2003

Mobile used car prices and information

Ting-Shiuan Chang

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MOBILE USED CAR PRICES AND INFORMATION

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

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

by
Ting-Shiuan Chang
June 2003
MOBILE USED CAR PRICES AND INFORMATION

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5 June 2003
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ABSTRACT

The demand for wireless access is a major force behind the growth of the global communication industry, providing the consumer with the benefits of portability as well as other advantages. This phenomenon is best seen in the telecommunications industry. However, wireless access technologies are not restricted to telephones. Personal digital assistants (PDAs) such as Palm OS devices have been improved and also support for wireless networks.

MOBILE USED CAR PRICES AND INFORMATION is a software system which allows users to read the used car values and car equipment from Palm OS devices. This Wireless Web application is to develop a mobile vehicle Web application for clients who are interested in used cars. Palm OS devices provide the wireless access to the internet and communicate with a desktop computer. Therefore, the basic design of this project is simply to communicate between Palm OS devices and a remote server.

This project was implemented in Web clipping which is created to deliver the World Wide Web on Palm OS devices. A Web clipping application (WCA) looks like a web application because both of them are written by HTML. However, due to the limitations of Palm OS devices, a WCA does not provide full HTML and the web pages over the internet can not be
shown properly on the screen of Palm OS devices. This means this project was designed only for Palm OS users.
ACKNOWLEDGMENTS

The support of the National Science Foundation under award 9810708 is gratefully acknowledged.
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CHAPTER ONE
SOFTWARE REQUIREMENTS SPECIFICATION

1.1 Introduction

The use of wireless devices such as cellular phones, two-way pagers and Personal Digital Assistants (PDAs) has undergone tremendous growth over the past few years. A Personal Digital Assistant (PDA) is a handheld device that combines computing, Internet, and networking features. Originally PDAs were used mainly for their contact management, calendar and to-do list functionality. As the technology has progressed, PDA capabilities have increased and today you can check email, browse the web or edit Microsoft Office documents from your Personal Digital Assistant.

There are two major categories of PDAs: those that use the Palm OS as their operating system, and those that use the Microsoft Pocket PC OS as their operating system. In October 1999, Palm, Inc. entered the wireless Internet market with the introduction of the Palm VII organizer. The Palm VII would be useful beyond its wireless capabilities. Then, Palm, Inc. created a Web content delivery technology called Web clipping that is based on Hypertext Makeup Language (HTML); Web clipping content is optimized for Palm OS
devices. However, the screen size of Palm OS devices is significantly smaller than the size of a desktop computer screen and because of its limited size of the device; the result does not come close to displaying properly on the Palm OS device. The speed and expense of wireless networks also does not come close to matching today's wired network.

Due to these limitations, Palm, Inc. has created Web clipping to deliver as much of the Web experience as possible, redefine and package some components to perform better on Palm OS devices, and discard the rest. The biggest difference between Web clipping applications (WCAs) and standard World Web applications is that Web clipping application are started by launching an application file installed by the user onto the device instead of typing a URL into a Web browser.

The Palm OS Emulator (POSE) simulates the operation of an actual Palm OS device on the desktop computer. This project uses POSE to develop a Web clipping application called Mobile Used Car Prices and Information.

1.2 Purpose of the Project

Wireless is getting more important and popular than because its convenience and portability make things easier. The goal of this project is to develop a mobile vehicle
application called MOBILE USED CAR PRICES AND INFORMATION and this application provides the prices and information for clients. The clients can use their Palm handheld devices to read the prices and information whenever they want to check.

1.3 Context of the Problem

Most people go to the used car center and try to find a used car which satisfies their own standards. This means a person is not sure about what kind of car and which year she/he exactly need and sometimes one may encounter some interesting used cars that have never appeared in one’s mind. In this situation, one does not want to drive back home and try to do some more research again because it wastes time. Therefore, the wireless technology will give one a way to solve the problem and a PDA will provide a fast and convenient solution.

1.4 Significance of the Project

The significance of the project was because the wireless technology has been widely used over the past few years and Personal Digital Assistants (PDAs) have been improved to include the wireless technology. We can feel that the wireless devices are part of our life and in the future it will be heavily used by us. Therefore, a wireless
application can be the practical proof of the successful wireless technology.

1.5 Assumptions

The following assumptions were made regarding the project:

1. This project requires a basic knowledge of wireless communication.

2. The clients need to know how to use and install an application on the Palm handheld device.

3. Not all Palm OS devices support Web clipping technology and Web clipping support can be found on Palm VII, Palm m500, Palm m505 etc.

4. Palm OS Emulator (POSE) simulates the operation of an actual Palm OS device on the desktop computer and POSE is used by developing this master’s project.

5. The operating system for the desktop computer is Microsoft Windows 2000 professional and the operating system for Palm OS devices or POSE is Palm OS 3.5 or up.

1.6 Limitations

First, the screen size of Palm OS devices is obviously smaller than the size of a desktop computer screen and when
you write the program the result on the screen of Palm OS devices may be improper.

