ON WPC.ControlTypeID =
CT.ID " .
            "WHERE WebPageID=".$id;
        break;
    }
    return $sql;
}

function SQL_ReportDesignerDesigner_2($id){
    global $DB_PACKAGE;

    switch($DB_PACKAGE){
        case "MSSQL":
            $sql = "Select " .
                " WPC.ID AS ID, " .
                " WPCP.ID AS PID, " .
                " WPC.WebPageID AS 'WebPageID', " .
                " Coalesce([Name],'') AS 'ControlType', " .
                " 'field_'+convert(varchar(50),WPC.ID) AS 'ControlID',
                " Coalesce(CP.CssProp,'') As 'CssProp', " .
                " CP.ID AS 'PropID', " .
                " Coalesce(CP.CssJSName , '') AS 'PropName', " .
                " Coalesce(CP.CssName,'') As 'CssName', " .
                " Coalesce(WPCP.Val,'') AS 'PropValue', " .
                " Coalesce(CP.DefaultValue,'') As 'DefaultValue' " .
                "FROM ControlProperty CP " .
                " LEFT OUTER JOIN ControlType CT ON
CT.ID=CP.ControlTypeID " .
                " INNER JOIN WebPageControl WPC ON WPC.ControlTypeID =
CT.ID " .
                " LEFT OUTER JOIN WebPageControlProp WPCP ON
(WPCP.WebPageControlID=WPC.ID AND WPCP.ControlPropID=CP.ID ) " .
                "WHERE WebPageID=".$id;
            break;
        case "MYSQL":
            $sql = "Select " .
                " WPC.ID AS ID, " .
                " WPCP.ID AS PID, " .
                " WPC.WebPageID AS 'WebPageID', " .

```

```

        Coalesce(Name, '') AS 'ControlType', " .
        concat('field_', cast(WPC.ID as char)) AS
'ControlID', " .
        CP.ID AS 'PropID', " .
        Coalesce(CP.CssProp, '') As 'CssProp', " .
        Coalesce(CP.CssJSName, '') AS 'PropName', " .
        Coalesce(CP.CssName, '') As 'CssName', " .
        Coalesce(WPCP.Val, '') AS 'PropValue', " .
        Coalesce(CP.DefaultValue, '') As 'DefaultValue' " .
"FROM ControlProperty CP " .
"    LEFT OUTER JOIN ControlType CT ON
CT.ID=CP.ControlTypeID " .
"    INNER JOIN WebPageControl WPC ON WPC.ControlTypeID =
CT.ID " .
"    LEFT OUTER JOIN WebPageControlProp WPCP ON
(WPCP.WebPageControlID=WPC.ID AND WPCP.ControlPropID=CP.ID ) " .
"WHERE WebPageID=".$id;
break;
case "ACCESS":
    $sql = "Select " .
        "    WebPageControl.ID, " .
        "    (        Select ID " .
        "        From    WebPageControlProp " .
        "        Where
WebPageControlProp.WebPageControlID=WebPageControl.ID " .
        "        And
WebPageControlProp.ControlPropID=ControlProperty.ID " .
        "        )        As PID, " .
        "    WebPageControl.WebPageID, " .
        "    ControlType.Name+' ' AS ControlType, " .
        "    'field_'+Cstr(WebPageControl.ID) AS ControlID, " .
        "    ControlProperty.CssProp As CssProp, " .
        "    ControlProperty.ID As PropID, " .
        "    ControlProperty.CssJSName+' ' As PropName, " .
        "    ControlProperty.CssName+' ' As CssName, " .
        "    (        Select Val " .
        "        From    WebPageControlProp " .
        "        Where
WebPageControlProp.WebPageControlID=WebPageControl.ID " .
        "        And
WebPageControlProp.ControlPropID=ControlProperty.ID " .
        "        )+' ' As PropValue, " .
        "    ControlProperty.DefaultValue+' ' As DefaultValue " .
        "From    WebPageControl,ControlType,ControlProperty " .
        "Where    WebPageControl.ControlTypeID=ControlType.ID " .
        "And      ControlProperty.ControlTypeID=ControlType.ID " .
        "And      WebPageControl.WebPageID=".$id;
break;
    }
return $sql;
}
}
//2:21
function SQL_ReportDesignerFooter_3($strType){
return "SELECT * FROM ControlType WHERE RootNode <> 1 AND GroupNode <> 1
AND Name='".$strType."'";
}
function SQL_ReportDesignerFooter_4($ID,$wid,$lngControlTypeID){
return "INSERT INTO WebPageControl(ID,WebPageID,ControlTypeID) VALUES
(".$ID.", ".$wid.", ".$lngControlTypeID.)";
}

```

```

function SQL_ReportDesignerFooter_5($strType){
    return "SELECT * FROM ControlType WHERE RootNode <> 1 AND GroupNode <> 1
AND Name='". $strType. "'";
}

function SQL_ReportDesignerFooter_7($lngControlTypeID,$strPropName){
    return "SELECT * FROM ControlProperty WHERE RootNode <> 1 AND GroupNode <>
1 AND ControlTypeID='". $lngControlTypeID. "' AND CssJSName='". $strPropName. "'";
}

function SQL_ReportDesignerFooter_8($ID2,$ID,$lngControlPropID,$strPropValue){
    return "INSERT INTO WebPageControlProp
(ID,WebPageControlID,ControlPropID,Val)
VALUES('.$ID2.', '$ID.', '$lngControlPropID.', '$strPropValue.')";
}

function SQL_ReportDesignerFooter_9($strPropName,$ID){
    return "select CP.ID,CssJSName from WebPageControlProp WPCP left join
ControlProperty CP ON CP.ID=WPCP.ControlPropID WHERE CssJSName='". $strPropName. "' AND
WebPageControlID='". $ID;
}

function SQL_ReportDesignerFooter_10($strPropValue,$ID,$strPropName){
    return "UPDATE WebPageControlProp SET Val='". $strPropValue. "' WHERE
WebPageControlID='". $ID. "' AND ControlPropID=(SELECT CP.ID FROM WebPageControlProp WPCP
LEFT JOIN ControlProperty CP ON CP.ID=WPCP.ControlPropID WHERE
WPCP.WebPageControlID='". $ID. "' AND CssJSName='". $strPropName. "')";
}

function SQL_ReportDesignerFooter_11(){
    return "select coalesce(max(ID),0)+1 AS 'ID' From WebPageControlProp";
}

function SQL_ReportDesignerFooter_12($strType){
    return "SELECT * FROM ControlType WHERE RootNode <> 1 AND GroupNode <> 1
AND Name='". $strType. "'";
}

function SQL_ReportDesignerFooter_13($lngControlTypeID,$strPropName){
    return "SELECT * FROM ControlProperty WHERE RootNode <> 1 AND GroupNode <>
1 AND ControlTypeID='". $lngControlTypeID. "' AND CssJSName='". $strPropName. "'";
}

function
SQL_ReportDesignerFooter_14($lngWebControlPropID,$ID,$lngControlPropID,$strPropValue){
    return "Insert INTO WebPageControlProp
(ID,WebPageControlID,ControlPropID,Val) VALUES
('.$lngWebControlPropID.', '$ID.', '$lngControlPropID.', '$strPropValue.')";
}

function SQL_ReportDesignerFooter_15($ID){
    return "Delete From WebPageControl Where ID='". $ID;
}

function SQL_ReportDesignerFooter_16($propID,$propValue){
    return "UPDATE WebPageControlProp SET Val='". $propValue. "' WHERE
ID='". $propID;
}

function SQL_ReportDesignerFooter_17($ID){
    return "Delete From WebPageControlProp Where WebPageControlID = '". $ID;
}

```

```

//14:35
function SQL_Tables_2(){
    return "select * from UserTable";
}
//2:37

function SQL_TableView_3($id){
    return "select * from UserTable Where ID=".$id;
}

//4:41
function SQL_TableDataView_1($id){
    return "select * from UserTable Where ID=".$id;
}

function SQL_TableDataView_3($tablename){
    return "select * from ".$tablename;
}
//3:44

function SQL_Queries_2($qname,$fid){
    return "Update Queries SET QueryName='".$qname.'" WHERE ID=".$fid;
}
//2:46
function SQL_QueryEdit_1($sql_statement,$id){
    return "Update Queries SET sql_statement='".$sql_statement.'" WHERE
ID=".$id;
}

function SQL_QueryEdit_2($id){
    return "Select * From Queries Where ID=".$id;
}
//2:48
function SQL_QueryView_1($id){
    return "SELECT * FROM Queries WHERE ID=".$id;
}
//1:49
function SQL_newacc_1($name,$email,$login,$pw){
    return "Exec AddUpdateAccount
'".$name."','".$email."','".$login."','".$pw."'";
}
//1:50

function SQL_QueryByExample_1(){
    return "SELECT * FROM userTable";
}

function SQL_QueryByExample_2($tablename){
    return "SELECT * FROM ".$tablename;
}

function SQL_QueryByExample_3_1($queryid){

    $sql=
    "Delete " .
    "From QueryFilter " .
    "Where QueryFilterRowID In ( " .
    "    Select ID " .
    "    From QueryFilterRow " .
    "    Where QueryTableID In ( " .
    "        Select ID " .
    "        From QueryTable " .
    "        Where QueryID=".$queryid.

```

