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Intranet concept for small business

Allen Gregg Lenaburg

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INTRANET CONCEPT FOR SMALL BUSINESS

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

In Partial Fulfillment
of the Requirements for the Degree
Master of Business Administration

by
Allen Gregg Lenaburg
June 2004
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Date 5/25/04
ABSTRACT

An intranet is a tool that can facilitate the exchange of information throughout an organization. Historically, intranets have been the domain of large corporations because they had the financial resources to accommodate the high costs of designing, implementing and maintaining the intranet applications. Today, because of new technology, software and services, the cost of implementing an intranet is now within the grasp of many small businesses. This project contains a working intranet application dedicated to small business use and is designed to present a compromise between scratch building and purchasing an intranet application. A business that implements an intranet similar to the one described in this project will have the ability to publish and retrieve documents in an intuitive manner. Additionally, by using the event calendar functionality employees, from anywhere they have an Internet connection, will be able to access company date-driven events in real time. Furthermore, this project will describe how to place an intranet onto a leased web hosting service or on a previously existing network.
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TABLE OF CONTENTS

ABSTRACT ................................................................. iii
ACKNOWLEDGMENTS .................................................. iv

CHAPTER ONE: INTRODUCTION

Statement of the Problem ........................................... 1
Purpose ................................................................. 1

CHAPTER TWO: LITERATURE REVIEW

Introduction ......................................................... 3
Intranet Goals ......................................................... 4
Intranet Cost Benefits .............................................. 5
Successful Applications ............................................ 6
Small Business Intranets .......................................... 9
Solutions ............................................................. 10
Conclusion ........................................................... 12

CHAPTER THREE: PROJECT DESCRIPTION

Introduction .......................................................... 13
Web Server Options ............................................... 14
Performance ........................................................ 15
Security ............................................................... 16
Site Navigation ....................................................... 17
Administration ....................................................... 18
Database ............................................................ 18
CHAPTER ONE
INTRODUCTION

Statement Of The Problem

An intranet utilizes the same technology that runs the Internet. It is implemented within the confines of a business structure, and is specifically designed to meet the information needs of that business (Durval, 2002). Historically, larger businesses and corporations were the only organizations that had the resources to implement an intranet. However, with the recent developments of newer technology, services, and lower costs, the potential for intranet use by smaller businesses has increased. Small businesses may benefit from an intranet because of its ability to effectively streamline the processes for retrieving and distributing information.

Purpose

The purpose of this project is to build a working intranet containing core applications that create the framework for a small business intranet. Moreover, this intranet can be customized specifically to the needs of a particular business. This project is designed to be a compromise between building an intranet application from
scratch and purchasing a fully operating software package. This intranet model is intended for students, faculty, business owners and managers who are interested in a working intranet that is performance based and scalable.
CHAPTER TWO

LITERATURE REVIEW

Introduction

The research approach used in this project focuses on reviewing the current literature to explain important concepts contributing to the success of intranets in use by larger companies. The objective is to adapt these concepts so that smaller businesses can make them suitable to their scale of operations. The scope of the research will include defining the goals of an intranet, the cost effectiveness of implementing an intranet, and defining important core intranet application components. Specifically, based on case research, applications including information retrieval, employee services, and document publishing will be examined. Moreover, the research will explore the potential of intranet usage for small businesses including the potential market, obstacles to intranet acceptance, and solutions to overcoming those obstacles. Additionally, the solutions will describe the lower cost thin servers and the hosted web service options. Much of the research consists of peer-reviewed articles and case studies that analyze businesses utilizing an intranet.
in some form, and companies that are marketing intranet solutions to small businesses.

Intranet Goals

The goal of an intranet is to manage the information that a company has obtained over time and making it accessible to the organization as a whole (Starnes, 1997 p. 31). This management of information facilitates information sharing allowing the decision makers and problem solvers within the company to do their jobs more effectively. With the sharing of information comes collaboration. “When collaboration occurs, two or more individuals with complementary skills interact to create a new, shared understanding” (Guengerich, Graham, Miller, McDonald 1997, p.20). Guengerich et al., goes on to describe (p.21) that a knowledge management system should give everyone access to company information, and it should be available 24 hours a day across time and space, and does not require users to be computer experts. An intranet conforms well to the definitions of a knowledge management system because it never sleeps, is accessible globally via the Internet, and it employs a simple point and click interface.
Intranet Cost Benefits

Research on intranet cost effectiveness shows that in 1996 over 60% of the Fortune 500 companies were utilizing some form of an intranet (Fulk, Hinds, Hollingshead, Kiesler, Monge, 2002). Larger corporations have found that one of the reasons that intranets are successfully implemented is because they use the same proven technology as the Internet (Pitt, Murgolop-Poore, Dix, 2001, p. 106). Adopting this technology is cost effective because the expenses of research and development have already been incurred, and most of the technical problems have previously been solved. The Internet protocol of TCP/IP and HTML are universal and have been providing a means for global information sharing that corporations are exploiting on a large scale. Therefore, the costs of developing an intranet are less, compared to other applications, because the technologies for an intranet are derived from the Internet. Software, expertise and the interface of HTML already exist, and are widely available (Tittle, 1997, p.100-101). McGaughey (1999, p.7) describes how Internet technology is not constrained by organizational and environmental boundaries. Moreover, it
can present various forms of information in a universal format that enhances the value of the information. Many companies use intranets as a means to improve their business model by managing their information resources effectively. By doing this the processes that are information critical become more streamlined and accessible. McGaughey (p.7), describes that when information is posted on an intranet in a timely manner it is readily available to any computer in the world that has corporate intranet access.

Implementation of an intranet has resulted in a significant ROI for some larger corporations. For example the Mitre Corporation reported a $62 million decrease in operating costs by investing $7.2 million in a corporate intranet (Ward, 2001, p.3). Additionally, according to Cisco Systems, they extensively post and use all business related information on their intranet, and because of their diligence they saved $800 million in costs (Ward, p.1)

Successful Applications

Companies that have intranets utilize them in a variety of ways, however, there are some intranet
applications that the literature has shown to be consistently successful.

**Information Retrieval**

One concept of an intranet that has been successful involves using methods that streamline the process of searching for information, and consequently leaving more productive time for other tasks. For example, Delta Airlines implemented an intranet consisting of online maintenance manuals and parts catalogs that resulted in a 50% reduction in time that maintenance crews spent searching for information. This replaced the tedious process of manually searching through volumes of manuals. Therefore, the critical time for aircraft servicing turn-around was reduced allowing planes to fly sooner and generate more revenue (Deimler, Hansen, 2001, p.97). The Charles Schwab firm has reduced costs and increased productivity by making information easily available with an online system that includes a powerful search engine. Consequently the core processes are more streamlined and employees have increased efficiency in performing tasks (Deimler, Hansen, p.98).
Employee Services

Another intranet application utilizes an intranet for empowering employees to be more self-sufficient with the ability to handle internal administrative tasks without over-burdening staff resources. Delta Airlines improved its crew scheduling system to provide better matching of crew and flight demands while reducing costs. Therefore, allowing the employees the convenience of accessing crew schedules over the Internet (Deimler, Hansen, p.97). Cisco uses their intranet for employee self-service matters such as ordering equipment, or modifying benefit options. As a result employee related tasks that previously required processing by administrative staff over several days is greatly reduced (Deimler, Hansen 2001, p.98).

Publishing

Many successful intranet strategies pertain to the publication of information. Companies are now converting paper documents to digital format and publishing them on the intranet for employee or customer use. According to Devendra (1997, p.8), costs are reduced because less staff is needed to process these documents compared to the more labor intensive methods of printing and mailing documents, forms, and handbooks. The process of updating a document
on an intranet occurs in real-time and therefore employees can be confident they will all have the same current information.

Small Business Intranets

Obstacles

The intranet has been in existence for several years, but it is mostly utilized by larger companies that could afford the purchase, maintenance, and operational requirements for operation. Smaller companies have been reluctant to embrace the intranet technology essentially due to the associated costs of purchasing equipment, hardware, and the burdens of system maintenance. The more powerful servers and network systems are appropriate for larger corporations who have the technical resources to maintain them. Often, they are not suitable for small businesses that cannot afford the adequate resources (Jones, 2000, p.67).

Potential Market

The advancements in recent technology has significantly reduced the costs of servers required to run an intranet site. Today the typical desktop computer has the computing power that only powerful and expensive
servers were capable of just a few years ago. Additionally, the emergence of Internet service providers that are dedicated to web-hosting services have also lowered costs significantly. These web-hosting services are able to spread the costs of running a robust web server among several customers and therefore making web hosting affordable. Historically, small businesses would not purchase intranet packages because of costs associated with hosting a web site (Sanders 1999 p. 81). However, with the lowered costs of newer technology and services, smaller business can now afford their own intranet solutions. As a result the market for small business intranets has opened.

Solutions

Evaluating Technology

With the availability of thin servers and web hosting services, the infrastructure required to run an intranet has become far less expensive and with much less complexity. According to Roberts (2002), small businesses are placing budget priority on technology especially in the area of Internet applications. Furthermore, they are now re-evaluating the potential for technology and how it can be suitably integrated into the organization.
Lower Cost Servers

Thin servers are stand-alone computers that use mostly desktop components and are less expensive than their network server counterparts. Jones (p.67) describes that small and mid-size businesses cannot afford the high costs associated with maintaining general-purpose servers and will find the thin servers a cost effective alternative. Furthermore, these server appliances can be connected to the Internet with DSL or other broadband technologies to provide multiple employee connections. A smaller-scale web server can then be added to function as the core of a company intranet.