Second, the speed of wireless networks is much slower than today's wired network and a complicated program makes the situation worst.

Third, the expense of wireless networks is higher than today's wired network.

Fourth, Palm OS devices have performance and memory issues for supporting every Web technology. This means Palm OS devices can not provide full HTML support and web pages over the internet can not be shown correctly on the screen of Palm OS devices.

Fifth, there are thousands of different used cars and different years have different prices and information. This project only implemented several used cars and several different years.

1.7 Definition of Terms

The following terms are defined as they apply to the project.

Table 1. Definition of Terms

<p>| Palm OS device | A personal handheld organizer. Since the release of the Pilot 1000 in 1996, |</p>
<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>devices running Palm OS</td>
<td>have dominated the handheld computing market. Devices running the Palm OS are not intended to be portable versions of desktop computer. Instead, the handheld is a satellite device, designed as an extension to a desktop system.</td>
</tr>
<tr>
<td>PDA</td>
<td>Personal Digital Assistant. A PDA is a handheld device that combines computing, Internet, and networking features.</td>
</tr>
<tr>
<td>GUI</td>
<td>Graphical User Interface. The graphical representation of physical or pseudo-physical objects (such as buttons, trees, and lists) that allow the user to direct the flow of the program through the use of a mouse or other pointing device.</td>
</tr>
<tr>
<td>HTML</td>
<td>Hypertext Markup Language. A language that describes the formatting of text inside a browser.</td>
</tr>
<tr>
<td>Windows 2000 pro</td>
<td>Microsoft Windows 2000 professional is an operating system for personal computer.</td>
</tr>
<tr>
<td>The Apache HTTP server</td>
<td>The Apache HTTP Server Project is an effort to develop and maintain an open-</td>
</tr>
</tbody>
</table>
source HTTP server for modern operating systems including UNIX and Windows NT. The goal of this project is to provide a secure, efficient and extensible server that provides HTTP services in sync with the current HTTP standards.

<table>
<thead>
<tr>
<th><strong>PHP</strong></th>
<th>PHP stands for the Hypertext Preprocessor. PHP is a widely-used general-purpose scripting language that is especially suited for Web development and can be embedded into HTML.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>phpMyAdmin</strong></td>
<td>phpMyAdmin is a tool written in PHP intended to handle the administration of MySQL over the <a href="http://WWW">WWW</a>. Currently it can create and drop databases, create/drop/alter tables, delete/edit/add fields, execute any SQL statement, manage keys on fields.</td>
</tr>
<tr>
<td><strong>MySQL</strong></td>
<td>MySQL is the world's most popular open source database, recognized for its speed and reliability. MySQL AB, the company founded by the creators of the MySQL database, provides MySQL software</td>
</tr>
<tr>
<td>WCA</td>
<td>Web Clipping Application. WCAs appear as icons in the Application Launcher alongside the Address Book, MemoPad, and other Palm OS application.</td>
</tr>
<tr>
<td>-----------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>POSE</td>
<td>Palm OS Emulator. A POSE simulates the operation of an actual Palm OS device on the desktop computer.</td>
</tr>
<tr>
<td>WCA Builder</td>
<td>Web Clipping Application Builder. To build a Web clipping application (WCA), Palm, Inc. has provided a utility called the Web Clipping Application Builder.</td>
</tr>
<tr>
<td>PQA</td>
<td>Palm Query Application. A PQA is a special type application for Palm OS devices that allows a user to interact wirelessly with Web content.</td>
</tr>
</tbody>
</table>
1.8 Organization of the Thesis

The thesis portion of the project was divided into six chapters. Chapter One provides software requirements specification, an introduction to the context of the problem, purpose of the project, significance of the project, limitations, and definitions of terms. Chapter Two consists of the software design. Chapter Three documents the steps used in testing the project. Chapter Four presents the maintenance required from the project. Chapter Five presents the users manual from the project. Chapter Six presents conclusions drawn from the development of the project. The Appendices containing the project follows Chapter Six. Finally, the references for the project are presented.
CHAPTER TWO
SOFTWARE DESIGN

2.1 Introduction
The intent of this project is to design a system that can show the prices and information of the used car on the Palm handheld devices. Web clipping is the name Palm, Inc. created for their Web content delivery system designed for their line of Palm OS devices. This technology allows Palm OS devices to deliver the Web Wide Web and gives the programmer a way to design a software application on the Palm handheld devices. Because of the expense of Palm handheld devices this project uses Palm OS Emulator (POSE) to develop a mobile vehicle application which uses Web clipping as its programming language. Web clipping application is the web application for Palm OS devices.

2.2 Preliminary Design
The basic idea of this project is to communicate between Palm OS devices and a remote server side. The design for this server is to develop the web application by using HTML and PHP as its programming languages. The web application for this server provides a way to manage the customer information and the used car information. This means the administrator can create, change, view or delete
the used car information and the user can register their information into this database. This server side is on the desktop of a personal computer and this server needs to be started whenever Palm OS devices are trying to send the request. On the Palm OS device, the client has to install the Web clipping application which contains Graphical user interfaces (GUIs) and then the client can proceed from the main page to the finally specified car page. Then the specified car page sends a request from the Palm OS device to Web clipping proxy server and waits for result from Web clipping proxy server. The proxy server sends the request forward to the remote server side.