```

        "        ) " .
        "        ) ";
    return $sql;
}

function SQL_QueryByExample_3_2($queryid){
    $sql=
    "Delete " .
    "From QueryFilterRow " .
    "Where QueryTableID In ( " .
    "        Select ID " .
    "        From QueryTable " .
    "        Where QueryID=".$queryid.
    "        ) ";
    return $sql;
}

function SQL_QueryByExample_3_3($queryid){
    $sql=
    "Delete " .
    "From QueryTable " .
    "Where QueryID=".$queryid;

    return $sql;
}

function SQL_QueryByExample_3_4($queryid){
    $sql=
    "Delete " .
    "From Queries " .
    "Where ID=".$queryid;

    return $sql;
}

function
SQL_QueryByExample_5($id,$queryid,$tablename,$jointype,$jointotable,$ck,$fk,$sel){
    $sql = "INSERT INTO QueryTable
(ID,QueryID,tablename,jointype,jointotable,ck,fk,selected) " .
    "Values(" .
    "".$id.", " .
    "".$queryid.", " .
    "".$tablename.", " .
    "".$jointype.", " .
    "".$jointotable.", " .
    "".$ck.", " .
    "".$fk.", " .
    "".$sel."" .
    ")";

    return $sql;
}

function SQL_QueryByExample_7($id,$queryid,$tableid,$row,$boolsep){
    $sql = "INSERT INTO QueryFilterRow (ID,QueryTableID,row,BoolSeparator) " .
    "Values(" .

```

```

        "$id.", ".
        "$stableid.", ".
        "$row.", ".
        "$boolsep." ""
    );

    return $sql;
}

function
SQL_QueryByExample_9($id,$queryid,$stableid,$queryfilterrowid,$fieldname,$fieldfilter){
    $sql = "INSERT INTO QueryFilter (ID,QueryFilterRowID,FieldName,Filter) "
        "Values("
        "$id.", ".
        "$queryfilterrowid.", ".
        "$fieldname.", ".
        "$fieldfilter." ""
    );

    return $sql;
}

function SQL_QueryByExample_10($queryid){
    return "select * From QueryTable Where QueryID=".$queryid;
}

function SQL_QueryByExample_11($stableid){
    return "select * From QueryFilterRow Where QueryTableID=".$stableid;
}

function SQL_QueryByExample_12($queryfilterrowid){
    return "select * From QueryFilter Where
QueryFilterRowID=".$queryfilterrowid;
}

function SQL_QueryByExample_13($queryid,$sql){
    return "UPDATE Queries SET sql_statement='".$fixSQL($sql)."'";
}

function SQL_QueryByExample_14($tablename){
    global $DB_PACKAGE;

    $sql='';
    switch($DB_PACKAGE){
        case "MSSQL":
            $sql = "select COLUMN_NAME AS 'Field' From
Information_SCHEMA.Columns Where Table_Name='".$tablename.'"'";
            break;
        case "MYSQL":
        case "ACCESS":
            $sql = "SHOW COLUMNS FROM ".$tablename;
            break;
    }

    return $sql;
}

function SQL_QueryByExample_15($queryfilterrowid,$fieldname){
    return "SELECT ID FROM QueryFilter Where
QueryFilterRowID=".$queryfilterrowid." AND FieldName='".$fieldname.'"'";
}
}

```

```

function
SQL_QueryByExample_16($id,$queryid,$stableid,$queryfilterrowid,$fieldname,$fieldfilter){
    $sql = "UPDATE QueryFilter Set ".
        "Filter='".fixSQL($fieldfilter)." ".
        "Where ID=".$id;

    return $sql;
}

function SQL_qbe_buildquery_1($queryid){
    return "SELECT * FROM QueryTable Where QueryID=".$queryid;
}
function SQL_qbe_buildquery_2($stableid){
    return "SELECT * FROM QueryFilterRow Where QueryTableID=".$stableid." ORDER
BY ID";
}
function SQL_qbe_buildquery_3($queryfilterrowid){
    return "SELECT * FROM QueryFilter Where
QueryFilterRowID=".$queryfilterrowid." ORDER BY ID";
}

function SQL_DesignerInfo_1($webpageid){
    return "SELECT PageName FROM WebPages Where ID=".$webpageid;
}

function SQL_MaintainAccount_1($siteid){
    return "select * from account Where ID=".$siteid;
}

function SQL_GetNextID($tablename){

    global $DB_PACKAGE;

    switch($DB_PACKAGE){
        case "MSSQL":
        case "MYSQL":
            $sql = "Select Coalesce(Max(ID),0)+1 As 'NewID' From
".$tablename."";
            break;
        case "ACCESS":
            $sql = "Select iif(isnull(Max(ID)),0,Max(ID))+1 As NewID
From ".$tablename;
            break;
    }

    return $sql;
}

function SQL_ColumnQuery($table){
    return "Select * From ".$table." WHERE 1=2";
}
//////////stored procedure equivalents. MySql doesnt have them yet

function SQL_SP_AddWebPage(){
    global $ConnectString;
    global $DB_PACKAGE;
    global $db;

    $sql = SQL_GetNextID('WebPages');
    $result = odbc_exec($db,$sql);
    odbc_fetch_row($result);
}

```

```

$cid=odbc_result($result,"NewID");

$sql = "Select ID From ControlType Where name='Screen'";
$result = odbc_exec($db,$sql);
odbc_fetch_row($result);
$ctid=odbc_result($result,"ID");

$sql = SQL_GetNextID('WebPageControl');

$result = odbc_exec($db,$sql);
odbc_fetch_row($result);
$wpcid=odbc_result($result,"NewID");

$sql = "Insert Into WebPages(ID) VALUES (". $cid. ")";
odbc_exec($db,$sql);

$sql = "Insert Into WebPageControl(ID,WebPageID,ControlTypeID) VALUES
( ". $wpcid. ", ". $cid. ", ". $ctid. ")";
odbc_exec($db,$sql);
}

function SQL_SP_GnerateSchema($wid){
global $ConnectionString;
global $DB_PACKAGE;
global $db;

$sql = "Select PropValue " .
"FROM LoadControlPropsView " .
"WHERE WebPageID=" . $wid. " AND PropName='TableName'";

//for each table, add it if it doesnt exist
$result=odbc_exec($db,$sql);
while(odbc_fetch_row($result)){
    $tablename=odbc_result($result,"PropValue");
    SQL_SP_AddNewTable($tablename);
}

//now add the columns
switch($DB_PACKAGE){
    case "MSSQL":
        $sql = "Select " .
" WPC.ID AS ID, " .
" WPC.WebPageID AS 'WebPageID', " .
" Coalesce(Name,'') AS 'ControlType', " .
" 'field_'+convert(varchar(50),WPC.ID) AS 'ControlID',
" Coalesce(CP.CssProp,'') As 'CssProp', " .
" Coalesce(CP.CssJSName ,'') AS 'PropName', " .
" Coalesce(CP.CssName,'') AS 'CssName', " .
" Coalesce(WPCP.Val,'') AS 'PropValue', " .
" Coalesce(CP.DefaultValue,'') As 'DefaultValue' " .
"FROM ControlProperty CP " .
" LEFT OUTER JOIN ControlType CT ON
CT.ID=CP.ControlTypeID " .
" INNER JOIN WebPageControl WPC ON WPC.ControlTypeID =
CT.ID " .
" LEFT OUTER JOIN WebPageControlProp WPCP ON
(WPCP.WebPageControlID=WPC.ID AND WPCP.ControlPropID=CP.ID ) " .
"WHERE WebPageID=" . $wid. " AND PropName='TableName'";
        break;
    case "MYSQL":
    case "ACCESS":
        $sql = "Select " .

```



```

        "        WPC.ID AS ID, " .
        "        WPC.WebPageID AS 'WebPageID', " .
        "        Coalesce(Name, '') AS 'ControlType', " .
        "        concat('field_', cast(WPC.ID As char)) AS
'ControlID', " .
        "        Coalesce(CP.CssProp, '') As 'CssProp', " .
        "        Coalesce(CP.CssJSName, '') AS 'PropName', " .
        "        Coalesce(CP.CssName, '') As 'CssName', " .
        "        Coalesce(WPCP.Val, '') AS 'PropValue', " .
        "        Coalesce(CP.DefaultValue, '') As 'DefaultValue' " .
        "FROM ControlProperty CP " .
        "        LEFT OUTER JOIN ControlType CT ON
CT.ID=CP.ControlTypeID " .
        "        INNER JOIN WebPageControl WPC ON WPC.ControlTypeID =
CT.ID " .
        "        LEFT OUTER JOIN WebPageControlProp WPCP ON
(WPCP.WebPageControlID=WPC.ID AND WPCP.ControlPropID=CP.ID ) " .
        "WHERE WebPageID='".$wid."' AND PropName='TableName'";
        break;
    }

    $result=odbc_exec($db,$sql);
    while(odbc_fetch_row($result)){
        $fieldname = odbc_result($result, "PropValue");
        SQL_SP_AddNewTableField ($tablename,$fieldname);
    }

}

function SQL_SP_TableListSQL($tablename){
    global $DB_PACKAGE;

    switch($DB_PACKAGE){
        case 'MSSQL':
            $sql = "SELECT COLUMN_NAME FROM INFORMATION_SCHEMA.COLUMNS
WHERE TABLE_NAME = '".$tablename.'";
            break;
        case 'MYSQL':
            $sql = "SHOW TABLES LIKE '".$tablename.'";
            break;
        case "ACCESS":
            $sql = "SELECT MSysObjects.Name FROM MSysObjects " .
            "WHERE ((MSysObjects.Flags)=0) AND ((MSysObjects.Type)=1)
            "And MSysObjects.Name='".$tablename.'" ";
            break;
    }

    return $sql;
}

function SQL_SP_AddNewTable($tablename){
    global $ConnectionString;
    global $DB_PACKAGE;
    global $db;

    if(strlen($tablename)>0){
        $sql = SQL_SP_TableListSQL($tablename);
        $result2=odbc_exec($db,$sql);
        if(!odbc_fetch_row($result2)){
            switch($DB_PACKAGE){
                case 'MSSQL':

```