Web Hosting

A web hosting service is an Internet service provider that has hosting web sites as its primary focus. According to Sanders (p.81), these sites provide access to powerful database servers such as Microsoft SQL, scripting languages, and tools that make administration of the web site much easier. The costs can be less than $100 a month. The web hosting service can allow a company to establish a business intranet without purchasing any network or server equipment. The only equipment requirements are an Internet connection, web-page editor, and browser.
Conclusion

The literature has shown that many large organizations have found an intranet to be an effective means to share and manage information. An intranet is a cost effective solution for information management because it is based on the same technology that powers the Internet, and utilizes universal protocols to send and receive data. Moreover, corporations have implemented intranet systems in a variety of ways including improving information retrieval, empowering employees, and publishing documents. Furthermore, with the development of lower cost hosting technology and software, a potential market has opened, and smaller businesses now have the opportunity to implement intranet solutions.
CHAPTER THREE

PROJECT DESCRIPTION

Introduction

The research in this project indicates that many large corporations utilize intranets in a variety of ways to manage their information effectively. However, many small businesses have found the requirements for expensive equipment and dedicated staff resources to be cost prohibitive for implementing their own intranet sites. The intranet contained within this project is designed to overcome those obstacles by designing all applications to function on a single web server that also contains a database. This allows an intranet to be compact and either installed on a web hosting service or attached to a previously existing network. All of the applications are web-based and the requirements for performance, security, site navigation, and administration are all included in the package. This intranet contains an event calendar, methods for publishing, and document searching and retrieval as its core applications.
Web Server Options

This project is designed to work on a Microsoft Internet Information Server with the .Net Framework version 1.1 or greater installed. To create greater flexibility there are two choices pertaining to how the intranet is installed on a web server. The intranet can be placed on a leased web hosting service or on a local network attached to a broadband Internet connection. (See Appendix A, Figure 1).

Web Hosting

The leased web hosting service requires a monthly fee to utilize the space on their computers usually with a variety of options. The least expensive option is offered as a shared web server where several customers are provided space on the same web server. The dedicated server is another web hosting option where the customer is leasing the entire web server. The dedicated web server usually costs more and the customer usually must provide their own software applications. The better hosting services will have database applications installed as a standard option. The primary advantages for the small business that elects to lease from a web hosting service are minimal capital costs due to purchasing equipment and software, and the
staffing to maintain the web site. In contrast, the web server performance is dependent upon the infrastructure of the web hosting service and the amount Internet traffic that it can bear at any given time. Consequently, a small business may have significant performance problems if it finds that the web hosting service has inadequate bandwidth relative to the amount of customers sharing a web server.

Network Server

The second option for installing an intranet is to use a thin web server that is attached to an existing network. The thin web server has the advantage of being accessible from either the network or through the Internet (See Appendix A, Figure 1). A company with more sensitive information will find this a more secure choice since network authentication will be available. In comparison to the web hosting service the network server option will require additional technical resources to implement and maintain the web server.

Performance

Performance is a primary objective of this project and a great deal of server-sided scripting is utilized to make the site dynamic. The Microsoft frameworks of Active
Server Pages (ASP and ASP.Net) are used because of the large availability of tools and designing resources available. To improve performance the user interface is uncluttered with an intuitive functional layout, and consists of very few non-essential graphics since they affect the web page loading time at the browser. Most users of an information-based intranet desire the ability to quickly obtain the desired information and are not interested in waiting for a dazzling visual display to load. In his article about intranet winning characteristics, Ward (2001), states that the web site should be designed with consideration to the user who has the slowest Internet connection. The goal of this project is for web pages to load in less than 6 seconds on a standard dial-up Internet access account.

Security

This intranet project has a built-in username and password system of security since most leased hosting services do not provide for system authentication. The database contains a table that is dedicated to user accounts. Users are assigned the privileges of a standard-user, publisher, or administrator. The standard user can
view documents and fill out online forms only. The publisher has the ability to upload documents to the web server. The administrator can view and modify user accounts. Entry to the intranet is through a username and password screen. If desired, the administrator can provide users with a code that will allow them the ability create their own username and password. The username and password are sent to the web server in text format. Consequently, a company should not place sensitive information on this intranet when using the leased hosting service. Companies with more sensitive information should place the intranet on a local network that provides for more secure forms of authentication.

Site Navigation

One of the objectives of this project is to create an uncluttered intuitive interface for the users. Therefore, a menu bar is located at the top of each page to facilitate site navigation (See Appendix A, Figure 2). Menus and sub-menus are displayed when the mouse is moved over the menu bar. This style of navigation is advantageous over users trying to find numerous hyperlinks placed on the page. However, this type of menu system requires the
client-side scripting language of Javascript and some browsers may have this feature turned off or they are not compatible. Consequently there is a site map page that does display hyperlinks for site navigation.

Administration

Managing an intranet is important, and this project provides the ability to administer some aspects of the intranet using a web browser on a remote client computer. To accomplish this ease of administration, server-sided scripting is used to create a site maintenance section accessible through an Internet Browser. User accounts can be accessed and modified by using the authentication menu selection. The intranet usage for each user is also available for display. The section for viewing the log allows the intranet manager to retrieve a list of users that accessed the intranet during a particular day. The database backup selection essentially downloads the database to the client computer.

Database

A database is required for this project and Microsoft Access is the database currently used, but connecting any other ODBC compliant database is an option.
One advantage of Microsoft Access is that the database file can be easily downloaded to a client computer for use as a source of data backup, and for simplifying changes to the database design. As an option, for businesses that expect a high usage, the intranet project has been tested with a Microsoft SQL Server successfully. The database contains tables that are used to store data for the event calendar, user accounts, documents and training rosters. Relationships are established between tables, where required, to maintain referential integrity and utilize cascading updates and deletes. Web pages connect to the database by using server sided scripting and SQL query statements.

Project Applications

The applications designed into this prototype intranet are intended to make the site dynamic so that employees will have access to the most current organizational information. Additionally, the publishers for this intranet can upload documents and modify event calendars without having to adjust any hyperlinks. These applications include an event calendar, and sections for document upload, storage, and retrieval.
Event Calendar

The event calendar has the primary function of retrieving events from a database, and displaying them in a monthly calendar format. Operations and a training calendar are utilized, but other calendars can be added based on the needs of the company. Events are displayed on the calendar as hyperlinks, and when clicked by the mouse will display details pertaining to that event. Moreover, if the event falls under the category designated as training, a roster is created so that users have the opportunity to register for that particular class roster online. The instructor can place a limit on the size of the roster, and can view the class roster at anytime.

Publishers have the ability to add and modify events for the calendar by using the calendar menu option or by clicking an existing calendar event and then selecting the edit button. Users can search the event database by selecting predefined criteria. In this project, events can be searched by category, and the month they fall under. Additionally, the calendar can be further searched by keywords in the event title or a description that matches the pattern entered by the user. The search results will display a list of hyperlinks that point to the event.
details page where an expanded view of a calendar event is shown. Also, when publishing an event under the announcements category, the event is not placed on the event calendar, but is displayed separately on the announcements page so that non-date related information can also be published.

Publishing

Another application that is designed into this intranet project is dedicated to the process of publishing documents or files to the server from a client computer using only a web browser. The publishing feature is significant to this project because it provides a simple system where employees can share information, and collaborate. This method of publishing is more streamlined compared to using the established methods of mailing, faxing, and printing. The publishing section provides an innovative layer of security between the user and the server. Users do not have actual access to the server files, but must utilize the database as the mechanism to perform limited file operations. Consequently, only file types that meet pre-determined criteria are permitted on the server. This file restriction is essential to block malicious and dangerous files from uploading to the server.
The database is synchronized with the files located on the server, and contains descriptive information that can be used when searching for particular files. Furthermore, the user files can be kept in a single restricted folder because the database maintains the file organization structure. The publishing page displays a browse button that permits the user to select a file from their computer for uploading to the server. The input fields of category, author, and description are required and will be appended to the database during the upload process.

**Document Search And Viewing**

The document-viewing section provides a means to streamline the efforts employees' use to search for and download documents and files that have been placed on the server. The viewing section uses the database to carry out search and download functions. In the view documents section, input fields selected by the user define the search parameters. This feature can be especially useful for companies that generate numerous memos. Files can be queried and sorted according to category, author, date, and description. After clicking the search button, a list of matching files is displayed to the user. The author and description criteria allow for the use of keyword patterns.
For example, entering the author name of Jan will return files that have author names of Jane, Janet, and Janie.

Summary

The intranet contained within this project is designed to significantly reduce the investment in capital and staff resources normally required to implement and maintain the corporate style intranet found in larger companies. For the smaller business, this intranet can be installed on a web hosting service or an existing network. It contains all the applications in a web-based format that are required to provide good performance, easy administration, and an intuitive user interface.
CHAPTER FOUR

IMPLEMENTING AN INTRANET

Introduction

The implementation of a successful intranet requires proper planning to ensure that the project has support from both the users and management. Prior to placing the intranet into production it must be fully tested to catch errors that might cause loss of data or user dissatisfaction. Additionally, the intranet must be promoted to the users as a tool that has usefulness and is easy to use because their acceptance and usage will ultimately decide the fate of the project.

Planning for Success

A successful intranet is a readily available and trusted tool for information exchange so that users can make effective business decisions (White, 2001, p.50). An intranet will have a better chance of long-term success if it is designed and promoted as a strategic asset to the company, and is supported by management. Therefore, an intranet should have a manager who is considered the sponsor for the project, and will provide both political and financial support (Robertson, 2002, p.1).
Furthermore, steps should be taken to ensure that the intranet is reliable, and accurate. Policies should be written that describe the process and intervals of data backup, the procedures for disaster recovery, and how content will be managed (Robertson, p.3).