This server side contains a database which stores the prices and relative information. When the server receives a request from the Web clipping proxy server it will use those variables to do some operations like checking the password, calculating the price and finding the data. After the server has done all operations, it responds the required price and information to the Web clipping proxy server. The Web clipping proxy server converts the proper languages and discards the improper languages. Then the proxy server sends the result back to the Palm OS device and the user can see the price and information on the screen. The communication
between the Palm OS device and the MOBILE USED CAR PRICES AND INFORMATION server can be shown as Figure 1.

![Diagram](image)

Figure 1. Wireless Communication

2.3 Architecture Design

This system is divided into two parts. One is the application for Palm OS devices and the other one is the server side.
2.3.1 Development Environment

The client side is on the Palm OS devices and the server side is on the desktop of a personal computer (PC). The development environment is described by the following two subsections. The hardware of this system is listed as a table in the first subsection and the software of this system is listed as a table in the second subsection.

2.3.1.1 Platform and Environment Requirements. The following table shows the required platform and environments of MOBILE USED CAR PRICES AND INFORMATION.

<table>
<thead>
<tr>
<th></th>
<th>Palm OS devices</th>
<th>Personal Computer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td>Palm OS 3.5 or up</td>
<td>Microsoft Windows 2000 pro</td>
</tr>
<tr>
<td>Memory</td>
<td>16MB or higher</td>
<td>128MB recommend or higher</td>
</tr>
<tr>
<td>Free disk space</td>
<td></td>
<td>200MB recommended</td>
</tr>
<tr>
<td>Devise version</td>
<td>Palm VII, Palm VIIx, Palm m500, Palm m500c, Palm m505, Palm m515 etc.</td>
<td></td>
</tr>
</tbody>
</table>
2.3.1.2 Middleware and Applications Software

Requirements. The following table shows the required middleware and applications software of MOBILE USED CAR PRICES AND INFORMATION.

Table 3. Middleware Requirements

<table>
<thead>
<tr>
<th>Technologies</th>
<th>The Client Side</th>
<th>The Server side</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Web Clipping Application (WCA)</td>
<td>PHP 4.0, Hypertext Markup Language (HTML) and MySQL</td>
</tr>
<tr>
<td>Software tools for development</td>
<td>Notepad, WCA Builder, Palm OS Emulator (POSE) and Adobe Photoshop 6.0</td>
<td>Notepad, Microsoft FrontPage, PHPMyAdmin, Apache HTTP server, Internet explorer (IE), MySQL Database and Adobe Photoshop 6.0</td>
</tr>
</tbody>
</table>
2.3.2 Architecture Overview

(1) When the client sends a request such as links or forms from a palm OS device, the local Palm.net station receives the compressed packet and relays the compressed packet to the palm web clipping proxy server. (2) The web clipping proxy server that receives the compressed packet converts it into a standard packet and sends this standard packet to the web application server through the internet. (3) The web application server will interact with database and send the result back to web clipping proxy server through the internet. (4) When the web clipping proxy server receives the result, the proxy server will convert the proper language and discard the improper language into a compressed packet. (5) The web clipping proxy server sends the compressed packet to the local Palm.net station. (6) The local Palm.net station relays the compressed packet to the palm OS device. (7) The result will show in the screen of the Palm OS device. The following diagram shows the architecture overview of this system.
This following picture is another view of this architecture overview. In this system, you can access the web clipping application GUI on palm OS devices and communicate with web application server.

You also can access the web GUI on regular workstation and communicate with the web application server.
2.3.3 Functional Requirements

The operational structures of MOBILE USED CAR PRICES AND INFORMATION are described in this section.

2.3.3.1 Use Case Diagram. This system has three different users which are new member, member and administrator. All of them will be described as the following subsections.
2.3.3.1.1 New Member. The functional design of New Member is to apply the application and join the membership of MOBILE USED CAR PRICES AND INFORMATION. The use case diagram for New Member is as following:

```
  New Member -> Input Personal Data
```

Figure 4. New Member Diagram

2.3.3.1.2 Member. The main design for Member is to obtain the software and install the software on Palm OS devices. Once the user becomes the member then he/she will be able to use this software on Palm OS devices. The following two diagrams describe the functions for member. The first diagram describes the member’s functions for the Palm OS device and the second diagram describes the member’s functions for the server side.
Figure 5. Member for Palm Diagram

Figure 6. Member for Server Diagram
2.3.3.1.3 Administrator. The administrator has numerous functions because its role is definite a manager. A manager has to do all kinds of jobs to keep this system available. The administrator manages Members, Used Car Information, Mileage, Equipment and Equipment price. These jobs are to input, register, update, view, delete and so on. The sixth function is the Search function. This user case diagram for Administrator shows the main six functions. The detailed sub functions won’t be explained here and I will describe all of them in Chapter Five.