```

NOT NULL) ON [PRIMARY]";
                                $sql="CREATE TABLE ".$tablename." (ID int
                                break;
                                case 'MYSQL':
                                case "ACCESS":
                                $sql="CREATE TABLE ".$tablename." (ID
integer NOT NULL PRIMARY KEY);";
                                break;
                                }
                                }
                                odbc_exec($db,$sql);
                                $sql = "SELECT TableName FROM UserTable WHERE TableName =
'" . $tablename. "'";
                                //print $sql;
                                $result2=odbc_exec($db,$sql);
                                if(!odbc_fetch_row($result2)){
                                $sql = "INSERT INTO UserTable (TableName) VALUES
('".$tablename."')";
                                //print $sql;
                                odbc_exec($db,$sql);
                                }
                                }
                                odbc_close($db);
                                }

function SQL_SP_AddNewTableFieldByTableID($tid,$fieldname){
    global $db;

    $sql = "SELECT TableName From UserTable WHERE ID=".$tid;
    $result = odbc_exec($db,$sql);
    if(odbc_fetch_row($result)){
        $tablename = odbc_result($result,"TableName");
        SQL_SP_AddNewTableField($tablename,$fieldname);
    }
}

function SQL_SP_AddNewTableField($tablename,$fieldname){
    global $ConnectString;
    global $DB_PACKAGE;
    global $db;
    global $viewstate;

    if(strlen($fieldname)>0){
        $sql = SQL_SP_TableListSQL($tablename);
        $result=odbc_exec($db,$sql);
        if(odbc_fetch_row($result)){

            $sql = SQL_ColumnQuery($tablename);
            $result=odbc_exec($db,$sql);

            if ((odbc_field_num ($result,$fieldname)+0) <= 0){
                switch($DB_PACKAGE){
                    case 'MSSQL':
                        $sql = "ALTER TABLE ".$tablename."
ADD ".$fieldname." varchar(50) NULL";
                        break;
                    case 'MYSQL':
                        $sql = "ALTER TABLE ".$tablename."
ADD ( ".$fieldname." varchar(50) NULL)";

```

```

                                break;
                                case "ACCESS":
                                    $sql = "ALTER TABLE ".$tablename."
ADD ".$fieldname." varchar(50) NULL";
                                break;
                                }
                                odbc_close($db);
                                $db =
odbc_connect($viewstate['connectstring'], "", "", SQL_CUR_USE_ODBC);
                                odbc_exec($db, $sql);
                                }
                                }
                                }
}

```

```

function SQL_SP_TableFieldExists($tablename, $fieldname){
    global $db;
    global $DB_PACKAGE;

    if(SQL_SP_TableExists($tablename)){
        $sql = 'SELECT * From '.$tablename.' Where 1=2';
        $result = odbc_exec($db, $sql);
        odbc_fetch_row($result);
        for($i=1; $i<=odbc_num_fields($result); $i++){
            if (odbc_field_name($result, $i) == $fieldname){
                return true;
            }
        }
    }
    return false;
}

```

```

function SQL_SP_TableExists($tablename){
    global $db;
    global $DB_PACKAGE;

    switch($DB_PACKAGE){
        case 'MSSQL':
            $sql = "SELECT COLUMN_NAME FROM INFORMATION_SCHEMA.COLUMNS
WHERE TABLE_NAME = '".$tablename."'";
            break;
        case 'MYSQL':
            $sql = "SHOW COLUMNS FROM ".$tablename;
            break;
        case "ACCESS":
            $sql = "SELECT MSysObjects.Name FROM MSysObjects " .
            "WHERE (((MSysObjects.Flags)=0) AND ((MSysObjects.Type)=1))
            "And MSysObjects.Name='".$tablename."' ";
            break;
    }
    if(isset($sql)){
        $result = odbc_exec($db, $sql);
        if(odbc_fetch_row($result)){
            return true;
        }
    }
}

```

```

        return false;
    }

function SQL_SP_UpdateSchema($tablename,$colname,$dt,$dl){
    global $db;
    global $DB_PACKAGE;

    switch($DB_PACKAGE){
        case 'MSSQL':
            if($dl>5000) $dl=5000;
            break;
        case 'MYSQL':
        case "ACCESS":
            if($dl>255) $dl=255;
            break;
    }

    if(($colname != 'ID')&&(strlen($colname) > 0)){
        if(SQL_SP_TableExists($tablename)){
            if(!SQL_SP_TableFieldExists($tablename,$colname)){
                $sql='Alter Table '.$tablename.' Add '.$colname;
                if($dt=='int'){
                    $sql .= ' int';
                }else{
                    $sql .= (' '.$dt.'('.$dl.')');
                }
                $sql .= ' NULL';
                odbc_exec($db,$sql);
            }else{
                //add temp column
                $sql = 'Alter Table '.$tablename.' Add
'. $colname.' _tmp';

                if($dt=='int'){
                    $sql .= ' int';
                }else{
                    $sql .= (' '.$dt.'('.$dl.')');
                }
                $sql .= ' NULL';
                odbc_exec($db,$sql);

                //update contents in temp column
                if($dt=='int'){
                    $sql='Update '.$tablename.' Set
'. $colname.' _tmp = '.$colname;
                }else{
                    $sql='Update '.$tablename.' Set
'. $colname.' _tmp = left('.$colname.', '.$dl.')';
                }
                odbc_exec($db,$sql);

                //drop old column
                $sql = 'ALTER TABLE '.$tablename.' DROP COLUMN
'. $colname;

                odbc_exec($db,$sql);

                //readd old column
                $sql = 'Alter Table '.$tablename.' Add '.$colname;
                if($dt=='int'){
                    $sql .= ' int';
                }else{
                    $sql .= (' '.$dt.'('.$dl.')');
                }
                $sql .= ' NULL';
            }
        }
    }
}

```

```

        odbc_exec($db,$sql);

        //update contents in old column
        $sql='Update '.$tablename.' Set

.$colname.='.$colname.'_tmp';
        odbc_exec($db,$sql);

        //drop temp column
        $sql = 'ALTER TABLE '.$tablename.' DROP COLUMN

.$colname.'_tmp';
        odbc_exec($db,$sql);
    }
}

function SQL_SP_AddQuery(){
    global $db;

    $sql = SQL_GetNextID('Queries');

    $result = odbc_exec($db,$sql);

    $id="0";
    if(odbc_fetch_row($result)){
        $id=odbc_result($result,"NewID");
        $sql = "Insert Into Queries(ID) VALUES ( ".$id." )";
        odbc_exec($db,$sql);
    }

    return $id;
}

function SQL_SP_AddUpdateAccount($username,$useremail,$userlogin,$userpassword){
    global $MasterConnectionString;
    global $application_data_location;
    global $DB_PACKAGE;

    $db = odbc_connect($MasterConnectionString,"","",SQL_CUR_USE_ODBC);
    //print $MasterConnectionString;

    $sql="Select * From Account Where Login='".$userlogin."'";

    $result = odbc_exec($db,$sql);
    if(odbc_fetch_row($result)){
        $sql = "Update
        Account "
        "Set name='".$username."' , "
        " email='".$useremail."' , "
        " Password='".$userpassword."' "
        "Where Login='".$userlogin."' ";

        odbc_exec($db,$sql);
    }else{
        $dbname='Designer_'.$userlogin;
        $sql="Select ConnectString,DatabaseType From Account Where
Login='master'";

        $result = odbc_exec($db,$sql);
        if(odbc_fetch_row($result)){
            $connectstring=odbc_result($result,"ConnectString");
            $connectstring = ereg_replace('%login%', $userlogin,
$connectstring);

```

```

        $databasetype = odbc_result($result,"DatabaseType");

        switch($DB_PACKAGE){
            case 'MSSQL':
            case 'MYSQL':
                $sql = "Insert Into Account " .
                    "(name,email,login,password,ConnectionString,DatabaseType) " .
                    "Values " .
                    ("'".$username."'','".$useremail."'','".$userlogin."'','".$userpassword."'','.$connectstring."'','".$databasetype."'");
                $connectstring.'"') ";
                break;
            case "ACCESS":
                $sql = SQL_GetNextID('Account');
                $result = odbc_exec($db,$sql);
                $id=odbc_result($result,"NewID");
                $sql = "Insert Into Account " .
                    "(ID,name,email,login,password,ConnectionString,DatabaseType) " .
                    "Values " .
                    ("'".$id."'','".$username."'','".$useremail."'','".$userlogin."'','".$userpassword."'','.$connectstring."'','".$databasetype."'");
                $connectstring.'"') ";
                break;
        }
        odbc_exec($db,$sql);

        //print $databasetype;

        if($databasetype=='ACCESS'){
            $connectstring =
($connectstring.';DefaultDir='.$application_data_location);
        }

        SQL_SP_CreateDatabase($dbname,$connectstring);
    }

}

odbc_close($db);

}

function SQL_SP_CreateDatabase($dbname,$connectstring){
    global $DB_PACKAGE;
    global $MasterConnectionString;
    global $application_data_location;

    $mdb = odbc_connect($MasterConnectionString,"","",SQL_CUR_USE_ODBC);

    switch($DB_PACKAGE){
        case "MSSQL":
        case "MYSQL":
            SQL_SP_CreateDatabase2($mdb,$dbname,$connectstring);
            break;
        case "ACCESS":
            $access_dbname=$application_data_location.$dbname.".mdb";
    }
}

```