Implementation

The intranet application documented in this project should run once the web server has been configured correctly, but some adjustments will be required before deploying the site into full production. Therefore, it is highly recommended that this intranet be placed on a development or staging computer first. This enables the developer to check for errors and to make the site customized to the organizational needs. Guengerich, et al. (p.314) suggests three sequential methods of testing. Starting with unit testing where only one function or transaction is committed while observing for errors. System testing involves testing the whole system prior to production, and integrated testing checks performance on the production platform.

A good practice is to let users of various computer skill levels access the intranet, and provide constructive
feedback before deployment. Additionally, each hyperlink and menu options should be followed to verify that there are no dead-ends. All fields on forms should be tested using various values to determine if any patterns of input are rejected by the database. Multiple back-up copies of the intranet files and database should exist before any modifications are attempted.

Promoting an Intranet Site

The process of promoting an intranet site begins early in its development. One concept is to consider the users as co-owners, and they “buy in”, thereby describing their needs and concerns pertaining to the intranet content. Another concept is to treat the users as customers, and respond to their needs in a timely manner. Ward (2001) describes the importance of promoting the intranet to the user to be a fundamental winning intranet characteristic, and that it should focus on the needs of user, and how their processes can be integrated into the application. The goal is to achieve organizational-wide acceptance of the intranet by the users (Smith, 2001, p. 3). It is also important to monitor the content that is placed on the intranet including information that is
outdated. Material that is outdated will make searches less effective, and may cause decision makers to use the wrong data. (Smith, 2001, p.3).

User Acceptance

The gains in performance by implementing any innovative software can be offset by the lack of user acceptance. Two important variables for user acceptance are the perceived usefulness of an application and its perceived ease of use (Davis, 1989, p. 319). Perceived usefulness pertains to the user’s perception of how well an application is enhancing their performance or is beneficial to the organization. Perceived ease of use is related to the amount of effort that is required to perform functions on an application. An easy to use application allows users to allocate the limited resource of effort to other tasks. According to Davis (p. 329) the relationship between perceived usefulness and ease of use are significantly correlated to the usage of an application. Therefore, it is important in the design and implementation processes to take into account the usefulness of an intranet. Moreover, how the intranet relates to business processes and enhances users performance when completing assigned tasks.
Additionally, intranet design and implementation should consider the degree of difficulty experienced and the amount of effort expended when a user is interfacing with an intranet.

Summary

An intranet will have greater chance of success if it is a strategic asset to the organization. Therefore, both management and users must properly support it. Moreover, an intranet needs to be reliable so that data integrity remains intact and users will not abandon the project because of frustration. Furthermore, the intranet administrators must promote the site by treating the users as valued customers who expect timely responses to their needs and problems. Finally the intranet should be perceived as useful and easy to use by the users to gain their acceptance of it.
CHAPTER FIVE
CODING METHODOLOGY

Introduction

An intranet is comprised of many web pages that are rendered to the client from the server upon request. Additionally, an intranet utilizes scripting code embedded in the web pages to carry out instructions that make the intranet site dynamic. The embedded scripting codes can perform many processes in the background such as responding to user inputs, manipulating the screen display, or submitting queries to a database. Some of the scripts are performed on the server using Microsoft’s Active Server Pages (ASP), while other functions occur on the client computer using the client-sided scripting language of Javascript.

Active Server Pages

Static web pages found on the majority of web sites are useful for displaying information that does not change often. However, the goal of an intranet is to provide the users with current information to facilitate processes and decision-making. This project utilizes ASP to a great extent because an ASP contains scripting code that is
processed on the server before sending information to the client. It is this server-sided processing that is the mechanism for connecting the web page output to a database, and making an intranet dynamic. The dynamic intranet can display current data in real time, in contrast to the static web site where web pages are updated manually with any new information. Furthermore, ASP is more secure because it sends only the hypertext markup language (HTML) to the Internet browser, therefore, the source code remains on the server and is not revealed to the user.

Server-Sided Scripting

The server-sided scripting language used predominately in this project is Microsoft Vbscript and it is a subset of the Microsoft Visual Basic (VB) programming language. Fortunately, the Internet has an enormous amount of Vbscript samples that demonstrate most of the functions that are required to create dynamic web pages. Some of the web pages on this intranet project also utilize the new .Net Framework released by Microsoft. The .Net pages have the full Visual Basic language available, including features that reduce the amount of programming code required to perform a task. Furthermore, the code can be
pre-compiled into assembly code for better performance, and security.

Client-Sided Scripting

Sometimes it is advantageous to have functions performed on the client computer without having to send information to and from the server. Javascript is the client-side scripting language utilized on this project. Javascript is a scripting language that is widely used on the Internet, and is compatible with most Internet browsers. Javascript can act upon events generated by the user’s computer and can be very useful for validating user input on the browser before sending any data to the server. Client-sided scripting can also display dialog boxes and windows that can contain various messages to the user.

Summary

For the intranet to function dynamically the web pages must be able to display the information to the client based upon user inputs, and changes to a database. The process of using scripting code in the web pages can be accomplished on the server or performed on the client computer.
CHAPTER SIX
PROJECT SUMMARY

The literature has shown that large companies have utilized an intranet to facilitate the sharing of information, and it has proved to be a cost effective means to streamline many processes. These larger companies have found that an intranet is effective as a tool to reduce the time expended searching for information. Furthermore, an intranet can be an instrument for empowering employees to complete routine administrative tasks while minimizing the use of staff resources. Finally, an intranet can be used to publish documents more efficiently than printing, faxing, and mailing.

The small business market is now ready to benefit from intranet technology because of the declining costs and improved capabilities of newer services. A smaller business can now implement an intranet with minimal costs and manpower requirements by using either the thin web server or a hosted web service provider.

The intranet included as part of this project is designed to introduce a framework upon which a small business can build a customized intranet without purchasing
a software application or designing from scratch. This intranet is suited to the company that desires a central location for document publishing and an intuitive event calendar that can be available 24 hours a day globally. This project is database driven using server-sided scripting, that creates an intranet that is dynamic so it can deliver current information to the employees.
APPENDIX A

DIAGRAMS OF WEB SERVER OPTIONS AND PROJECT NAVIGATION MENUS
Web Hosting Service

Local Area Network

Figure 1 Web server Options
Main Menu

Home
---
Announcements
View Documents
Calendar
--- Search Calendar

Departments
---
Training
-- Search Classes
-- Employee Review
Employee Services
Operations

Publishing
---
Upload Documents
View Documents
Add To Calendar

Administration Menu

Administrator Log-In
---

Administration Menu
---

User Accounts
Back-up Database
View Access Log
File Management

Figure 2 Navigation Menus
APPENDIX B

PROJECT SCREEN SHOTS
Today  *September 21, 2003*

<table>
<thead>
<tr>
<th>TIME</th>
<th>TITLE</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 PM</td>
<td>Childrens Clinic</td>
<td>Training</td>
</tr>
<tr>
<td>3:00 PM</td>
<td>Dressage Clinic</td>
<td>Training</td>
</tr>
</tbody>
</table>

Figure 3 Main Page
**Document Publishing**

Select File to Upload: 

<table>
<thead>
<tr>
<th>Category:</th>
<th>Operations</th>
<th>Description:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Author</td>
<td>LOCKOUT</td>
<td></td>
</tr>
</tbody>
</table>

Status: OK

Figure 4 Publishing Page
Figure 5 View Documents Page
INTRANET WEB SITE

PLEASE ENTER USERNAME

PASSWORD

Submit

Email Webmaster

Figure 6 Authentication Page
APPENDIX C

PROJECT SOURCE CODE
File Name: Event_Main.aspx

Description: Displays a form for creating or editing existing calendar events, and submits to a database.

Language: Vb.net

---

Code

```vbc
<%@ Page Language="VB" Debug="true" Inherits="lifenetconn.lifenetdbconn" %>
<%@ Import Namespace="System.Data" %>
<%@ Import Namespace="System.Data.SqlClient" %>
<%@ Import Namespace="System.IO" %>
<%@ OutputCache Location="none" %>
<%@ Import Namespace="System.Web.Mail" %>
<Script Runat="server">

'Event Maint
By Allen Lenaburg

Sub Page_Load(sender As Object, e As EventArgs)
    'Restrict non publishers
    If Not IsPostBack Then
        Button1.Visible = False
        FDate.ReadOnly = True
        Title.ReadOnly = True
        'LinkDoc.Enabled = False
        Category.Enabled = False
        Author.ReadOnly = True
        Description.ReadOnly = True
        SubButton.Visible = False
        Verase.Visible = False
    End If

    Dim ex As Exception
    Dim res As SqlConnection
    Dim pwds As String = "n411a1" 'needed for dll file
    Dim sqlCommand As New SqlCommand()
    Dim datareader As SqlDataReader
    Dim querystring As String

    res = GetQuery(pwds)
    res.Open()
    sqlCommand.Connection = res

    'populate the dropdown with file names from fload
    querystring = "SELECT filename FROM fload"
    sqlCommand.CommandText = querystring

    Try
        datareader = sqlCommand.ExecuteReader()
    Catch ex
```