Figure 7. Administrator Diagram
2.4 Database Design

This section shows the database design of MOBILE USED CAR PRICES AND INFORMATION. There are seven tables in the database and the following items show the design of tables in the database.

1. Customer_information has personal information such as account id, last name, first name, email, phone, address, city, country and password. This table stores all information from members.

2. Administrator_info has only name and password because it is designed to be programmers.

3. This system needs to do some calculations and these calculations need the data from the database. First, the equation for calculating the final price is depending on several factors. The simple equations can be shown as following:

\[
\begin{align*}
\text{ADJUSED WHOLESALE PRICE} & = \text{STANDARD WHOLESALE PRICE} + (\text{-}) \\
\text{MILEAGE ADJUSTMENT} & = \text{EQUIPMENT ADJUSTMENT} \\
\text{ADJUSTED RETAIL PRICE} & = \text{STANDARD RETAIL PRICE} + (\text{-}) \text{ MILEAGE ADJUSTMENT} + (\text{-}) \text{ EQUIPMENT ADJUSTMENT}
\end{align*}
\]

The factor affects all of them is the year of that car and this means different year has different wholesale price, retail price, averaged mileage and equipment price.
Therefore, the following tables will be created to do these calculations.

4. Used_car_information contains information number, category, make, model, year, type, transmission, engine, drive, equipment, wholesale, retail, and mileage. The equipment is assumed to be the standard equipment which basically comes with the vehicle. The mileage in this table means the averaged mileage for a particular year. The wholesale price and retail price are decided by this averaged mileage.

5. Equipment, Factory_equipment_cars, and Schedule is created for equipment adjustment. This equipment adjustment affects the final price which will be shown on the screen. Equipment contains the name and number. This number will be used by Schedule to create another number called final number. This final number and year will decide the price and this price will be added or deducted from wholesale price or retail price.

6. Mileage_adjustment has table, mileage, year and price.

Present the structure of this database; three different diagrams which are conceptual model diagram, entity-relationship diagram (ER diagram) and relational database
schema. These database diagrams will be described one by one in the following subsections.

2.4.1 Conceptual Model Diagram

The following two figures present the conceptual model diagrams of this database. Each diagram describes the various components.
Customer_information

Account_id
Lastname
Firstname
Email
Phone
Address
City
Country
Password

Administrator_info

Name
Password

Equipment

Name
Number

Schedule

Final_no
Eq_no
Schedule_no

Figure 8. Conceptual Model Diagram Part One
2.4.2 Entity-Relationship Diagram

Because there are seven tables this diagram is separated into two figures and Administrator_info is the connection between part one and part two.
Figure 10. Entity-Relationship Diagram Part One
Figure 11. Entity-Relationship Diagram Part Two
2.4.3 Relational Database Schema

**CUSTOMER INFORMATION**

| Account id | Password | Lastname | Firstname | Email | Phone | Address | City | Country |

**ADMINISTRATOR_INFO**

| Password | Name |

**USED_CAR_INFORMATION**

| Info number | Category | Make | Model | Year | Type | Transmission | Engine | Drive | Equipment | Wholesale | Retail | Mileage |

**EQUIPMENT**

| Number | Name |

**SCHEDULE**

| Final number | Eq_no | Schedule_no |

**FACTORY_EQUIPMENT_CARS**

| Final number | Year | Price |

**MILEAGE_ADJUSTMENT**

| Table | Mileage | Year | Price |

Figure 12. Relational Database Schema
2.5 Summary

The software design of MOBILE USED CAR PRICES AND INFORMATION helps to develop a more completely functional and achievable system. During the whole implementation phase a good software design reduces the unexpected results and guides the programmer to more flexible solutions. Actually, the design phase is far important than the coding phase. The preliminary design guided the basic idea of this project and gave a right direction during the first phase. The architecture design describes the requirements for both software and hardware. After the software environment and hardware environment were decided, the programming phase luckily was successful. Those functional diagrams helped to determine the functionality of each different user. The database design was successfully implemented in the MySQL language and the database diagrams helped to determine the relationship between each table. After combining all the efforts from each software design this project was completed.
CHAPTER THREE
SOFTWARE QUALITY ASSURANCE

3.1 Introduction

Software Quality Assurance involves the entire software development PROCESS - monitoring and improving the process, making sure that any agreed-upon standards and procedures are followed, and ensuring that problems are found and dealt with. In this system, the software quality assurance has been done by the following subsections.

3.2 Unit Test Plan

The unit test is the initial step in the software testing process and it focuses on the smallest functional unit of design. This section will provide overview, test plan, and results of the unit testing of the MOBILE USED CAR PRICES AND INFORMATION system. In MOBILE USED CAR PRICES AND INFORMATION the unit test includes several things to check for each functional unit and make sure that all the command buttons and links work as expected.

For both of POSE and server each single interface will be tested by following criteria:

1. Check all Graphics

To check if all graphics are shown as the programmers intended and if there is any unforeseen problem in viewing
these graphics. Also check if it’s a linked image it must link to the right page.