```

$access_master_dbname=$application_data_location."designer_master.mdb";
copy($access_master_dbname, $access_dbname);
$db = odbc_connect($connectstring, "", "", SQL_CUR_USE_ODBC);
SQL_HP_CreateTables_Access($db);
SQL_HP_CreateSessionTable($db);
break;
}

odbc_close($mdb);
}

function SQL_SP_CreateDatabase2($dbname,$connectstring){
global $DB_PACKAGE;

switch($DB_PACKAGE){
case "MSSQL":
$sql =
        "Select * ".
        "From information_schema.schemata ".
        "Where CATALOG_NAME='".$dbname."'";
        break;
case "MYSQL":
$sql = "show databases like '".$dbname."'";
        break;
case "ACCESS":
        break;
}
$result = odbc_exec($mdb,$sql);
if(!odbc_fetch_row($result)){
switch($DB_PACKAGE){
case "MSSQL":
        $sql = "CREATE DATABASE ".$dbname.";";
        break;
case "MYSQL":
case "ACCESS":
        $sql = "CREATE DATABASE ".$dbname.";";
        break;
}
odbc_exec($mdb,$sql);
$db = odbc_connect($connectstring, "", "", SQL_CUR_USE_ODBC);

switch($DB_PACKAGE){
case "MSSQL":
        //SQL_HP_CreateTables_MSSQL($db);
        break;
case "MYSQL":
case "ACCESS":
        SQL_HP_CreateTables_MySQL($db);
        break;
}

        $sql = "insert into ".$dbname.".controltype select * from
controltype order by id;";
        //print $sql;
        odbc_exec($mdb,$sql);

        $sql = "insert into ".$dbname.".ControlProperty select * from
ControlProperty order by id;";
        //print $sql;
        odbc_exec($mdb,$sql);

switch($DB_PACKAGE){
case "MSSQL":

```

```

        SQL_HP_CreateFKs_MSSQL($db);
        break;
    case "MYSQL":
    case "ACCESS":
        SQL_HP_CreateFKs_MySQL($db);
        break;
    }
    SQL_HP_CreateSessionTable($db);
    odbc_close($db);
}

}

function SQL_HP_CreateSessionTable($db){
    global $DB_PACKAGE;

    if(!SQL_SP_TableExists('Session')){
        switch($DB_PACKAGE){
            case "MSSQL":
                $sql =
                "CREATE TABLE Session ( " .
                "     ID integer NOT NULL PRIMARY KEY, " .
                "     SessionID varchar (50) NULL , " .
                "     TimeDateStamp varchar (50) NULL " .
                ")";
                break;
            case "MYSQL":
                $sql =
                "CREATE TABLE Session ( " .
                "     ID integer NOT NULL PRIMARY KEY, " .
                "     SessionID varchar (50) NULL , " .
                "     TimeDateStamp varchar (50) NULL " .
                ")";
                break;
            case "ACCESS":
                $sql =
                "CREATE TABLE Session ( " .
                "     ID integer NOT NULL PRIMARY KEY, " .
                "     SessionID varchar (50) NULL , " .
                "     TimeDateStamp varchar (50) NULL " .
                ")";
                break;
        }

        if(isset($sql)){
            odbc_exec($db,$sql);
        }
    }
}

function SQL_HP_CreateTables_Access($db){

    $sql =
    "Drop Table Account";
    odbc_exec($db,$sql);

    $sql =
    "CREATE TABLE Queries ( " .
    "     ID integer NOT NULL PRIMARY KEY, " .
    "     QueryName varchar (50) NULL , " .
    "     sql_statement Text NULL " .
    ")";
    odbc_exec($db,$sql);
}

```



```

$sql =
"CREATE TABLE UserTable ( " .
"     ID AutoIncrement NOT NULL primary key, " .
"     TableName varchar (50) NULL " .
" );";
odbc_exec($db,$sql);

$sql =
"CREATE TABLE WebPages ( " .
"     ID integer NOT NULL PRIMARY KEY, " .
"     StartPage bit NULL , " .
"     Disable bit NULL , " .
"     PageName varchar (100) NULL " .
" );";
odbc_exec($db,$sql);

$sql=
"CREATE TABLE WebPageControl ( " .
"     ID integer NOT NULL PRIMARY KEY, " .
"     WebPageID integer NULL , " .
"     ControlTypeID integer NULL " .
" );";
odbc_exec($db,$sql);

$sql =
"CREATE TABLE WebPageControlProp ( " .
"     ID integer NOT NULL PRIMARY KEY, " .
"     WebPageControlID integer NULL , " .
"     ControlPropID integer NULL , " .
"     Val varchar (255) NULL " .
" );";
odbc_exec($db,$sql);

$sql =
"CREATE TABLE QueryTable ( " .
"     ID integer NOT NULL PRIMARY KEY, " .
"     QueryID integer NULL , " .
"     tablename varchar(255) NULL , " .
"     jointype varchar(50) NULL , " .
"     jointotable varchar(50) NULL , " .
"     ck varchar(50) NULL , " .
"     fk varchar(50) NULL , " .
"     selected varchar(50) NULL " .
" );";
odbc_exec($db,$sql);

$sql =
"CREATE TABLE QueryFilterRow ( " .
"     ID integer NOT NULL PRIMARY KEY, " .
"     QueryTableID integer NULL , " .
"     row integer NULL , " .
"     BoolSeperator varchar(50) NULL " .
" );";
odbc_exec($db,$sql);

$sql =
"CREATE TABLE QueryFilter ( " .
"     ID integer NOT NULL PRIMARY KEY, " .
"     QueryFilterRowID integer NULL , " .
"     FieldName varchar(255) NULL , " .
"     Filter varchar(50) NULL " .
" );";
odbc_exec($db,$sql);

```

```
}
```

```
function SQL_HP_CreateTables_MSSQL($db){
    $sql =
    "CREATE TABLE ControlType ( " .
    "     ID integer NOT NULL PRIMARY KEY, " .
    "     RootNode bit NULL , " .
    "     GroupNode bit NULL , " .
    "     ParentNodeID integer NULL , " .
    "     Name varchar (50) NULL , " .
    "     DisplayName varchar (50) NULL , " .
    "     GetFromLibrary bit NULL , " .
    "     GroupNodeID integer NULL , " .
    "     ButtonMenu bit NULL , " .
    "     ImageURL varchar (100) NULL , " .
    "     Disabled bit NULL " .
    ")";

    odbc_exec($db,$sql);

    $sql =
    "CREATE TABLE ControlProperty ( " .
    "     ID integer NOT NULL PRIMARY KEY, " .
    "     RootNode bit NULL , " .
    "     GroupNode bit NULL , " .
    "     ParentNodeID integer NULL , " .
    "     ControlTypeID integer NULL , " .
    "     CssProp integer NULL , " .
    "     CssName varchar (50) NULL , " .
    "     CssJSName varchar (50) NULL , " .
    "     DisplayName varchar (50) NULL , " .
    "     ValueList varchar (255) NULL , " .
    "     DefaultValue varchar (50) NULL , " .
    "     ReadOnly bit NULL , " .
    "     Visible bit NULL , " .
    "     Type varchar (50) NULL " .
    ")";

    odbc_exec($db,$sql);

    $sql =
    "CREATE TABLE Queries ( " .
    "     ID integer NOT NULL PRIMARY KEY, " .
    "     QueryName varchar (50) NULL , " .
    "     sql_statement Text NULL " .
    ")";

    odbc_exec($db,$sql);

    $sql =
    "CREATE TABLE UserTable ( " .
    "     ID integer AUTO_INCREMENT NOT NULL PRIMARY KEY, " .
    "     TableName varchar (50) NULL " .
    ")";

    odbc_exec($db,$sql);

    $sql =
    "CREATE TABLE WebPages ( " .
    "     ID integer NOT NULL PRIMARY KEY, " .
    "     StartPage bit NULL , " .
    "     Disable bit NULL , " .
    "     PageName varchar (100) NULL " .
    ")";

    odbc_exec($db,$sql);
}
```

```

$sql=
"CREATE TABLE WebPageControl ( " .
"     ID integer NOT NULL PRIMARY KEY, " .
"     WebPageID integer NULL , " .
"     ControlTypeID integer NULL " .
");";
odbc_exec($db,$sql);

$sql =
"CREATE TABLE QueryTable ( " .
"     ID integer NOT NULL PRIMARY KEY, " .
"     QueryID integer NULL , " .
"     tablename varchar(255) NULL , " .
"     jointype varchar(50) NULL , " .
"     jointotable varchar(50) NULL , " .
"     ck varchar(50) NULL , " .
"     fk varchar(50) NULL , " .
"     selected varchar(50) NULL " .
");";
odbc_exec($db,$sql);

$sql =
"CREATE TABLE QueryFilterRow ( " .
"     ID integer NOT NULL PRIMARY KEY, " .
"     QueryTableID integer NULL , " .
"     row varchar(255) integer NULL , " .
"     BoolSeperator varchar(50) NULL" .
");";
odbc_exec($db,$sql);

$sql =
"CREATE TABLE QueryFilter ( " .
"     ID integer NOT NULL PRIMARY KEY, " .
"     QueryFilterRowID integer NULL , " .
"     fieldName varchar(255) integer NULL , " .
"     Filter varchar(50) NULL" .
");";
odbc_exec($db,$sql);
}

function SQL_HP_CreateTables_MySQL($db){

    $sql =
    "CREATE TABLE ControlType ( " .
    "     ID integer NOT NULL PRIMARY KEY, " .
    "     RootNode bit NULL , " .
    "     GroupNode bit NULL , " .
    "     ParentNodeID integer NULL , " .
    "     Name varchar (50) NULL , " .
    "     DisplayName varchar (50) NULL , " .
    "     GetFromLibrary bit NULL , " .
    "     GroupNodeID integer NULL , " .
    "     ButtonMenu bit NULL , " .
    "     ImageURL varchar (100) NULL , " .
    "     Disabled bit NULL , " .
    "     INDEX idx_ControlType_ParentNodeID (ParentNodeID)" .
    ") TYPE=INNODB;";

    odbc_exec($db,$sql);