43
response.write("Error Retrieving From Database")
senderror(ex)
res.close
response.end
end try

try
    linkdoc.datasource=datareader
    linkdoc.datatextfield="filename"
    linkdoc.datavaluefield="filename"
    linkdoc.databindO
    datareader.close
dim myli as new listitem
    myli.text="None"
    myli.value="None"
    linkdoc.items.insert(0,myli)
’if existing record
    if request("event_id")<>"" then
        event_id.text=request("event_id")
        old.checked=true
        querystring="select * from calender_event where event_id=" & event_id.text
        sqlcommand.commandtext=querystring
        try
            datareader=sqlcommand.executeReader()
catch ex
                response.write("Error with database")
senderror(ex)
res.close
’finally
    end try
    if datareader.read()=true then
        title.text=datareader.item("name")
        fdate.text=datareader.item("start_dt")
        author.text=datareader.item("author")
        description.text=datareader.item("description")
        category.Items.FindByValue(datareader.item("category")).Selected = true
        linkdoc.Items.FindByValue(datareader.item("linkfile")).Selected = true
    end if
    datareader.close
    end if
’if id <> ""
’clean up
res.close
sqlcommand.dispose()
res.dispose()
Sub Button1_Click(sender As Object, e As EventArgs)
Dim ex As exception
Dim res As sqlconnection
Dim pwds As String = "n41!al" 'needed for dll file
Dim sqlCommand As New SqlCommand()
Dim refnumber As Integer
Dim rand As New Random()
Dim datareader As SqlDataReader
Dim querystring As String
Dim added As Integer = 0
If old.checked = True Then
    querystring = "UPDATE [calender_event] set name=@name,[start_dt]=@startdate" & _
    "," & _
    ",author=@author,category=@category,description=@description" & _
    ",linkfile=@linkfile" & _
    " WHERE eventid=", event_id.text"
Else
    refnumber = rand.Next(1000, 100000)
    ref.text = refnumber
    querystring = "INSERT INTO [calender_event](name,start_dt,author,category,description,linkfile,refnumber)" & _
    " VALUES(@name,@startdate,@author,@category,@description,@linkfile,@refnumber)"
End If
If checkbox is true
End If
If added = 1 Then 'retrieves the event id number
    querystring = "SELECT max(event_id) as vid from calender_event" & _
End Sub
WHERE refnumber=" & ref.text & " AND name=" & title.text & ""

res.Open()
sqlcommand.commandtext=querystring

try
datareader=sqlcommand.executereader()
catch ex
response.write("Error obtaining key number")
senderror(ex)
res.close
exit sub
end try

if datareader.read()=true then event_id.text=datareader.item("vid")
datareader.close
old.checked=true
if category.selecteditem.text="Meetings" and old.checked=true then
register.NavigateUrl="roster.aspx?event_id=" & event_id.text
register.visible=true
end if 'category=meetings
end if 'added=l

clean up
res.close
sqlcommand.dispose()
sqlcommand=nothing
res.dispose()
res=nothing
End Sub 'submit button click

Sub Button2_Click(sender As Object, e As EventArgs)
if linkdoc.selecteditem.text="None" then exit sub
Dim root As String = server.mappath("../data/")
Dim title as string=linkdoc.selecteditem.text
Dim filepath As String = root & title
If File.Exists(filepath) And filepath.StartsWith(root) Then
Dim filename As String = Path.GetFileName(filepath)
Response.Clear()
Response.ContentType = "application/octet-stream"
Response.AddHeader("Content-Disposition", "attachment; filename=" & filename & ";"
Response.Flush()
Response.WriteFile(filepath)
End If 'file exists
End Sub 'button2 clicked

sub senderror(vex)
Dim msg As MailMessage = New MailMessage()
SmtpMail.SmtpServer = "rialtol"
msg.Body = vex.toString
msg.To = "alenaburg@mercyair.net"
msg.From = "alenaburg@mercyair.net"
msg.Subject = "Lifenet Error"
SmtpMail.Send(msg)

End Sub 'senderror

</script>
<html>
<head>
</head>
<body>
<script language="Javascript">
function DoCal(elTarget) {
  var sRtn;
  a=document.all.fdate.value
  sRtn = showModalDialog("Calendar.htm",a,"center=yes;dialogWidth=350pt;dialogHeight=200pt");
  if (sRtn="")
    elTarget.value = sRtn;
  else
    alert("Internet Explorer 4.0 or later is required.")
}

<form runat="server">
<p align='center'>
  <font size="5">Calendar Event Form</font>
</p>
<p align="left">
  <p align='left'>
    <strong>Date</strong>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<asp:TextBox id="fdate" runat="server" ReadOnly="True" Width="83px"></asp:TextBox>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n
"Microsoft Internet Explorer is required."
</script>
</form>
</body>
Calendar Display

File Name: Page1.aspx

Description: Displays a table style calendar that contains hyperlinks referencing an event stored in the database.

Language: Vb.net

---

Code

```vbscript
'Event Calendar Event code to populate the calendar
'By Allen Lenaburg

Sub Page_Load(sender As Object, e As EventArgs)

dim ex as exception

dim vweekday as integer 'day of week that month starts on

dim vmonthend as integer 'ending day of month

dim ddate as date

dim refyear as integer

dim j as integer

dim refdate as string

dim prevyear as string

dim nextyear as string

if not ispostback then
    if request.querystring("datee")="" then
        ddate=now()
    else
        ddate="#" & format(request.querystring("datee"),"short date") & "#"
    end if
else
    ddate="#" & format(request.querystring("datee"),"short date") & "#"
end if

else 'postback
    ddate=inidate.text
end if 'not postback

mth.text=monthname(month(ddate))

yr.text=year(ddate)
inidate.text=format(ddate,"short date")

for j=1 to 12
    refdate=j & "/01/" & year(ddate) 'Selects month for current year
    table2.rows(0).cells(j).text="<td><a HREF=page1.aspx?datee=" & refdate & ">" & monthname(j,true) & ""</a></td>
next

prevyear=month(ddate) & "/01/" & year(ddate)-1
nextyear=month(ddate) & "/01/" & year(ddate)+1

table2.rows(0).cells(0).text="<td><a HREF=page1.aspx?datee=" & prevyear & ">{Prev Year}</a></td>

nextyear=month(ddate) & "/01/" & year(ddate)+1

nextyear=month(ddate) & "/01/" & year(ddate)+1

table2.rows(0).cells(13).text="<td><a HREF=page1.aspx?datee=" & nextyear & ">{Next Year}</a></td>

```

49
'open database connection and create sqlcommand object

Dim res as sqlconnection
Dim pwds as string="n411al" 'needed for dll file
Dim sqlCommand As New SqlCommand()

Dim datareader As sqldatareader
res=getquery(pwds)
res.Open() 
sqlcommand.Connection=res

sqlcommand.Connection=res
Dim queryString As String
querystring="select * from calender_event where month(start_dt)=" & month(ddate) & 
"AND year(start_dt)=" & year(ddate)
if category.selecteditem.value<>"0" then querystring=querystring & 
"AND category=" & category.selecteditem.text & ""
sqlcommand.CommandText=querystring

'Create and fill dataset
Dim dataAdapter As New SqlDataAdapter(sqlcommand)
Dim ds As New DataSet
try
dataAdapter.Fill(ds,"calender_event")
catch ex
response.write("Error Accessing Database")
senderror(ex)
res.Close()
end try

'Get weekday the month starts on and day month ends on
vweekday=GetWeekdayMonthStartsOn(ddate)
vmonthend=getdaysinmonth(month(ddate),year(ddate))

Dim vcell as integer
Dim vrow as integer=1
Dim stri as string
Dim dday as integer
Dim dr as datarow
Dim nn as integer

vcell=vweekday-1
for dday=1 to vmonthend
    if session("auth")<>"view" then
        stri="<font size=4><a href=event_main.aspx?evdate=" & month(ddate) & 
"& dday & "/" & year(ddate) & ">">" & dday & 
"</a></font>"
    else
        stri="<font size=4>" & dday & 
"</font>"
    end if
    'loop through dataset looking for day that matches
    for each dr in ds.tables("calender_event").Rows
        if day(dr(2))=dday then
            'create a string that has day and then a hyperlink that is event
            stri=stri & "<a href=event_main.aspx?event_id=" & dr(0) & 
">" & dr(1) & 
"</a>"
        end if
    next 'dr
    table1.rows(vrow).cells(vcell).text=stri 'populate cell with day and event
    vcell=vcell+1
    if vcell>6 then
        vcell=0
        vrow=vrow+1
    end if
next 'dday

'clean up
End Sub

'* Functions
'* Functions

Public Function GetWeekdayMonthStartsOn(dAnyDayInTheMonth)
Dim dTemp as date
    dTemp = DateAdd("d", -(Day(dAnyDayInTheMonth) - 1), dAnyDayInTheMonth)
GetWeekdayMonthStartsOn = WeekDay(dTemp)
End Function ' GetWeekdayMonthStartsOn

Public Function GetDaysInMonth(iMonth, iYear)
Dim dTemp
    dTemp = DateAdd("d", -1, DateSerial(iYear, iMonth + 1, 1))
GetDaysInMonth = Day(dTemp)
End Function ' GetDaysInMonth

sub senderror(vex)
    Dim msg As MailMessage = New MailMessage()
    SmtpMail.SmtpServer = "rialtol"
    msg.Body = vex.toString
    msg.To = "alenaburg@mercyair.net"
    msg.From = "alenaburg@mercyair.net"
    msg.Subject = "Lifenet Error"
    SmtpMail.Send(msg)
End Sub 'senderror

<html>
<head>
</head>
<body>
<form runat="server">

<p align="center">
<font size="5">Event Calendar</font>&nbsp;
</p>
<p align="left">
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
</p>
</form>
</body>
</html>
<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thurs</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
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</tr>
</tbody>
</table>

**Month:**

- **Category:**
  - All Calendars
  - Meetings
  - Projects

**Calendars:**

- AH Calendars
- Meetings
- Projects
Search The Calendar Events

File Name: Search.aspx

Description: Displays a form that allows for user input to query a database and narrow the search for events. Events are displayed in a table with each event as a hyperlink pointing to the event maintenance page.