2. Check all text

To check all text is the right information for that particular page and also check the font, grammar and spelling errors that wouldn’t be caught by the computer.

3. Check all buttons

To check all buttons are shown in the screen and also check all buttons link to the right place.

4. Check all hyperlinks

All links must link to the right page.

5. Check all forms

To check if all forms are shown as the right page and all the field names and input type are correct.

The following tables show the unit test plan for MOBILE USED CAR PRICES AND INFORMATION. It is better to separate into two tables. One is for Palm OS devices and the other one is for server.

The following table is the unit test plan for Palm OS devices.

Table 4. Unit Test Plan Part One

<table>
<thead>
<tr>
<th>Unit tested</th>
<th>Test Performed</th>
<th>Results</th>
</tr>
</thead>
</table>

31
<table>
<thead>
<tr>
<th>Category</th>
<th>Checklist</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home</td>
<td>Check the graphics.</td>
<td>Pass</td>
</tr>
<tr>
<td></td>
<td>Check the enter button links to Login page.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check all text.</td>
<td></td>
</tr>
<tr>
<td>Login</td>
<td>Check all linked graphics.</td>
<td>Pass</td>
</tr>
<tr>
<td></td>
<td>Check the input field is shown in the screen.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check submit button and reset button work correctly.</td>
<td></td>
</tr>
<tr>
<td>Password</td>
<td>Check the result.</td>
<td>Pass</td>
</tr>
<tr>
<td></td>
<td>Check all buttons.</td>
<td></td>
</tr>
<tr>
<td>Category</td>
<td>Check the graphic is shown in the screen.</td>
<td>Pass</td>
</tr>
<tr>
<td></td>
<td>Check the linked graphic.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check all buttons link to the right page.</td>
<td></td>
</tr>
<tr>
<td>Make</td>
<td>Check the graphic is shown in the screen.</td>
<td>Pass</td>
</tr>
<tr>
<td></td>
<td>Check the linked graphic.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check all buttons link to the right page.</td>
<td></td>
</tr>
<tr>
<td>Model</td>
<td>Check the correct graphics is shown in the screen.</td>
<td>Pass</td>
</tr>
<tr>
<td>Year</td>
<td>Check the correct graphics is shown in the screen. Check all linked graphics. Check all buttons link to the right page.</td>
<td>Pass</td>
</tr>
<tr>
<td>----------</td>
<td>-------------------------------------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Type</td>
<td>Check the correct graphics is shown in the screen. Check all linked graphics. Check all buttons link to the right page.</td>
<td>Pass</td>
</tr>
<tr>
<td>Transmission</td>
<td>Check the correct graphics is shown in the screen. Check all linked graphics. Check all buttons link to the right page.</td>
<td>Pass</td>
</tr>
<tr>
<td>Option</td>
<td>Check the correct graphics is shown in the screen. Check all linked graphics. Check all buttons link to the right page.</td>
<td>Pass</td>
</tr>
<tr>
<td>Picture</td>
<td>Check the correct graphics is shown in the screen. Check all linked graphics.</td>
<td>Pass</td>
</tr>
<tr>
<td>---------------------</td>
<td>--------------------------------------------------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>Mileage Adjustment</td>
<td>Check the input field is shown in the screen.</td>
<td>Pass</td>
</tr>
<tr>
<td>Equipment Adjustment</td>
<td>Check all CHECKBOX type tags are shown in the screen and work correctly</td>
<td>Pass</td>
</tr>
<tr>
<td>Price Adjustment</td>
<td>Check these two CHECKBOX type tags are shown in the screen and work correctly.</td>
<td>Pass</td>
</tr>
</tbody>
</table>

The unit test plan for server is listed by the following table and it has been tested by using the criteria I described before.