    $sql =

```

```

"CREATE TABLE ControlProperty ( " .
"     ID integer NOT NULL PRIMARY KEY, " .
"     RootNode bit NULL , " .
"     GroupNode bit NULL , " .
"     ParentNodeID integer NULL , " .
"     ControlTypeID integer NULL , " .
"     CssProp integer NULL , " .
"     CssName varchar (50) NULL , " .
"     CssJSName varchar (50) NULL , " .
"     DisplayName varchar (50) NULL , " .
"     ValueList varchar (255) NULL , " .
"     DefaultValue varchar (50) NULL , " .
"     ReadOnly bit NULL , " .
"     Visible bit NULL , " .
"     Type varchar (50) NULL, " .
"     INDEX idx_ControlProperty_ParentNodeID (ParentNodeID)," .
"     INDEX idx_ControlProperty_ControlTypeID (ControlTypeID)" .
") TYPE=INNODB;";
odbc_exec($db,$sql);

$sql =
"CREATE TABLE Queries ( " .
"     ID integer NOT NULL PRIMARY KEY, " .
"     QueryName varchar (50) NULL , " .
"     sql_statement Text NULL " .
") TYPE=INNODB;";
odbc_exec($db,$sql);

$sql =
"CREATE TABLE UserTable ( " .
"     ID integer AUTO_INCREMENT NOT NULL PRIMARY KEY, " .
"     TableName varchar (50) NULL " .
") TYPE=INNODB;";
odbc_exec($db,$sql);

$sql =
"CREATE TABLE WebPages ( " .
"     ID integer NOT NULL PRIMARY KEY, " .
"     StartPage bit NULL , " .
"     Disable bit NULL , " .
"     PageName varchar (100) NULL " .
") TYPE=INNODB;";
odbc_exec($db,$sql);

$sql=
"CREATE TABLE WebPageControl ( " .
"     ID integer NOT NULL PRIMARY KEY, " .
"     WebPageID integer NULL , " .
"     ControlTypeID integer NULL, " .
"     INDEX idx_WebPageControl_WebPageID (WebPageID)" .
") TYPE=INNODB;";
odbc_exec($db,$sql);

$sql =
"CREATE TABLE WebPageControlProp ( " .
"     ID integer NOT NULL PRIMARY KEY, " .
"     WebPageControlID integer NULL , " .
"     ControlPropID integer NULL , " .
"     Val varchar (255) NULL, " .
"     INDEX idx_WebPageControlProp_WebPageControlID (WebPageControlID)," .
"     INDEX idx_WebPageControlProp_ControlPropID (ControlPropID)" .
") TYPE=INNODB;";
odbc_exec($db,$sql);

```

```

$sql =
"CREATE TABLE QueryTable ( " .
" ID integer NOT NULL PRIMARY KEY, " .
" QueryID integer NULL , " .
" tablename varchar(255) NULL , " .
" jointype varchar(50) NULL , " .
" jointotable varchar(50) NULL , " .
" ck varchar(50) NULL , " .
" fk varchar(50) NULL , " .
" selected varchar(50) NULL, " .
" INDEX idx_QueryTable_QueryID (QueryID)" .
") TYPE=INNODB;";
odbc_exec($db,$sql);

```

```

$sql =
"CREATE TABLE QueryFilterRow ( " .
" ID integer NOT NULL PRIMARY KEY, " .
" QueryTableID integer NULL , " .
" row integer NULL , " .
" BoolSeperator varchar(50) NULL," .
" INDEX idx_QueryFilterRow_QueryTableID (QueryTableID)" .
") TYPE=INNODB;";
odbc_exec($db,$sql);

```

```

$sql =
"CREATE TABLE QueryFilter ( " .
" ID integer NOT NULL PRIMARY KEY, " .
" QueryFilterRowID integer NULL , " .
" fieldName varchar(255) NULL , " .
" Filter varchar(50) NULL," .
" INDEX idx_QueryFilter_QueryFilterRowID (QueryFilterRowID)" .
") TYPE=INNODB;";
odbc_exec($db,$sql);

```

```

}

```

```

function SQL_HP_CreateFKs_MySQL($db){
    $sql = "ALTER TABLE ControlType ADD FOREIGN KEY (ParentNodeID) REFERENCES
ControlType(ID) ON DELETE CASCADE;";
    odbc_exec($db,$sql);
    $sql = "ALTER TABLE ControlProperty ADD FOREIGN KEY (ParentNodeID)
REFERENCES ControlProperty(ID) ON DELETE CASCADE;";
    odbc_exec($db,$sql);
    $sql = "ALTER TABLE ControlProperty ADD FOREIGN KEY (ControlTypeID)
REFERENCES ControlType(ID) ON DELETE CASCADE;";
    odbc_exec($db,$sql);
    $sql = "ALTER TABLE WebPageControl ADD FOREIGN KEY (WebPageID) REFERENCES
WebPages(ID) ON DELETE CASCADE;";
    odbc_exec($db,$sql);
    $sql = "ALTER TABLE WebPageControlProp ADD FOREIGN KEY (WebPageControlID)
REFERENCES WebPageControl(ID) ON DELETE CASCADE;";
    odbc_exec($db,$sql);
    $sql = "ALTER TABLE WebPageControlProp ADD FOREIGN KEY (ControlPropID)
REFERENCES ControlProperty(ID) ON DELETE CASCADE;";
    odbc_exec($db,$sql);
    $sql = "ALTER TABLE QueryFilter ADD FOREIGN KEY (QueryFilterRowID)
REFERENCES QueryFilterRow(ID) ON DELETE CASCADE;";
    odbc_exec($db,$sql);
    $sql = "ALTER TABLE QueryFilterRow ADD FOREIGN KEY (QueryTableID)
REFERENCES QueryTable(ID) ON DELETE CASCADE;";
    odbc_exec($db,$sql);
}

```

```

        $sql = "ALTER TABLE QueryTable ADD FOREIGN KEY (QueryID) REFERENCES
Queries(ID) ON DELETE CASCADE;";
        odbc_exec($db,$sql);
    }

    function SQL_HP_CreateFKs_MSSQL($db){
        $sql = "ALTER TABLE [dbo].[ControlProperty] WITH NOCHECK ADD CONSTRAINT
[PK_ControlProperty] PRIMARY KEY CLUSTERED ([ID])";
        odbc_exec($db,$sql);
        $sql = "ALTER TABLE [dbo].[ControlType] WITH NOCHECK ADD CONSTRAINT
[PK_Controls] PRIMARY KEY CLUSTERED ([ID])";
        odbc_exec($db,$sql);
        $sql = "ALTER TABLE [dbo].[Queries] WITH NOCHECK ADD CONSTRAINT
[PK_Queries] PRIMARY KEY CLUSTERED ([ID])";
        odbc_exec($db,$sql);
        $sql = "ALTER TABLE [dbo].[QueryFilter] WITH NOCHECK ADD CONSTRAINT
[PK_QueryFilter] PRIMARY KEY CLUSTERED ([ID])";
        odbc_exec($db,$sql);
        $sql = "ALTER TABLE [dbo].[QueryFilterRow] WITH NOCHECK ADD CONSTRAINT
[PK_QueryFilterRow] PRIMARY KEY CLUSTERED ([ID])";
        odbc_exec($db,$sql);
        $sql = "ALTER TABLE [dbo].[QueryTable] WITH NOCHECK ADD CONSTRAINT
[PK_QueryTable] PRIMARY KEY CLUSTERED ([ID])";
        odbc_exec($db,$sql);
        $sql = "ALTER TABLE [dbo].[UserTable] WITH NOCHECK ADD CONSTRAINT
[PK_UserTable] PRIMARY KEY CLUSTERED ([ID])";
        odbc_exec($db,$sql);
        $sql = "ALTER TABLE [dbo].[WebPageControl] WITH NOCHECK ADD CONSTRAINT
[PK_WebPageControl] PRIMARY KEY CLUSTERED ([ID])";
        odbc_exec($db,$sql);
        $sql = "ALTER TABLE [dbo].[WebPageControlProp] WITH NOCHECK ADD CONSTRAINT
[PK_WebPageControlProp] PRIMARY KEY CLUSTERED ([ID])";
        odbc_exec($db,$sql);
        $sql = "ALTER TABLE [dbo].[WebPages] WITH NOCHECK ADD CONSTRAINT
[PK_WebPages] PRIMARY KEY CLUSTERED ([ID])";
        odbc_exec($db,$sql);
        $sql = "ALTER TABLE [dbo].[ControlProperty] WITH NOCHECK ADD CONSTRAINT
[DF_ControlProperty_RootNode] DEFAULT (0) FOR [RootNode],CONSTRAINT
[DF_ControlProperty_GroupNode] DEFAULT (0) FOR [GroupNode],CONSTRAINT
[DF_ControlProperty_ReadOnly] DEFAULT (0) FOR [ReadOnly],CONSTRAINT
[DF_ControlProperty_Visible] DEFAULT (0) FOR [Visible]";
        odbc_exec($db,$sql);
        $sql = "ALTER TABLE [dbo].[ControlType] WITH NOCHECK ADD CONSTRAINT
[DF_ControlType_GetFromLibrary] DEFAULT (1) FOR [GetFromLibrary],CONSTRAINT
[DF_ControlType_Disabled] DEFAULT (0) FOR [Disabled]";
        odbc_exec($db,$sql);
        $sql = "ALTER TABLE [dbo].[WebPages] WITH NOCHECK ADD CONSTRAINT
[DF_WebPages_StartPage] DEFAULT (0) FOR [StartPage],CONSTRAINT [DF_WebPages_Disable]
DEFAULT (0) FOR [Disable],CONSTRAINT [DF_WebPages_PageName] DEFAULT (') FOR [PageName]";
        odbc_exec($db,$sql);
        $sql = "ALTER TABLE [dbo].[ControlProperty] ADD CONSTRAINT
[FK_ControlProperty_ControlProperty] FOREIGN KEY ([ParentNodeID]) REFERENCES
[dbo].[ControlProperty] ([ID]),CONSTRAINT [FK_ControlProperty_ControlType] FOREIGN KEY
([ControlTypeID]) REFERENCES [dbo].[ControlType] ([ID]) ON DELETE CASCADE";
        odbc_exec($db,$sql);
        $sql = "ALTER TABLE [dbo].[ControlType] ADD CONSTRAINT
[FK_ControlType_ControlType] FOREIGN KEY ([ParentNodeID]) REFERENCES [dbo].[ControlType]
([ID])";
        odbc_exec($db,$sql);
        $sql = "ALTER TABLE [dbo].[QueryFilter] ADD CONSTRAINT
[FK_QueryFilter_QueryFilterRow] FOREIGN KEY ([QueryFilterRowID]) REFERENCES
[dbo].[QueryFilterRow] ([ID]) ON DELETE CASCADE";
        odbc_exec($db,$sql);
    }

```