Language: Vb.net

Code

<%@ Page Language="VB" Debug="true" Inherits="lifenetconn.lifenetdbconn" %>
<%@ import Namespace="System.Data" %>
<%@ import Namespace="System.Data.SqlClient" %>
<%@ import Namespace="System.Web.Mail" %>
<script runat="server">
'Calendar Search Page
'By Allen Lenaburg

Sub Page_Load(sender As Object, e As EventArgs)
if not ispostback
end if 'not post back
End Sub

'*******************************************************************************
' Data Bind
'*******************************************************************************
sub databind()
Dim ex as exception
Dim res as sqlconnection
Dim pwds as string="n41al" 'needed for dll file
Dim sqlCommand As New SqlCommand()
Dim datarreader As SqlDataReader
res=getquery(pwds)
res.Open()
sqlcommand.connection=res
Dim queryString As String

queryString="SELECT * from calender_event WHERE author<>"zzz"
if keyword.text<>"" then queryString=querystring & " AND name like "/%" & keyword.text & "/%"
if sortby.selecteditem.value<>0 then queryString=querystring & " AND category=" & sortby.selecteditem.text & ""

'response.write(querystring)

sqlcommand.commandtext=querystring
try
datareader=sqlcommand.executereader()
catch ex
res.close
response.writer("Error Retrieving From Database")
senderror(ex)
response.end
end try

dgl.datasource=datareader
dgl.databindO

res.close
sqlcommand.dispose()
sqlcommand=nothing
res.dispose()
res=nothing

end sub 'databind

'datagrid selection
Sub dgIselect(sender As Object, e As DataGridCommandEventArgs)

End Sub

Sub sortby_SelectedIndexChanged(sender As Object, e As EventArgs)
databindO
End Sub

Sub Button1_Click(sender As Object, e As EventArgs)
databindO
End Sub

sub senderror(vex)

Dim msg As MailMessage = New MailMessageO
SmtpMail.SmtpServer = "rialtol"
msg.Body = vex.tostring
msg.To = "alenaburg@mercyair.net"
msg.From = "alenaburg@mercyair.net"
msg.Subject = "Lifenet Error"
SmtpMail.Send(msg)

End Sub 'senderror

</script>
<html>
<head>
<form runat="server">
<p align="center">
<strong><font size="4">Search Calendar </font></strong>
</p>
<p>
</p>
</head>
<body>
<form runat="server">
<p align="center">
</p>
<asp:ListItem Value="1">Meetings</asp:ListItem>
<asp:ListItem Value="2">Projects</asp:ListItem>
</asp:RadioButtonList>

<p align="left">
Keyword In Title: &nbsp;&nbsp;
</p>

<p align="center">
Results<br />
</p>

<p align="center">
— Insert content here —
</p>

</form>
</body>
</html>
Editing The Training Roster

File Name: Roster.aspx

Description: Displays a table that lists the training roster for an event, and allows users to be added or deleted to the selected roster.

Language: Vb.net

Code

```vb.net
' Roster Maint
' By Allen Lenaburg

Public QueryString As String 'sql query string
Public RefNumber As Integer=0

Sub Page_Load(sender As Object, e As EventArgs)
    'populate the datagrid
    If Not IsPostBack Then
        Dim Res As SqlConnection
        Dim Pwds As String="n411al" 'needed for dll file
        Dim SqlCommand As New SqlCommand(O
        Dim DataReader As SqlDataReader
        Dim Querystring As String
        Res=GetQuery(Pwds)
        Res.Open()
        SqlCommand.Connection=Res
        Eventid.Text=request("event_id")
        LinkReturn.NavigateUrl="event_main.aspx?event_id=" & Eventid.Text
        BindData(Res,SqlCommand)
    End If
End Sub 'page load

****** Insert new record or delete selected record **********************
Sub DoInsert(ByVal sender As Object, ByVal e As DataGridViewCommandEventArgs)
    Dim VEventid As Integer=CInt(Eventid.Text) 'event id
    Dim Ex As Exception
    'set up database connection
    Dim Res As SqlConnection
    Dim Pwds As String="n411al" 'needed for dll file
    Dim SqlCommand As New SqlCommand(O
    Dim DataReader As SqlDataReader
    Dim Querystring As String
```
res = getquery(pwds)
res.open()
sqIcommand.connection = res

' if the Add button was clicked
If e.CommandName = "Insert" Then
  Dim txtlname As textbox
  Dim v lname As string
  Dim txtfhame As textbox
  Dim v fhame As string
  Dim vclassid As integer
  ' Read in the values of the TextBoxes
  txtlname = e.Item.FindControl("add_lname")
  v lname = txtlname.Text
  txtfhame = e.Item.FindControl("add_fhame")
  v fhame = txtfhame.Text
  querystring = "INSERT INTO roster (lname, fhame, classid)"
  querystring &= " VALUES(" & v lname & "," & v fhame & "," & vclassid & ")"
  sqIcommand.commandtext = querystring
  try
    sqIcommand.ExecuteNonQuery()
  catch ex
    res.close
    response.write("Error Updating Database")
    senderror(ex)
    response.end
  end try
  ' Rebind the DataGrid
  storeGrid.EditItemIndex = -1
  BindDAI(a(res, sqIcommand)
End If' equals insert

' ********************** Delete ****************************
If e.CommandName = "Delete" Then
  querystring = "delete roster where id = " & e.Item.Cells(0).Text
  response.write(querystring)
  response.end
  sqlcommand.commandtext = querystring
  try
    sqlcommand.ExecuteNonQuery()
  catch ex
    res.close
    response.write("Error With Updating Database")
    senderror(ex)
    response.end
  end try
  ' Rebind the DataGrid
  storeGrid.EditItemIndex = -1
  BindDAI(a(res, sqlcommand)
end if' equals delete
End Sub ' doinsert

' ****************************** Repopulates the datagrid ******************************
sub BindDAI(a(res, sqlcommand)
  Dim ex as exception
  Dim datareader As sqldatareader

  querystring = "SELECT id, classid, lname, fhame from roster" & _
  " WHERE classid =" & eventid.text
  vsqIcommand.commandtext = querystring
  try
    datareader = sqIcommand.ExecuteReader()
  catch ex
    response.write("Error Reading Database")
    senderror(ex)
    response.end
  end try
  Dim id As Integer
  Dim classid As Integer
  Dim lname As String
  Dim fhame As String
  Dim i As Integer
  while datareader.Read()
    id = datareader(0)
    classid = datareader(1)
    lname = datareader(2)
    fhame = datareader(3)
    storeGrid.AddItem(id, classid, lname, fhame)
 wend
  datareader.Close()
end sub
try
datareader=vsqlcommand.executereader()
catch ex
vres.close
response.write("Error Retrieving From Database")
senderror(ex)
response.end
end try
storegrid.datasource=datareader
storegrid.databind()
'clean up
vres.close
vres.dispose()
vres=nothing
vsqlcommand.dispose()
vsqlcommand=nothing
end sub 'binddata

sub senderror(vex)

Dim msg As MailMessage = New MailMessage()
SmtpMail.SmtpServer = "raltol"
msg.Body = vex.toString
msg.To = "alenaburg@mercyair.net"
msg.From = "alenaburg@mercyair.net"
msg.Subject = "Lifenet Error"
SmtpMail.Send(msg)

End Sub 'senderror

</script>
<html>
<head>
<script language="Javascript">
function f(i)
{
if(i=="f0")
{
alert('An Error Occurred Transaction Not Completed');
}
}
</script>
</head>
<body onload="Javascript:f(<%=refnumber%>);">
<form id="Forml" method="post" runat="server">
<p align="center">
</p>
<p align="center">
<font size="5">Meeting Roster</font>
<br />
<br />
<asp:TextBox id="eventid" runat="server" visible="false" Width="100px"></asp:TextBox>
<br />
<br />
</form>
</body>
<asp:DataGrid id="storeGrid" runat="server" Width="255px" BackColor="#FFFFFF" BorderColor="#cccccc" CellPadding="3" BorderWidth="1px" BorderStyle="None" OnItemCommand="doInsert" ShowFooter="True" AutoGenerateColumns="False">
    <FooterStyle forecolor="#000066" backcolor="#FFFFFF"></FooterStyle>
    <HeaderStyle font-bold="True" forecolor="#000066" backcolor="#999999"></HeaderStyle>
    <PagerStyle horizontalalign="Left" forecolor="#000066" backcolor="#ccffcc" mode="NumericPages"></PagerStyle>
    <SelectedItemStyle font-bold="True" forecolor="#666666" backcolor="#999999"></SelectedItemStyle>
    <EditItemStyle backcolor="#aaaaaa"></EditItemStyle>
    <ItemStyle forecolor="#000066"></ItemStyle>
    <Columns>
        <asp:BoundColumn Visible="false" DataField="id" ReadOnly="True" HeaderText="ID">
            <ItemTemplate>
                <%# Container.DataItem("id") %>
            </ItemTemplate>
            <FooterTemplate>
                <asp:TextBox ID="add_id" Columns="5" Runat="Server"/>
            </FooterTemplate>
            <EditItemTemplate>
                <asp:TextBox ID="id" Columns="5" Text='<%# Container.DataItem("id") %>' Runat="server"/>
            </EditItemTemplate>
        </asp:BoundColumn>
        <asp:TemplateColumn HeaderText="Last Name">
            <ItemTemplate>
                <%# Container.DataItem("lname") %>
            </ItemTemplate>
            <FooterTemplate>
                <asp:TextBox ID="add_lname" Columns="5" Runat="Server"/>
            </FooterTemplate>
            <EditItemTemplate>
                <asp:TextBox ID="lname" Columns="5" Text='<%# Container.DataItem("lname") %>' Runat="server"/>
            </EditItemTemplate>
        </asp:TemplateColumn>
        <asp:TemplateColumn HeaderText="First Name">
            <ItemTemplate>
                <%# Container.DataItem("fname") %>
            </ItemTemplate>
            <FooterTemplate>
                <asp:TextBox ID="add_fname" Columns="5" Runat="Server"/>
            </FooterTemplate>
            <EditItemTemplate>
                <asp:TextBox ID="fname" Columns="5" Text='<%# Container.DataItem("fname") %>' Runat="server"/>
            </EditItemTemplate>
        </asp:TemplateColumn>
    </Columns>
</asp:DataGrid>
Calendar For Formatted Date Entry

File Name: Calendar.html

Description: Once a user clicks the select date button a small calendar appears allowing for date selection. The selected date is then formatted and placed in the correct text box.