Table 5. Unit Test Plan Part Two

<table>
<thead>
<tr>
<th>Unit tested</th>
<th>Tested performed</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home</td>
<td>Check all text.</td>
<td>Pass</td>
</tr>
<tr>
<td></td>
<td>Check all linked or non-linked graphics.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check all hyperlinks.</td>
<td></td>
</tr>
<tr>
<td>Introduction</td>
<td>Check all text.</td>
<td>Pass</td>
</tr>
<tr>
<td>-------------------------------------------------</td>
<td>---------------------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>Check all linked or non-linked graphics.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check all hyperlinks.</td>
<td></td>
</tr>
<tr>
<td>New Member Form</td>
<td>Check all linked or non-linked graphics.</td>
<td>Pass</td>
</tr>
<tr>
<td></td>
<td>Check all input fields.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check all buttons.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check the result.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check all hyperlinks.</td>
<td></td>
</tr>
<tr>
<td>Member Login</td>
<td>Check the password field.</td>
<td>Pass</td>
</tr>
<tr>
<td></td>
<td>Check all linked or non-linked graphics.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check the result.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check all hyperlinks.</td>
<td></td>
</tr>
<tr>
<td>Obtain the software</td>
<td>Check all linked or non-linked graphics.</td>
<td>Pass</td>
</tr>
<tr>
<td></td>
<td>Check all input fields.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check all hyperlinks.</td>
<td></td>
</tr>
<tr>
<td>Change the information</td>
<td>Check all input fields.</td>
<td>Pass</td>
</tr>
<tr>
<td></td>
<td>Check all linked or non-linked graphics.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check all buttons.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check the result.</td>
<td></td>
</tr>
<tr>
<td>Cancel membership</td>
<td>Check all linked or non-linked graphics. Check the result.</td>
<td>Pass</td>
</tr>
<tr>
<td>--------------------</td>
<td>------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Administrator Login</td>
<td>Check all linked or non-linked graphics. Check all fields. Check the result. Check all hyperlinks. Check all buttons.</td>
<td>Pass</td>
</tr>
<tr>
<td>Manage Members</td>
<td>Check all linked or non-linked graphics. Check all hyperlinks.</td>
<td>Pass</td>
</tr>
<tr>
<td>View All Members</td>
<td>Check all linked or non-linked graphics. Check the result.</td>
<td>Pass</td>
</tr>
<tr>
<td>Manage Used Car Information</td>
<td>Check all linked or non-linked graphics. Check all hyperlinks.</td>
<td>Pass</td>
</tr>
<tr>
<td>Create Used Car Information</td>
<td>Check all linked or non-linked graphics. Check all fields. Check the result. Check all buttons.</td>
<td>Pass</td>
</tr>
<tr>
<td>Task</td>
<td>Check all linked or non-linked graphics.</td>
<td>Check all fields.</td>
</tr>
<tr>
<td>---------------------</td>
<td>----------------------------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Update Used Car</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information</td>
<td></td>
<td></td>
</tr>
<tr>
<td>View All Used Cars</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Delete Used Car</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manage Equipment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Register Equipment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Change Equipment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Function</td>
<td>Description</td>
<td>Outcome</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>Check all fields</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check the result</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check all buttons</td>
<td></td>
<td></td>
</tr>
<tr>
<td>View all Equipment</td>
<td>Check all linked or non-linked graphics. Check the result.</td>
<td>Pass</td>
</tr>
<tr>
<td>Delete Equipment</td>
<td>Check all linked or non-linked graphics. Check all fields. Check all buttons.</td>
<td>Pass</td>
</tr>
<tr>
<td>Manage Equipment Price</td>
<td>Check all linked or non-linked graphics. Check all hyperlinks.</td>
<td>Pass</td>
</tr>
<tr>
<td>Input Equipment Price</td>
<td>Check all linked or non-linked graphics. Check all fields. Check the result.</td>
<td>Pass</td>
</tr>
<tr>
<td>Update Equipment Price</td>
<td>Check all linked or non-linked graphics. Check all fields. Check the result.</td>
<td>Pass</td>
</tr>
<tr>
<td>Function</td>
<td>Instructions</td>
<td>Result</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>------------------------------------------------------------------------------</td>
<td>--------</td>
</tr>
<tr>
<td>View All Relative Equipment Numbers</td>
<td>Check all buttons. Check all linked or non-linked graphics. Check the result.</td>
<td>Pass</td>
</tr>
<tr>
<td>View All Equipment prices</td>
<td>Check all linked or non-linked graphics. Check the result.</td>
<td>Pass</td>
</tr>
<tr>
<td>Delete Equipment Price</td>
<td>Check all linked or non-linked graphics. Check all fields. Check the result.</td>
<td>Pass</td>
</tr>
<tr>
<td>Manage Mileage Adjustment</td>
<td>Check all linked or non-linked graphics. Check all hyperlinks.</td>
<td>Pass</td>
</tr>
<tr>
<td>Input Mileage Adjustment Data</td>
<td>Check all linked or non-linked graphics. Check all fields. Check the result.</td>
<td>Pass</td>
</tr>
<tr>
<td>Update Mileage Adjustment Data</td>
<td>Check all linked or non-linked graphics. Check all fields.</td>
<td>Pass</td>
</tr>
<tr>
<td>Feature</td>
<td>Checks</td>
<td>Result</td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>------------------------------------------------------------------------</td>
<td>--------</td>
</tr>
<tr>
<td>View Mileage Adjustment Tables</td>
<td>Check all linked or non-linked graphics.</td>
<td>Pass</td>
</tr>
<tr>
<td></td>
<td>Check all fields.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check the result.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check all buttons.</td>
<td></td>
</tr>
<tr>
<td>Delete Mileage Adjustment Data</td>
<td>Check all linked or non-linked graphics.</td>
<td>Pass</td>
</tr>
<tr>
<td></td>
<td>Check all fields.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check the result.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check all buttons.</td>
<td></td>
</tr>
<tr>
<td>Search</td>
<td>Check all linked or non-linked graphics.</td>
<td>Pass</td>
</tr>
<tr>
<td></td>
<td>Check all hyperlinks</td>
<td></td>
</tr>
<tr>
<td>Search for Members</td>
<td>Check all linked or non-linked graphics.</td>
<td>Pass</td>
</tr>
<tr>
<td></td>
<td>Check all fields.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check the result.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check all buttons.</td>
<td></td>
</tr>
<tr>
<td>Search for Used Cars</td>
<td>Check all linked or non-linked graphics.</td>
<td>Pass</td>
</tr>
<tr>
<td></td>
<td>Check all fields.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check the result.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check all buttons.</td>
<td></td>
</tr>
</tbody>
</table>
3.3 Integration Test Plan