```

        $sql = "ALTER TABLE [dbo].[QueryFilterRow] ADD CONSTRAINT
[FK_QueryFilterRow_QueryTable] FOREIGN KEY ([QueryTableID]) REFERENCES [dbo].[QueryTable]
([ID]) ON DELETE CASCADE";
        odbc_exec($db,$sql);
        $sql = "ALTER TABLE [dbo].[QueryTable] ADD CONSTRAINT
[FK_QueryTable_Queries] FOREIGN KEY ([QueryID]) REFERENCES [dbo].[Queries] ([ID]) ON
DELETE CASCADE";
        odbc_exec($db,$sql);
        $sql = "ALTER TABLE [dbo].[WebPageControl] ADD CONSTRAINT
[FK_WebPageControl_ControlType] FOREIGN KEY ([ControlTypeID]) REFERENCES
[dbo].[ControlType] ([ID]) ON DELETE CASCADE ,CONSTRAINT [FK_WebPageControl_WebPages]
FOREIGN KEY ([WebPageID]) REFERENCES [dbo].[WebPages] ([ID]) ON DELETE CASCADE";
        odbc_exec($db,$sql);
        $sql = "ALTER TABLE [dbo].[WebPageControlProp] ADD CONSTRAINT
[FK_WebPageControlProp_ControlProperty] FOREIGN KEY ([ControlPropID]) REFERENCES
[dbo].[ControlProperty] ([ID]),CONSTRAINT [FK_WebPageControlProp_WebPageControl] FOREIGN
KEY ([WebPageControlID]) REFERENCES [dbo].[WebPageControl] ([ID]) ON DELETE CASCADE";
        odbc_exec($db,$sql);
    }

```

```

function fixSQL($sql){
    return ereg_replace ("'", "'", $sql);
}

```

```

}
?>

```

```

<?php

```

```

//*****
//          File Name: TableDataView.php
//*****

```

```

include 'appconfig.php';
include 'sql.php';

```

```

if(isset($_POST['wid'])){
    $sid = $_POST['wid'];
}else if(isset($_GET['wid'])){
    $sid = $_GET['wid'];
}

```

```

if(isset($_POST['act'])){
    $act = $_POST['act'];
}else if(isset($_GET['act'])){
    $act = $_GET['act'];
}

```

```

if(isset($_POST['tag'])){
    $tag = $_POST['tag'];
}else if(isset($_GET['tag'])){
    $tag = $_GET['tag'];
}

```

```

if(isset($_POST['fp'])){
    $fp = $_POST['fp'];
}else if(isset($_GET['fp'])){
    $fp = $_GET['fp'];
}

```

```

?>

```

```

<html>

```

```

<head>

```

```

<title>PHP Test</title>

```

```

<script language="javascript">
    function submitAction(strAction,id){
        switch(strAction){
            case 'save':
                document.frm.act.value = strAction;
                document.frm.wid.value = id;
                document.frm.tag.value = packData();
                document.frm.submit();
                break
        }
    }
</script>
</head>

<body onLoad="RegenTable()">
<form name="frm" method="post">

<?php
    $menuselection=2;
    include 'headermenu.php';
?>

<br>

<?php
    $db = odbc_connect($viewstate['connectstring'], "", "", SQL_CUR_USE_ODBC);

    $tablename='';
    $sql = SQL_TableDataView_1($id);
    $result=odbc_exec($db,$sql);
    if(odbc_fetch_row($result)){
        $tablename=odbc_result($result,"TableName");
    }

    if(isset($act)){
        switch($act){
            case 'save';
                $d1='__1__.';
                $d2='__2__.';
                $d3='__3__.';
                $d4='__4__.';

                $tag=$_POST['tag'];
                $section = split($d1,$tag);
                $cols = split($d2,$section[0]);
                $rows = split($d2,$section[1]);

                foreach ( $rows as $row ){
                    $datas = split($d3,$row);
                    $i=0;
                    foreach ( $datas as $data ){
                        if($cols[$i]=="ID"){
                            $sidix = $i;
                            $sidval=$data;
                        }
                        $i++;
                    }
                    $i=0;
                    if($sidval==0){

```



```

//new row
$sql=SQL_GetNextID($tablename);
$result=odbc_exec($db,$sql);
$idval=0;
if(odbc_fetch_row($result)){

    $idval=odbc_result($result,"NewID");

}

$sinto='ID';
$values=$idval;

foreach ( $datas as $data ){
    if($i != $ididx){
        if(strlen($sinto)>0){
            $sinto .= ',';
            $values .=

        }
        $sinto .= $cols[$i];
        $values .=

    }
    $i++;
}
$sql = 'Insert Into '.$tablename.'
($sinto.) Values ($values.)';

}else{
//existing row
$set='';
foreach ( $datas as $data ){
    if($i != $ididx){
        if(strlen($set)>0){
            $set .= ',';
        }
        $set .=

    }
    $i++;
}
$sql = 'Update '.$tablename.' Set
'.$set.' Where ID='.$idval;

}
odbc_exec($db,$sql);

}

break;

}
}

```

```

$sql = SQL_TableDataView_3($tablename);
$result=odbc_exec($db,$sql);

outputLine ('<table>');
outputLine ('<tr>');
outputLine ('<td nowrap align=center style="color:#ffffff;background-
color:#2053a3;font-family:arial;font-weight:700;font-size:10pt">');
outputLine ('&nbsp;Data in Table &quot;'.$tablename.'&quot;&nbsp;');
outputLine ('</td>');

```

```

        outputLine ('</tr>');
        outputLine ('</table>');
        outputLine ('<div ID="datatable"></div>');

        outputLine ('<input type=hidden name="usertable"
value="',$tablename.'">');
        ?>

<script language="javascript">
var arrTable = new Array();
var arrTableCols = new Array();

    <?php

        $row=0;
        outputLine('');

        for($i=1;$i<=odbc_num_fields($result);$i++){
            outputLine('arrTableCols['.($i-1).'] =
"'.odbc_field_name($result,$i).'";');
        }

        while(odbc_fetch_row($result)){
            outputLine('arrTable['.$row.'] = new Array();');
            for($i=1;$i<=odbc_num_fields($result);$i++){

                outputLine('arrTable['.$row.']['.odbc_field_name($result,$i).''] =
"'.odbc_result($result,odbc_field_name($result,$i)).'";');
            }
            $row++;
        }

        outputLine('');
        outputLine('var rows=',$row.';');
        outputLine('var cols='.odbc_num_fields($result).';');

        odbc_close($db);

        function outputLine($strText){
            print $strText."\\n";
        }

    ?>

function AddRow(){
    arrTable[arrTable.length] = new Array();
    rows = arrTable.length;

    for(j=0;j<cols;j++){
        arrTable[rows-1][arrTableCols[j]] = "";
    }
    arrTable[rows-1]["ID"] = "0";
    RegenTable();
}

function RegenTable(){

    var HTML='<table style="font-family:arial;font-size:10pt; border-top: 1px
solid #3366CC" cellspacing=0 cellpadding=1><TR>';
    for(i=0;i<cols;i++){
        if(arrTableCols[i] != "ID"){

```

```

        HTML += '<td nowrap align=left style="background-
color:#c2cde1; color:#000000; border-left: 1px solid #3366CC; border-right: 1px solid
#3366CC; border-bottom: 1px solid #3366CC">'+arrTableCols[i]+'</td>';
    }

    }
    HTML+='/<TR>';

    for(i=0;i<rows;i++){
        HTML += '<TR>';
        for(var j=0;j<cols;j++){
            if(arrTableCols[j] != "ID"){
                HTML += '<td nowrap align=left style="background-
color:#EEEEEE; color:#000000;border-left: 1px solid #3366CC; border-right: 1px solid
#3366CC; border-bottom: 1px solid #3366CC"><input
onBlur="updateData('+i+',\'+arrTableCols[j]+\','+this.value)" type=text name="row_'+i+'
value="'+arrTable[i][arrTableCols[j]]+' "></td>';
            }
        }
        HTML += '</TR>';
    }

    HTML+='/<TABLE>';

    var objDiv = document.getElementById("datatable");

    objDiv.innerHTML = HTML;

}

function updateData(intRow,strCol,strData){
    arrTable[intRow][strCol] = strData;
}

function packData(){
    var strData='';

    var d1='._1_.';
    var d2='._2_.';
    var d3='._3_.';
    var d4='._4_.';

    for(i=0;i<cols;i++){

        if(i>0) strData += d2;

        strData += arrTableCols[i];
    }

    strData += d1;

    for(i=0;i<rows;i++){
        if(i>0) strData += d2;

        for(var j=0;j<cols;j++){
            if(j>0) strData += d3;

            strData += arrTable[i][arrTableCols[j]];
        }
    }

    return strData;
}

```

```

</script>

<script language="javascript">

    function redirect(url){
        document.frm.action=url;
        document.frm.wid.value = <?php print $id;?>;
        document.frm.submit();
    }
</script>