Language: Javascript

Code

```html
<% response.expires = 0 %>
<html>
<head>
<title>Calendar</title>
</head>
<!-- This code can be reused as long as this copyright notice is not removed -->
<!-- Copyright 1999 InsideDHTML.com, LLC. All rights reserved. See www.siteexperts.com for more information. -->
<style type="text/css">
.today {color:navy; font-weight:bold}
.days {font-weight:bold}
</style>
<script language="Javascript">
// Initialize arrays.
var adate=dialogArguments;

var daysInMonth = new Array(31, 28, 31, 30, 31, 30, 31, 30, 31, 30, 31, 30);
var days = new Array("Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday");

function getDays(month, year) {
    // Test for leap year when February is selected.
    if(1 == month)
        return ((0 == year % 4) && (0 != (year % 100))) ||
               (0 == year % 400) ? 29 : 28;
    else
        return daysInMonth[month];
}

function getToday() {
    // Generate today's date.
    if (adate != "")
    {
        this.now = new Date(adate);
    }
    else
```
```javascript
// Start with a calendar for today.
today = new getToday();

function newCalendar() {
    today = new getToday();
    var parseYear = parseInt(document.all.year
        [document.all.year.selectedIndex].text);
    var newCal = new Date(parseYear,
        document.all.month.selectedIndex, 1);
    var day = +1;
    var startDay = newCal.getDay();
    var daily = 0;
    if ((today.year == newCal.getFullYear()) &&
        (today.month == newCal.getMonth()))
        day = today.day;
    // Cache the calendar table's tBody section, dayList.
    var tableCal = document.all.calendar.tBodies.dayList;
    var intDaysInMonth =
        getDays(newCal.getMonth(), newCal.getFullYear());
    for (var intWeek = 0; intWeek < tableCal.rows.length;
        intWeek++)
        for (var intDay = 0;
            intDay < tableCal.rows[intWeek].cells.length;
            intDay++) {
            var cell = tableCal.rows[intWeek].cells[intDay];
            // Start counting days.
            if ((intDay == startDay) && (0 == daily))
                daily = 1;
            // Highlight the current day.
            cell.className = (day == daily) ? "today" : "";
            // Output the day number into the cell.
            if ((daily > 0) && (daily <= intDaysInMonth))
                cell.innerText = daily++;
            else
                cell.innerText = "";
        }
}

function getDate() {
    var sDate;
    // This code executes when the user clicks on a day
    // in the calendar.
    if ("TD" == event.srcElement.tagName)
        // Test whether day is valid.
        if ("" == event.srcElement.innerText)
            //alert(event.srcElement.innerText);
            sDate = document.all.month.value + "/" + event.srcElement.innerText + "/" +
            document.all.year.value;
            document.all.ret.value = sDate;
            window.close();
}
```
<head>
<body onload="newCalendar()" onunload="window.returnValue = document.all.ret.value;">
<input type="hidden" name="ret" />
<table id="calendar">
<thead>
<tr>
<td align="middle" colspan="7">— Month combo box —</td>
</tr>
<tr>
<select id="month" onchange="newCalendar()">
<script language="Javascript">
// Output months into the document.
// Select current month.
for (var intLoop = 0; intLoop < months.length; intLoop++)
  document.write("<OPTION VALUE=" + (intLoop + 1) + "+ selected=" + today.month == intLoop ? "Selected" : "\" + ">" + 
  months[intLoop]);
</script>
</select>
</tr>
<tr>
<select id="year" onchange="newCalendar()">
<script language="Javascript">
// Output years into the document.
// Select current year.
for (var intLoop = today.year; intLoop <= today.year + 4; intLoop++)
  document.write("<OPTION VALUE=" + intLoop + " selected=" + today.year == intLoop ? "Selected" : "\"+ 
  intLoop);</script>
</select>
</tr>
<tr>
</tr>
<tr class="days">
</tr>
</thead>
<tbody id="dayList" onclick="getDate()" align="middle">
</tr>
</table>
<center>
<input style="WIDTH: 50pt" onclick="Close();" type="button" value="Cancel" />
</center>
<script language="Javascript1.2">
function Cancel() {
  document.all.ret.value = "\";
  window.close();
}
</script>
</body>
</html>
Document Publishing Page

File Name: Docpublish.aspx

Description: Displays an upload button that allows users to upload to the server with limitations of file types. The file database is then updated with the file information.

Language: Vb.net

Code

```
<%@ Page Language="VB" Debug="true" Inherits="lifenetconn.lifenetdbconn" %>
<%@ Import Namespace="System.Data" %>
<%@ Import Namespace="System.Data.SqlClient" %>
<%@ Import Namespace="System.IO" %>
<%@ Import Namespace="System.web.mail" %>
<Script Runat="server">

'Document Publish
'By Allen Lenaburg
public refiumber as integer
Sub Page_Load(sender As Object, e As EventArgs)

End Sub

*******************************************************************************
Upload Procedure******************************************************************************
sub fileupload(sender As Object, e As EventArgs)
Dim exa as exception
Dim directorySeparatorChar As Char = Path.DirectorySeparatorChar
Dim currentDir as string=server.MapPath("../data/")
If Not (uploadedFile.PostedFile Is Nothing) Then

Dim cleared as string="no"
Dim postedFile = uploadedFile.PostedFile
Dim filename As String = Path.GetFileName(postedFile.filename)
if len(filename)>49 then

refiumber=70
exit sub
end if
select case right(filename,3)
case "doc","xlw","xls","ppt","txt","zip","pdf","htm"
cleared="yes"
end select
select case right(filename,4)
case "html"
cleared="yes"
end select
if cleared="no" then
refiumber=50
exit sub
end if

```
Dim contentType As String = postedFile.ContentType

Dim contentLength As Integer = postedFile.ContentLength

try
    postedFile.SaveAs(currentDir & _
                     directorySeparatorChar.ToStringO & filename)
Catch exa
    cleared = "no"
    refnumber = 80
End Try

'Append or Update database

'Try

'//database_connection()
if cleared = "no" then exit sub
Dim res As sqlconnection
Dim pwds as string="n41al" 'needed for dll file
Dim sqlCommand As New SqlCommand()
Dim datareader As sqldatareader
Dim querystring as string
Dim ex as exception
res = getquery(pwds)
res.open()
sqlcommand.connection = res

querystring = "select [filename] from fload where [filename] =" & filename & ""

sqlcommand.commandtext = querystring
datareader = sqlcommand.ExecuteReader
if datareader.Read() = true then
datareader.Close()

querystring = "UPDATE fload set filename = @filename" & _
    " ,category = @category" & _
    " ,description = @description" & _
    " ,lockout = @lockout ,Datecreated = @timestamp" & _
    " where [filename] =" & filename & ""
else
datareader.Close()

querystring = "INSERT INTO fload (filename,category,description,author,lockout,Datecreated)" & _
    " Values(@filename,@category,@description,@author,@lockout,@timestamp)"

end if 'datareader=true


sqlcommand.commandtext = querystring

try 'execute the command
sqlcommand.ExecuteNonQuery
Catch ex
    senderror(ex)
Finally
    res.Close
sqlcommand.dispose()
sqlcommand=nothing
res.dispose()
res=nothing
datareader=nothing
end try

End If 'uploaded file not nothing
end sub 'uploadclick

*****************************************************************************

sub senderror(vex)
Dim msg As MailMessage = New MailMessage()
SmtpMail.SmtpServer = "rialtol"
msg.Body = vex.toString
msg.To = "alenaburg@mercyair.net"
msg.From = "alenaburg@mercyair.net"
msg.Subject = "Lifenet Error"
SmtpMail.Send(msg)
End Sub

<form runat="server">
<p align="center">
<font size="5">Document Publishing</font>
</p>
</form>

</body>
</html>
Select File to Upload:

Category: Meetings, Projects

Description:

Author:

Lockout:

Upload
Document Viewing Page

File Name:  Docview.aspx

Description: Displays a list of files that are available for download from the server. Also allows for file deletion and file locking.