The integration test concentrates at the verification effort of the links between Palm OS devises and server. The result can be shown as the following table:

Table 6. Integration Test Plan

<table>
<thead>
<tr>
<th>Requests</th>
<th>User Input</th>
<th>Desired Output</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Login</td>
<td>Type in the number for password.</td>
<td>Display the valid Password or invalid Password.</td>
<td>Pass</td>
</tr>
<tr>
<td>Equipment</td>
<td>Click on button to send a request.</td>
<td>Display the text which contains Equipment.</td>
<td>Pass</td>
</tr>
<tr>
<td>Price</td>
<td>Input the number for mileage.</td>
<td>Display the final price.</td>
<td>Pass</td>
</tr>
<tr>
<td></td>
<td>Select equipment for equipment adjustment.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select price for price adjustment.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
3.4 System Test Plan

After MOBILE USED CAR PRICES AND INFORMATION is completed tested, and meets all functional and performance requirements, the system test focuses on acceptance and usability. The result can be shown as the following table:

Table 7. System Test Plan

<table>
<thead>
<tr>
<th>Unit Tested</th>
<th>Test Performed</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Palm OS Emulator</td>
<td>Check the wireless settings.</td>
<td>Pass</td>
</tr>
<tr>
<td></td>
<td>Check the memory size.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check ROM images.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check the IP settings of the Palm proxy server.</td>
<td></td>
</tr>
<tr>
<td>MySQL Database</td>
<td>Check the DB user name and password.</td>
<td>Pass</td>
</tr>
<tr>
<td></td>
<td>Check if the DB system is still alive.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check the connection between the Apache HTTP server, PHP, PHPMyAdmin and MySQL.</td>
<td></td>
</tr>
</tbody>
</table>
3.5 Summary

All these three test plans help to monitor and improve MOBILE USED CAR PRICES AND INFORMATION. During the software development process these test plans make sure that all problems have been fixed. These test plans also verify the performance of functions and keep the quality well. The software quality assurance in this system can not be done without these three test plans.
CHAPTER FOUR
MAINTENANCE

4.1 Introduction

The maintenance for MOBILE USED CAR PRICES AND INFORMATION is based on the current environment. The maintenance needs to monitor both the Palm OS devices and the server on the desktop.

4.2 Palm Handheld Devices

Because wireless technology is still new for Palm OS the technology could be improved very fast. So this project will be updateable in the future. In the current level of maintenance the programmer must keep the source code clear and always put some comments to explain the condition. Because used car industry is updated very frequently and the information for this system needs to be updated very often. So the software on the Palm OS device will be updateable in a short time and the programmer must update the information for users. This means when the used car market is updated this system will need to be updated too. The maintenance for this system needs to keep tracking on the used car market and provide the reliable information for customers.
4.3 Server

The maintenance for server is to provide a correct source for Palm OS users and this means not only the software on Palm OS devices but also the server on the desktop need to be updated very frequently. If one of these two can not work correctly the other won’t be able to work correctly too. The programmer will have to update the new prices and information in the database.

4.4 Summary

The maintenance for this system will be continued because there will be always some new cars every single year. The most important thing to maintain this system is to keep looking at the used car market and update this system.
CHAPTER FIVE

USERS MANUAL

5.1 Introduction

This manual provides information about MOBILE USED CAR PRICES AND INFORMATION system and it is written for any users who are interested in Palm OS. If you do not own one of the wireless Palm OS devices or simply want to evaluate this technology, an application called Palm OS Emulator (POSE) simulates the function of a real Palm OS device.

5.2 Obtain the Software

The POSE is available for Microsoft Windows 95/98/Me/NT/2000, apple Macintosh, and various flavors of UNIX. The emulator is available at www.palm.com/dev/tech/tools/emulator and requires a ROM image. After downloading and unpacking the POSE archive, you will notice that POSE does not contain ROM image files. The ROM image files are copies of the Palm OS that permanently reside on a device. ROM image files can be obtained by transferring the ROM image from an actual device or by joining the Palm alliance Program and downloading ROM images from the Palm OS web site. You need to download the Web Clipping ROM image because this project was implemented by Web clipping technology. Then you need to configure the
settings before you start a Web Clipping application. Figure 10 shows the main screen of POSE.