<input type="Button" onClick="AddRow()" value="Add Row">
<input type="Button" onClick="submitAction('save',<?php print $id;?>)" value="Save">
<input type="Button" onClick="redirect('<?php print $fp?>.php?wid=<?php print $id;?>')"
value="Back">
<input type="hidden" name="act">
<input type="hidden" name="wid">
<input type="hidden" value="" Name="tag">
</form>
</body>
</html>
<?php
//*****
//          File Name: Tables.php
//*****

include 'appconfig.php';
include 'sql.php';

if(isset($_POST['act'])){

    $act = $_POST['act'];
    $id = $_POST['wid'];
    if (isset($_POST['tag'])){
        $tag = $_POST['tag'];
        switch($act){
            case 'add':
                $db =
odbc_connect($viewstate['connectstring'], "", "", SQL_CUR_USE_ODBC);
                //print $viewstate['connectstring'];
                $sql = SQL_SP_AddNewTable($tag);
                odbc_close($db);
                break;
            case 'view':
                Redirect('TableView.php?wid='.$id);
                break;
            case 'edit':
                Redirect('TableView.php?wid='.$id);
                break;
            case 'data':
                Redirect('TableDataView.php?fp=Tables&wid='.$id);
                break;
            case 'delete':
                break;
        }
    }
}

?>

```

```

<html>
<head>
  <title>PHP Test</title>
  <script language="javascript">
    function submitAction(strAction,id){
      switch(strAction){
        case 'add':
          var tbl = prompt("Enter New Table Name","");
          if ((tbl != null) && (tbl != "")){
            document.frm.act.value=strAction;
            document.frm.wid.value=id;
            document.frm.tag.value=tbl;
            document.frm.submit();
          }
          break;
        case "edit":
          document.frm.act.value=strAction;
          document.frm.wid.value=id;
          document.frm.submit();
          break;
        case 'data':
          document.frm.act.value=strAction;
          document.frm.wid.value=id;
          document.frm.submit();
          break;
      }
    }
  }
  //alert(strAction+' '+id);
</script>
</head>
<body>
<form name="frm" method="post" action="Tables.php">
<?php
  $menuselection=2;
  include 'headermenu.php';
?>
<br>
<table width=60%>
<tr>
<td nowrap align=center width=5% style="color:#ffffff;background-color:#2053a3;font-family:arial;font-weight:700;font-size:10pt">
  &nbsp;Tables&nbsp;
</td>
<td>&nbsp;</td>
</tr>
</table>
<center>
<table style="font-family:arial;font-size:10pt; border-top: 1px solid #3366CC"
  cellpadding=0 cellspacing=1 width=100%>
  <tr>
    <td nowrap align=left style="background-color:#c2cde1; color:#000000;
border-right: 1px solid #3366CC; border-left: 1px solid #3366CC; border-bottom: 1px solid
#3366CC">Table&nbsp;Name</td>

```



```

<?php viewstate() ?>
</form>

<?php
    include 'mainfootlogin.php';
?>

</body>
</html>

<?php
    include 'appconfig.php';
    include 'sql.php';

    $db = odbc_connect($viewstate['connectstring'], "", "", SQL_CUR_USE_ODBC);

    if(isset($_POST['wid'])){
        $id = $_POST['wid'];
    }else if(isset($_GET['wid'])){
        $id = $_GET['wid'];
    }

    if(isset($_POST['act'])){
        $act = $_POST['act'];
    }else if(isset($_GET['act'])){
        $act = $_GET['act'];
    }

    if(isset($_POST['tag'])){
        $tag = $_POST['tag'];
    }else if(isset($_GET['tag'])){
        $tag = $_GET['tag'];
    }

?>
<html>

<head>
    <title>PHP Test</title>

    <script language="javascript">
        function submitAction(strAction,id){
            switch(strAction){
                case 'add':
                    var tbl = prompt("Enter New Field Name",'');
                    if ((tbl != null) && (tbl != "")){
                        document.frm.act.value=strAction;
                        document.frm.wid.value=id;
                        document.frm.tag.value=tbl;
                        document.frm.submit();
                    }

                    break;
                case 'data':
                    document.frm.action="TableDataView.php?fp=TableView&id="+id+"&wid=<?php print
                    $id;?>";
                    document.frm.wid.value = id;

                    document.frm.submit();
                    break;
            }
        }
    </script>

```

```

        case 'save':
        case 'edit':
            document.frm.act.value = strAction;
            document.frm.wid.value = id;
            document.frm.submit();
            break;
    }
}
</script>
</head>

<body>
<form name="frm" method="post" action="TableView.php">

<?php
    $menuselection=2;
    include 'headermenu.php';
?>

<br>

<?php
    if(isset($act)){
        switch($act){
            case 'add':
                SQL_SP_AddNewTableFieldByTableID($id,$tag);
                break;
            case 'save':
                $rows=$_POST['rows'];
                $usertable=$_POST['usertable'];
                for($row=0;$row<(int)$rows;$row++){
                    $colname=$_POST['row_'.$row];
                    $dt=$_POST['dt_'.$row];
                    $dl=$_POST['dl_'.$row];

                SQL_SP_UpdateSchema($usertable,$colname,$dt,$dl);
                }
                break;
        }
    }

    $tablename='';
    $sql = SQL_TableView_3($id);
    $result=odbc_exec($db,$sql);
    if(odbc_fetch_row($result)){
        $tablename=odbc_result($result,"TableName");
    }

    outputLine ('<table>');
    outputLine ('<tr>');
    outputLine ('<td nowrap align=center style="color:#ffffff;background-
color:#2053a3;font-family:arial;font-weight:700;font-size:10pt">');
    outputLine ('&nbsp;Columns in Table &quot;'.$tablename.'&quot;&nbsp;');
    outputLine ('</td>');
    outputLine ('</tr>');
    outputLine ('</table>');

    outputLine ('<input type=hidden name="usertable"
value="'.$tablename.'">');

```



```

?>
<center>
<table style="font-family:arial;font-size:10pt; border-top: 1px solid #3366CC"
cellspacing=0 cellpadding=1 WIDTH=100%>
<tr>
<td nowrap align=left style="background-color:#c2cde1; color:#000000;
border-left: 1px solid #3366CC; border-right: 1px solid #3366CC; border-bottom: 1px solid
#3366CC">Column Name</td>
<td nowrap align=left style="background-color:#c2cde1; color:#000000;
border-right: 1px solid #3366CC; border-bottom: 1px solid #3366CC">Data Type</td>
<td nowrap align=left style="background-color:#c2cde1; color:#000000;
border-right: 1px solid #3366CC; border-bottom: 1px solid #3366CC">Length</td>
</TR>

```

```

<?php
$row=0;
$sql = SQL_ColumnQuery($tablename);
$result=odbc_exec($db,$sql);
for ($i = 1; $i <= odbc_num_fields($result); $i++){
$fieldname = odbc_field_name($result, $i);
$type = strtolower(odbc_field_type($result,$i));
if ($type=="integer") $type="int";

$len = strstr($type,"(");
if($len != false){
$type = ereg_replace($len,',',$type);
$type = ereg_replace('\(',',',$type);
$type = ereg_replace('\)',',',$type);
$len = substr($len,1,strlen($len)-2);
}else{
$len = odbc_field_len($result,$i);
}
if($type=='int') $len="0";

outputLine('<tr>');
outputLine('
color:#EEEEEE; color:#000000;border-left: 1px solid #3366CC; border-right: 1px solid
#3366CC; border-bottom: 1px solid #3366CC"><input onFocus="blur()"
style="border:none;background-color:#EEEEEE" type=text name="row_'.$row.'"
value="'.$fieldname.'"></td>');
outputLine('
color:#EEEEEE; color:#000000;border-right: 1px solid #3366CC; border-bottom: 1px solid
#3366CC">');
outputLine(DTCombo($row,$type));
outputLine('</td>');
outputLine('
color:#EEEEEE; color:#000000;border-right: 1px solid #3366CC; border-bottom: 1px solid
#3366CC">');
outputLine(DLTextBox($row,$type,$len));
outputLine('</td>');
outputLine('</TR>');
$row++;
}
odbc_close($db);

outputLine('<input type=hidden name=rows value="'.$row.'">');

function outputLine($strText){
print $strText."\n";
}

function DTCombo($row,$dt){
$MyArray = array("int","varchar","char");

```

```

        $html='<select name="dt_'. $row.' ">';
        for($i=0;$i<sizeof($MyArray);$i++){
            $html .= '<option value="'. $MyArray[$i].'" ';
            if($dt==$MyArray[$i]){
                $html .= 'selected';
            }
            $html .= '>'. $MyArray[$i];
        }
        $html .= '</select>';
        return $html;
    }

    function DLTextBox($row,$dt,$dl){
        if($dt != "int"){
            $html = '<input type=textbox name="dl_'. $row.'"
value="'. $dl.' ">';
        }else{
            $html = '&nbsp;<input type=hidden name="dl_'. $row.'"
value="0">';
        }
        return $html;
    }

    ?>

</table>

<script language="javascript">

    function redirect(url){
        document.frm.action=url;
        document.frm.submit();
    }
</script>

</center>

<input type="Button" onClick="submitAction('add',<?php print $id;?>)" value="Add Column">
<input type="Button" onClick="submitAction('data',<?php print $id;?>)" value="Edit Data">
<input type="Button" onClick="submitAction('save',<?php print $id;?>)" value="Save">
<input type="Button" onClick="redirect('Tables.php')" value="Back">
<input type=hidden name="act">
<input type=hidden name="wid">
<input type="hidden" value="" Name="tag">
</form>
</body>
</html>
<?php
//*****
//          File Name: WebPages.php
//*****

include 'appconfig.php';
include 'sql.php';
//session_start();
//session_register('count');

```