Language:  Vb.net

---

Code

```vb.net
<%@ Page Language="VB" Debug="true" Inherits="lifenetconn.lifenetdbconn" %>
<%@ import Namespace="System.Data" %>
<%@ import Namespace="System.Data.SqlClient" %>
<%@ import Namespace="System.IO" %>
<%@ outputcache location="none" %>
<%@ import Namespace="System.web.mail" %>
<script runat="server">

'Document View
'By Allen Lenaburg

Sub Page_Load(sender As Object, e As EventArgs)
    if session("auth")="view" then dg1.columns(4).visible=false
    Dim x as integer
    if not ispostback
        bindata()
    end if
    not a postback
End Sub

Sub dg1edit(source As Object, e As DataGridCommandEventArgs)
    'responds to either delete or download button clicks
    if e.commandname="Delete" then delete_file(e.item.cells(1).text)
    if e.commandname="Download" then download_files(e.item.cells(1).text)
end sub

'Delete File
Sub delete_file(filepath)
    Dim res as sqlconnection
    Dim pwds as string="n411al" 'needed for dll file
    Dim sqlCommand As New SqlCommand()
    Dim datareader As sqldatareader

    Dim ex as exception
    Dim root As String = server.mappath("./data/"

    If File.Exists(root & filepath) And filepath.StartsWith(root) Then
        try
            File.Delete(root & filepath)
        catch
            Dim error_message As String = "Unable to delete file: 
```
```
catch ex
  response.write("Error Deleting File")
  senderror(ex)
  response.end
end try
end if

res=getquery(pwds)
res.Open()
sqlcommand.connection=res
Dim querystring as string="DELETE fload where [filename]=" & filepath & "
sqlcommand.commandtext=querystring

try
  sqlcommand.ExecuteNonQuery
catch ex
  res.close
  response.write("Error Deleting From Database")
  senderror(ex)
  response.end
end try
sqlcommand.dispose()
sqlcommand=nothing
res.dispose()
res=nothing
end try
bindata()
end sub

Download files

sub download_files(title)
  Dim root As String = server.mappath("../data/")
  Dim filepath As String = root & title

  If File.Exists(filepath) And filepath.StartsWith(root) Then
    Dim filename As String = Path.GetFileName(filepath)
    Response.Clear()
    Response.ContentType = "application/octet-stream"
    Response.AddHeader("Content-Disposition", "attachment; filename=" & filename & "")
    Response.Flush()
    Response.WriteFile(filepath)
  End If
end sub

************ Bind Data ************

sub bindata()
  'label6.text=category.selecteditem.value
  dim ex as exception
  Dim res as sqlconnection
  Dim pwds as string="n41al" 'needed for dll file
  Dim sqlcommand As New SqlCommand()
  Dim datareader As sqldatareader
  res=getquery(pwds)
  res.Open()
  sqlcommand.connection=res
  Dim querystring As String
  querystring="select * from fload"
  select case sortby.selecteditem.value
case 1
  querystring=querystring & " WHERE category='Meetings"
end

case 2
  querystring=querystring & " WHERE category='Projects"
end

select sqlcommand.commandtext=querystring

try
  datareader=sqlcommand.executeReader()
  catch ex
    res.close
    response.write("Error Accessing Database")
    senderror(ex)
    res.close
end try

dg1.datasource=datareader
dg1.databindO
res.close
sqlcommand.disposeO
sqlcommand=nothing
res.disposeO
res=nothing
end

Sub sortby_SelectedIndexChanged(sender As Object, e As EventArgs)
bindataO
End Sub 'sortby changed

sub senderror(vex)
  Dim msg As MailMessage = New MailMessage()
  SmtpMail.SmtpServer = "rialtol"
  msg.Body = vex.toString
  msg.To = "alenaburg@mercyair.net"
  msg.From = "alenaburg@mercyair.net"
  msg.Subject = "Lifenet Error"
  SmtpMail.Send(msg)
End Sub 'senderror

<script>
<html>
<head>
</head>
<body>
<form runat="server">
  <p align="center">
    <font size="5">View Documents</font>
  </p>
  <p align="left">
</p>
  <p>
    Category&amp;nbsp;&nbsp;nbsp;&nbsp;nbsp;&nbsp;nbsp;
    &lt;asp:RadioButtonList id="sortby" runat="server" OnSelectedIndexChanged="sortby_SelectedIndexChanged"
    RepeatLayout="Flow" AutoPostBack="True" RepeatDirection="Horizontal">
      &lt;asp:ListItem Value="0" Selected="True">All&lt;/asp:ListItem&gt;
      &lt;asp:ListItem Value="1">Meetings&lt;/asp:ListItem&gt;
      &lt;asp:ListItem Value="2">Projects&lt;/asp:ListItem&gt;
    &lt;/asp:RadioButtonList&gt;
  &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n
<asp:DataGrid id="dg1" runat="server" CellPadding="3" BorderStyle="Ridge" OnItemCommand="dg1edit"
AutoGenerateColumns="False">
<HeaderStyle bordercolor="Blue" backcolor="LightSteelBlue"></HeaderStyle>
<PagerStyle backcolor="Aqua"></PagerStyle>
<Columns>
<ItemStyle forecolor="Blue"></ItemStyle>
<ItemTemplate>
<asp:Button runat="server" Text="Download" CommandName="Download" CausesValidation="false"
BackColor="White" ForeColor="Blue"></asp:Button>
</ItemTemplate>
</asp:TemplateColumn>
<asp:BoundColumn DataField="filename"HeaderText="Filename"></asp:BoundColumn>
<asp:BoundColumn DataField="author"HeaderText="Author"></asp:BoundColumn>
<asp:BoundColumn DataField="description"HeaderText="Description"></asp:BoundColumn>
<asp:TemplateColumn>
<ItemTemplate>
<asp:Button runat="server" Text="Delete" CommandName="Delete" CausesValidation="false" BackColor="White"
ForeColor="red"></asp:Button>
</ItemTemplate>
</asp:TemplateColumn>
</Columns>
</asp:DataGrid>
Manage User Accounts

File Name:  Gatemaint.asp

Description: Lists user account information and allows modifying user's passwords and privileges.

Language:  Vbscript

---

Code

```vbscript
<% 'Account Maint
 'By Allen Lenaburg

if session("master")<>true then response.redirect "2def.htm"

'declare variables.

dim cnn
dim rst
dim vname
dim username
dim vpwd
dim vcategory
dim vid

Dim lb_validData

' on error resume next

'start writing the html document

With Response

 .Write "<html>"
 .Write "<head>"
 .Write "<title>Gate Maint</title>"
 .Write "<LINK rel=stylesheet type=text/css href=default.css>"
 .Write "<head>"
 .Write "<body>"

End With

' open the database object

'do the work

If (Request.Form("ls_submit") = "Submit") then ' save the form data

'delete routine

if request.form("ls_delete")="on" then

llreturn=deleteRecord()

response.end

delone

End if

ll_return = save() ' call the local function to save the record

if ll_return>0 then response.write "Error" & ll_return

response.end

response.write err.description

else

'try to pull up the record from the UID

vuserid=request("q")

If vuserid <> "" Then ' pull up the event_id's record

' get the record from the database

' open the database object

openDatabase cnn,rst

sql="select * from passgate where id=" & vuserid
```
rst.open(sql),cnn,2,3  
' put the recordset's values into local variables  
If not rst.EOF Then  
' read in the strings  
vname=rst("fname")  
vname=rst("fname")  
username = rst( "username" )  
vpwd = rst("pwd" )  
vcategory = rst( "category" )  
vid=rst("id")  
end if  
' close database  
rst.close  
cnn.close  
set rst=nothing  
set cnn=nothing  
end if  
End If  
' Write out the form  
With Response  
' start writing out the form  
.Write "<form name=form1 method=post>"  
.Write "<hr>"  
.Write "<td><b>View/Edit Data</b></td><br>"  
.Write "Record " & vid  
.Write "<table border=0 width=50%'>"  
.Write "<tr align-left'>"  
.Write "<td class=eventLabel' valign='top'>LastName:</td>"  
.Write "<td><input type='text' name='lname' value=" & vname & ">"  
.Write "<td class=eventLabel' valign='top'>First Name:</td>"  
.Write "<td><input type='text' name='fname' value=" & vname & ">"  
.Write "<td><td><input type='text' name='username' value=" & username & ">"  
.Write "<td><input type='text' name='pwd' value=" & vpwd & ">"  
.Write "<td><input type='text' name='category' value=" & vcategory & ">"  
.Write "<td><input type='hidden' name='uid' value=" & vid & ">"  
.Write "</tr>"  
.Write "</table>"  
.Write "<br><br>"  
.Write "</form>"  
.Write "<input type='button' name='History' value='History'>"  
.Write "onclick=document.location.href='loghistory.ASP?q=" & vid & ">"  
.Write "<input type='button' name='Return' value='Return'">"  
.Write "onclick=document.location.href='gatelist.ASP'>"  
.Write "</body>"  
.Write "</html>"  
End With  
response.write err.description  
*****************************************************************************  
Private Function saveO()  
' declare some variables  
Dim cnn  
Dim rst
Dim sql

' get the existing record, or get a new record.
vusemame = Request("usemame")
sql = "SELECT * FROM passgate WHERE username=" & vusemame & ";"

'open database
opendatabase cnn,rst
with rst
    .Open sql, cnn, 2, 3
    If .EOF Then .AddNew ' if there wasn't a record, add a new one

    ' set values for the fields in the record
    .Fields("fname") = request.form("fname")
    .Fields("username") = Request.Form("username")
    .Fields("pwd") = Request.Form("pwd")
    .Fields("category") = Request.Form("category")
    Update
End With

' close and dispose of resources
Set rst = Nothing
response.write "<br>User " & request.form("uid") & ": User Is Deleted</br>"
response.Write "<br><a href='gatelist.asp'>Return</a></br>"
End Function ' save

*******************************************************************************

private function deleterecord() 
dim vuserid = request.form("uid")

sql = "delete FROM passgate WHERE id=" & vuserid & ";"
'open database
opendatabase cnn,rst
cnn.execute(sql)
cnn.close
set cnn=nothing
response.write "<br>User " & request.form("uid") & ": User Is Deleted</br>"
response.Write "<br><a href='gatelist.asp'>Return</a></br>"
response.write err.description
response.end
end function

*******************************************************************************

sub opendatabase(fcnn,frst)
set fcn = server.createobject("adodb.connection")
set frst = server.createobject("adodb.recordset")
fcnn.open "dsn=merya.sitedata;uid=admin;pwd=n411al"
frst.open "passgate", cnn, 2, 3
'sql="create table passgate (username varchar(20) not null,"
'sql=sql & " pwd varchar(10) not null,category varchar(10) not null")"
cnn.execute (sql)
end sub

*******************************************************************************
Display User Activity

File Name: LogHistory.asp

Description: Displays a history of user's access to the intranet site.

Language: Vbscript

Code

<html>
<head>
</head>
<body>
<p align="center">LOG HISTORY</p>
%
  dim vuser
  'Displays the history of the selected person
  'By Allen Lenaburg
  if session("master")<>true then response.redirect "2def.htm"
  response.write "<p><center>User Log</center></p>"
  response.write "<br>"
  dim cnn
  dim rs
  vuser=request("q")
  set cnn=server.createobject("adodb.connection")
  set rs=server.createobject("adodb.recordset")
  cnn.open"dsn=mercyasitedata;uid=admin;pwd=n411al"
  'sql="select * from passlog order by id"
  sql="SELECT passgate.id,passgate.username,passgate.lname, passgate.fname, passlog.sessiondate"
  sql=sql & " FROM passgate INNER JOIN passlog ON passgate.id = passlog.staffid"
  sql=sql & " where [passgate].[id]=" & vuser
  sql=sql & " ORDER BY datevalue(passlog.sessiondate);"
  rs.open(sql),cnn,2,3
  if rs.bof=true or rs.eof=true then
    response.write "No Records"
    call database_close(cnn,rs)
  else
    rs.movefirst
    with response
    .write "<p><center>[" & rs("id") & "] &nbsp&nbsp" & rs("fname") & 
&nbsp&nbsp & rs("lname") & 
"<p>"
    .write "<table>"
    do while not rs.eof
    .write "<tr><td>&nbspnbsp" & rs("sessiondate") & "</td></tr>"
    rs.movenext
    loop
    .write "</table>"
  end with
end if

76
function database_close(fcnn,frs)
frs.close
set frs=nothing
fcnn.close
set fcnn=nothing
end function

%>
</body>

</html>
User Authentication Page

File Name: passgate.asp

Description: Authenticates users against a database and assigns the appropriate privilege levels.

Language: Vbscript

Code

<% on error resume next
    dim cnn
    dim rs
    dim vid
    dim vname
    dim vfname
    dim vuser
    dim vpassw
    vuser=lcase(request.form("user"))
    vpassw=lcase(request.form("passw"))
    set cnn=server.createobject("adodb.connection")
    set rs=server.createobject("adodb.recordset")
    cnn.open "dsn=mercya.sitedata;uid=admin;pwd=n411al"
    sql="select * from passgate "
    sql=sql + "where username=" & vuser & " and pwd=" & vpassw & ""
    rs.open (sql),cnn,2,3
    if not rs.eof then
        select case rs("category")
            case "Master"
            session("master")=true
            session("authenticated")=true
            session("authuser")=true
            case else
            response.redirect "2def.htm"
        end select
        else
            response.redirect "2def.htm"
        end if
    end if
    vid=rs("id") ******set session id for list boxes *********
    session("sid")=vid
    vdate=cstr(now)
    sql="insert into passlog (staffid,sessiondate)"
    sql=sql & "values (" & vid & "," & vdate & ")"
    cnn.execute(sql)
    set rs=nothing
    rs.close
    set cnn=nothing
    cnn.close
    response.redirect "maingate.htm"
    response.write err.description & "<p>
%>
User Log-in Page

File Name: 2def.htm

Description: Form that permits users to enter username and password information to be authenticated.

Language: HTML

Code