```

if(isset($_POST['act'])){
    $act = $_POST['act'];

    if (isset($_POST['wid'])){
        $id = $_POST['wid'];
    }

    switch($act){
        case 'add':
            SQL_SP_AddWebPage();
            break;
        case 'save':
            $db =
odbc_connect($viewstate['connectstring'], "", "", SQL_CUR_USE_ODBC);
            $pagecount = $_POST['wp_idx_n']+0;
            for($i=0;$i<$pagecount;$i++){
                $fid = $_POST['wp_i_'].$i;
                if (isset($_POST['wp_'].$i.'_disable'])){
                    $disabled = $_POST['wp_'].$i.'_disable'+0;
                }else{
                    $disabled = 0;
                }
                if (isset($_POST['wp_'].$i.'_startpage'])){
                    $startpg = $_POST['wp_'].$i.'_startpage'+0;
                }else{
                    $startpg = 0;
                }
                $pgname = $_POST['wp_'].$i.'_name';
                $sql =
SQL_WebPages_2($startpg,$disabled,$pgname,$fid);
                $result=odbc_exec($db,$sql);
            }
            odbc_close($db);
            break;
        case 'view':

            NewWindow('GenerateWebPage.php?lastpageid=0&id='.$id.'&siteid='.$viewstate['sitei
d']);

            break;
        case 'edit':
            Redirect('Designer.php?id='.$id);
            break;
        case 'delete':
            $sql = SQL_WebPages_3($id);
            odbc_exec($db,$sql);
            break;

        case 'redirect':
            $url = $_GET['url'];
            Redirect($url.'?id='.$id);
            break;
    }
}

?>

<html>

<head>
<title>PHP Test</title>

```

```

        <script language="javascript">
            function submitAction(strAction,id){
                //alert(strAction+' '+id);
                document.frm.act.value=strAction;
                document.frm.wid.value=id;
                document.frm.submit();
            }
        </script>
    </head>

    <body>
    <form name="frm" method="post">

    <!-- img src="images/AD20.jpg" -->

    <?php
        $menuselection=1;
        include 'headermenu.php';
    ?>

    <br>
    <table width=60%>
    <tr>
    <td nowrap align=center width=5% style="color:#ffffff;background-color:#2053a3;font-
    family:arial;font-weight:700;font-size:10pt">
    &nbsp;Forms&nbsp;
    </td>
    <td>&nbsp;</td>
    </tr>
    </table>

    <center>

    <table style="font-family:arial;font-size:10pt; border-top: 1px solid #3366CC"
    cellspacing=0 cellpadding=1 WIDTH=100%>
        <tr>
            <td nowrap align=center style="background-color:#c2cde1; color:#000000;
            border-right: 1px solid #3366CC; border-bottom: 1px solid #3366CC; border-left: 1px solid
            #3366CC">Page Name</td>
            <td nowrap align=center style="background-color:#c2cde1; color:#000000;
            border-right: 1px solid #3366CC; border-bottom: 1px solid #3366CC">URL</td>

            <!-- td nowrap width=50 align=center style="background-color:#c2cde1;
            color:#000000; border-right: 1px solid #3366CC; border-bottom: 1px solid
            #3366CC">Enabled</td -->
            <!-- td nowrap width=50 align=center style="background-color:#c2cde1;
            color:#000000; border-right: 1px solid #3366CC; border-bottom: 1px solid
            #3366CC">Start&nbsp;Page</td -->
            <td nowrap width=50 align=center style="background-color:#c2cde1;
            color:#000000; border-right: 1px solid #3366CC; border-bottom: 1px solid
            #3366CC">View</td>
            <td nowrap width=50 align=center style="background-color:#c2cde1;
            color:#000000; border-right: 1px solid #3366CC; border-bottom: 1px solid
            #3366CC">Edit</td>
            <td nowrap width=50 align=center style="background-color:#c2cde1;
            color:#000000; border-right: 1px solid #3366CC; border-bottom: 1px solid
            #3366CC">Delete</td>
        </TR>

    <?php
        $db = odbc_connect($viewstate['connectstring'], "", "", SQL_CUR_USE_ODBC);
        $result=odbc_exec($db,"select * from WebPages");

```

```

        $i=0;
        while(odbc_fetch_row($result)){
            $fid=odbc_result($result,"ID");
            //print "Result is ".odbc_result($result,"PageName");

            outputLine('<input type=hidden name="wp_i_'. $i.' "
value="'. $fid.' ">');
            outputLine('<tr>');
            outputLine('        <td nowrap align=center style="background-
color:#EEEEEE; border-bottom: 1px solid #3366CC; border-right: 1px solid #3366CC; border-
left: 1px solid #3366CC"><input name="wp_'. $i.' '_name" style="width:100%" type="text"
value="'.odbc_result($result,"PageName").'"></td>');
            outputLine('        <td nowrap align=center style="background-
color:#EEEEEE; border-bottom: 1px solid #3366CC; border-right: 1px solid #3366CC;font-
size:8pt"><input onFocus="blur()" name="'. $i.'" style="width:100%;background-
color:#EEEEEE;color:#555555;border:none;font-size:8pt" type="text"
value="'.GetFormURL($fid,$viewstate['siteid'],0).'"></td>');
            //outputLine('        <td nowrap width=50 align=center
style="background-color:#EEEEEE; border-bottom: 1px solid #3366CC; border-right: 1px
solid #3366CC"><input name="wp_'. $i.' '_disable" type="checkbox" value="1"
'.checked(odbc_result($result,"Disable")).'"></td>');
            //outputLine('        <td nowrap width=50 align=center
style="background-color:#EEEEEE; border-bottom: 1px solid #3366CC; border-right: 1px
solid #3366CC"><input name="wp_'. $i.' '_startpage" type="checkbox" value="1"
'.checked(odbc_result($result,"StartPage")).'"></td>');
            outputLine('        <td nowrap width=50 align=center
style="background-color:#EEEEEE; border-bottom: 1px solid #3366CC; border-right: 1px
solid #3366CC"><a
href="javascript:submitAction('\view\',''.odbc_result($result,"ID").'\')" style="text-
decoration:none"></a></td>');
            outputLine('        <td nowrap width=50 align=center
style="background-color:#EEEEEE; border-bottom: 1px solid #3366CC; border-right: 1px
solid #3366CC"><a
href="javascript:submitAction('\edit\',''.odbc_result($result,"ID").'\')" style="text-
decoration:none"></a></td>');
            outputLine('        <td nowrap width=50 align=center
style="background-color:#EEEEEE; border-bottom: 1px solid #3366CC; border-right: 1px
solid #3366CC"><a href="javascript:if(confirm('\Are you sure you want to delete this
form?\'')) submitAction('\delete\',''.odbc_result($result,"ID").'\')" style="text-
decoration:none;border-style:none"></a></td>');
            outputLine('</TR>');
            $i++;
        }
        outputLine('<input type=hidden name="wp_idx_n" value="'. $i.' ">');
        odbc_close($db);

        function outputLine($strText){
            print $strText."\\n";
        }

        //;$result = odbc_exec($db,"SELECT FirstName, LastName FROM Employees
ORDER BY LastName");
        ?>
        <tr>
            <td colspan=6 width=100%0><input type="Button" Value="Add"
onClick="submitAction('add','')">&nbsp;<input type="Button" Value="Save"
onClick="submitAction('save','')"></td>

        </tr>

```

```

</table>
</center>

<input type="hidden" value="" Name="act">
<input type="hidden" value="" Name="wid">

</form>

<?php
include 'mainfootlogin.php';
?>

<!-- trigger download of swing library if needed -->
<!-- object style="visibility:hidden"
      classid="clsid:8AD9C840-044E-11D1-B3E9-00805F499D93"
      codebase="http://java.sun.com/products/plugin/autodl/jinstall-1_4-windows-
i586.cab#Version=1,4,0,0"
      width=0 height=0>
      <param name="code" value="">
      <param name="codebase" value="">
</object>
<EMBED
      type="application/x-java-applet;version=1.4"
      WIDTH = "0" HEIGHT = "0"
      scriptable=true
      pluginpage="http://java.sun.com/products/plugin/index.html#download">
<NOEMBED>

</EMBED -->

</body>
</html>

<?php
include 'appconfigend.php';
?>

```

## REFERENCES

- [1] The Internet Analyst, "Small business Internet usage", Butler, 12 March 2002, available at <http://www.theinternetanalyst.com/article.asp?docid=7669&nd=0314>
- [2] Business Know-How, "Small Biz Goes B2B", Spiegel, 2002, available at <http://www.businessknowhow.com/marketing/small%20bizgoesB2B.htm>
- [3] IEEE STD 830-1993 - Description, IEEE, 1999, available at [http://standards.ieee.org/reading/ieee/std\\_public/description/se/830-1993\\_desc.html](http://standards.ieee.org/reading/ieee/std_public/description/se/830-1993_desc.html)
- [4] Web Accessibility Initiative (WAI), available at <http://www.w3.org/WAI/>
- [5] Younik Lee, An E-Commerce Site Generator, California State University San Bernardino Master's Project, 2000
- [6] Moshé M. Zloof, "Query By Example", AFIPS NCC 1975: 431-438
- [7] MySQL and MyODBC, available at <http://www.mysql.com/downloads/index.html>
- [8] Quickbase, available at <https://www.quickbase.com/>
- [9] Glossary, available at <http://www.ameritech-hosting.net/resources/glossary.htm>

- [10] Brian Cryer's Glossary of IT Terms with Links,  
available at <http://www.cryer.co.uk/glossary/O.htm>
- [11] XML - the site: glossary, available at  
<http://www.softwareag.com/xml/about/glossary.htm>
- [12] MySQL Programming - Using Transactions In MySQL,  
available at <http://www.devshed.com/c/a/MySQL/Using-Transactions-In-MySQL-Part-1>
- [13] Advisory 04/2002 Multiple MySQL vulnerabilities,  
available at <http://security.e-matters.de/advisories/042002.html>
- [14] Making MySQL Secure Against Attackers, available at  
[http://dev.mysql.com/doc/mysql/en/Security\\_against\\_attack.html](http://dev.mysql.com/doc/mysql/en/Security_against_attack.html)