```html
<html>
<head>
<title>New Page 1</title>
<meta http-equiv="Content-Language" content="en-us" />
<meta http-equiv="Content-Type" content="text/html; charset=windows-1252" />
<meta content="Microsoft FrontPage 4.0" name="GENERATOR" />
<meta content="FrontPage.Editor.Document" name="ProgId" />
<base target="_top" />
<script language="vbscript" id="clientEventHandlersVBS">
<!--
Sub BTNSubmit_onclickO
 call passcheck.submit
 End Sub
-->
</script>
</head>
<body>
<form name="passcheck" action="passcheck.asp" method="post">
<p align="center">
 SITE AUTHENTICATION
</p>
<p>
<img height="75" src="/images/logo.gif" width="270" border="0" />
</p>
<p>
&nbsp; PLEASE ENTER USERNAME
<input type="text" size="20" name="user" />
</p>
<p>
&nbsp; PASSW0RD
<input type="password" size="20" name="passw" />
</p>

</form>
</body>
</html>
```
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbs...
Database Connection File

File Name: Vbconnect.vb

Description: File that contains the information for connecting to a database. Should be compiled by the utility vbc.exe.

Language: vb.net

---

Code

'Database Connection
'By Allen Lenaburg

Imports System
imports system.data
imports system.data.SqlClient
imports system.xml

Namespace conn

Public Class dbconn
    inherits System.Web.UI.Page
    Function getquery(pwds)
        dim ex as exception
        try
            if pwds="password" then

                Dim connectionString as String="server=myserver'; user id='user id'; password='mypassword'; Database='mercya""

                Dim sqlConn As New SqlConnection(connectionString)
                Return sqlConn
            else
                response.write("Not Permitted")
            end if
            catch ex
                response.write("Error: " & ex.message)
            end try
        End Function
    End Class
End Namespace
Sample Connection To A Microsoft Access Database

File Name:  Odbc.aspx

Description: Contains the information for connecting to a Microsoft Access database.

Language:  Vb.net

Code

'Sample Code For Access Database
'By Allen Lenaburg

Sub Page_Load(sender As Object, e As EventArgs)
Dim oODBCConnection As Odbc.OdbcConnection
Dim sConnString As String = "Dsn=meroya.sitedata;" & 
    "Uid=userid;" & 
    "Pwd=password"
oODBCConnection = New Odbc.OdbcConnection(sConnString)
oODBCConnection.Open()

Dim cmd As New odbcCommand()
cmd.connection=oODBCConnection
    Dim queryString As String
    Dim datareader As odbcdatareader
    queryString="select * from roster"
    cmd.commandtext=querystring
    datareader=cmd.executeReader()
    datareader.read()
    response.write(datareader.item(1))
oODBCConnection.close
    cmd.dispose()
cmd=nothing
oODBCConnection.dispose()
oODBCConnection=nothing
End Sub
APPENDIX D

DATABASE STRUCTURE
Table 1

Calendar Events

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Event_id</td>
<td>Integer</td>
<td>Primary Key</td>
</tr>
<tr>
<td>Name</td>
<td>Text</td>
<td>Title of event</td>
</tr>
<tr>
<td>Start_dt</td>
<td>Date</td>
<td>Starting date</td>
</tr>
<tr>
<td>Start_time</td>
<td>Date</td>
<td>Starting time</td>
</tr>
<tr>
<td>End_dt</td>
<td>Date</td>
<td>Ending date</td>
</tr>
<tr>
<td>End_time</td>
<td>Date</td>
<td>Ending time</td>
</tr>
<tr>
<td>Location</td>
<td>Text</td>
<td>Event location</td>
</tr>
<tr>
<td>Description</td>
<td>Text</td>
<td>Event description</td>
</tr>
<tr>
<td>Lastmodified_dt</td>
<td>Date</td>
<td>Timestamp</td>
</tr>
<tr>
<td>Category</td>
<td>Text</td>
<td>Event category</td>
</tr>
<tr>
<td>Author</td>
<td>Text</td>
<td>Event creator</td>
</tr>
</tbody>
</table>

Note. Table name is event_calendar and stores data related to events.
Table 2

**User Accounts**

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Id</td>
<td>Integer</td>
<td>Primary Key</td>
</tr>
<tr>
<td>Username</td>
<td>Text</td>
<td>Employee username</td>
</tr>
<tr>
<td>Pwd</td>
<td>Text</td>
<td>Employee password</td>
</tr>
<tr>
<td>Category</td>
<td>Text</td>
<td>Privilege level</td>
</tr>
<tr>
<td>Lname</td>
<td>Text</td>
<td>Last name</td>
</tr>
<tr>
<td>Fname</td>
<td>Text</td>
<td>First name</td>
</tr>
</tbody>
</table>

Note. Table name is passgate and contains user account information
Table 3

User Log-in History

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Id</td>
<td>Integer</td>
<td>Primary Key</td>
</tr>
<tr>
<td>Username</td>
<td>Text</td>
<td>Employee username</td>
</tr>
<tr>
<td>Sessiondate</td>
<td>Date</td>
<td>Date of session</td>
</tr>
<tr>
<td>Staffid</td>
<td>Integer</td>
<td>Foreign key linked to passlog</td>
</tr>
<tr>
<td></td>
<td></td>
<td>primary key</td>
</tr>
</tbody>
</table>

Note. Table name is passlog and records user activity
Table 4

Training Roster

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Id</td>
<td>Integer</td>
<td>Primary key</td>
</tr>
<tr>
<td>Classid</td>
<td>Integer</td>
<td>Foreign key linked to Event_calendar primary key</td>
</tr>
<tr>
<td>Employeeid</td>
<td>Integer</td>
<td>Foreign key linked to passlog primary key</td>
</tr>
<tr>
<td>Email</td>
<td>Text</td>
<td>User Email</td>
</tr>
<tr>
<td>Phone</td>
<td>Text</td>
<td>User Telephone</td>
</tr>
<tr>
<td>Confirmed</td>
<td>Yes/no</td>
<td>Confirmation of attendance</td>
</tr>
<tr>
<td>Today_date</td>
<td>Date</td>
<td>Date of registration</td>
</tr>
</tbody>
</table>

Note. Table name is roster, and it maintains training rosters for selected events
Table 5

*File Publishing*

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Id</td>
<td>Integer</td>
<td>Primary key</td>
</tr>
<tr>
<td>Filename</td>
<td>Text</td>
<td>Name of file</td>
</tr>
<tr>
<td>Category</td>
<td>Text</td>
<td>Category of file</td>
</tr>
<tr>
<td>Description</td>
<td>Text</td>
<td>Description of file</td>
</tr>
<tr>
<td>Author</td>
<td>Text</td>
<td>File creator</td>
</tr>
<tr>
<td>Lockout</td>
<td>Yes/no</td>
<td>File lock status</td>
</tr>
<tr>
<td>Datecreated</td>
<td>Date</td>
<td>Date uploaded</td>
</tr>
</tbody>
</table>

*Note.* *Table name is fload, and it tracks files uploaded and viewed on the server*
REFERENCES