![Figure 10. POSE Main Screen]

You also need to download the Web Clipping Application Builder (WCA Builder) and it’s necessary for a Web clipping developer. To build a Web clipping application (WCA), Palm, Inc. provided a utility called WCA Builder. The WCA builder parses and compresses static HTML and graphics into a format readable by Clipper, Palm Inc.’s limited web browser. This format is called Palm Query Application (PQA). If you already have written the source code, you need to use WCA
Builder and select the right setting options in the Build PQA Dialog Box. When you build the WCA, the original HTML file has been saving to a new PQA file. In this project, this PQA file is Used Car.pqa and it's ready for installing on the POSE.

5.3 Installing Web Clipping Applications

Web clipping application can be added to an actual Palm OS device by using the Install tool application on a desktop computer and performing a HotSync operation with the device. After the HotSync operation is complete, you can find an icon on the screen of Palm OS device. In this project, you will see an icon called Used Car in the Application Launcher of Palm OS device.

There are two different methods to install a Web clipping application on POSE. The Palm OS Emulator supports drag-and-drop operations. Simply drag and drop the file onto the Palm OS Emulator window. This is the easier way to install a WCA on POSE. The second method is to right-click the emulator application and you will see a pop-up menu which contains the operations. From the pop-up menu, select the Install Application/Database menu option select Other, and select the Used Car.pqa file from the browser. Then no matter which method you choose you will see a new icon on
the screen of POSE called Used Car. Now you have successfully installed Used Car WCA onto the Palm OS Emulator and this figure is shown as following:

![Used Car Icon]

Figure 14. Used Car Icon

5.4 Graphical User Interface

The GUIs for this system are separated to two parts. For clients you will see the GUIs on the POSE and I will describe them in the section one. For server you will see the GUIs on the desktop of a PC and I will show them in the section two.
5.4.1 Clients Side

This section only shows one used car for users because it’s the same logic and it’s not necessary to repeat the same thing. The used car that I will show below is year 2002, Honda, Civic, EX, two doors and automatic. I will describe these GUIs and show them with figures.

5.4.1.1 Main. After you launch the icon Used Car and you will see the first page of MOBILE USED CAR PRICES AND INFORMATION. From here you can decide to enter this system. The figure is shown as following:

![Figure 15. Main](image-url)
5.4.1.2 Login. In this page, you need to verify your identification.

Figure 16. Login
5.4.1.2.1 Input Password. To verify your membership you will have to input a password. You will see a field called unassigned and you click on it. Then a window will pop out and you can input your password now. This figure is shown as following:

![Palm OS™ Emulator]

Figure 17. Input Password
5.4.1.2.2 Assigned Password. After you click on ok button, you will see "assigned". Then you just need to click on the Submit button and this figure is shown as following:

![Assigned Password](image)

*Figure 18. Assigned Password*
5.4.1.3 Verification. There are two different results after you submit your password.

5.4.1.3.1 Valid Password. This page shows the valid password and you can see the Continue button. When you click on it, you will go to the category page. This figure is shown as following:

![Valid Password Image](image-url)

Figure 19. Valid Password
5.4.1.3.2 Invalid Password. When your password is invalid, you can go back to Login page by clicking on the Back button. This figure is shown as following:

![Invalid Password](image)

Figure 20. Invalid Password
5.4.1.4 Category. In this page, you need to choose one of these four categories which are cars, luxury, vans and trucks and we are going to choose the car category. On the upside of this page is an image which contains the title of this project and when you click on it, it will link back to the first page, Used Car. Later you will see more images on the top and all of them can link to its own page. The figure is shown as following:
5.4.1.5 Make. In this category, you will see only four makes because there are too many cars in the market and this project only implemented some cars. Now you pick the make, Honda. The figure is shown as following:

Figure 22. Make
5.4.1.6 Model. In this page, you can see another image contains the word "Honda" and this shows which make we have chosen. Now you choose civic and the figure is shown as following:

![Palm OS™ Emulator](image)

Figure 23. Model
5.4.1.7 Year. You will see another image which contains a word "Civic" and it shows which make you have chosen. Now you can pick 2002 and it is shown as following:

Figure 24. Year
5.4.1.8 Type. You will see another image which contains a word "2002" and it shows which year you have chosen. Now you click on Ex 2D and the figure is shown as following:

![Palm OS Emulator]

Figure 25. Type
5.4.1.9 Transmission. You will see another image which contains a word “EX 2D” and it shows which type you have chosen. Now you click on Automatic and the figure is shown as following:

Figure 26. Transmission
5.4.1.10 Option. You will see another image which contains a word "Automatic" and it shows which transmission you have chosen. Now you can click on one of these options and first we can take a look at the picture of this car. Now you click on picture and the figure is shown as following:

Figure 27. Option
5.4.1.11 Picture. This page contains the picture of this used car that you have been chosen and you go back to the Option page by clicking on the arrow on the top of this screen. The figure is shown as following:

Figure 28. Picture
5.4.1.12 Equipment. When you click on Equipment from Option page you will send a request to the remote sever side and the server side will send a page which will contain the equipment of this used car. Then you can go back to Option page by clicking on the arrow on the top of this screen. The figure is shown as following:

![Palm OS Emulator](http://207.9...4 ▼ History]

**Category:** Cars
**Make:** Honda
**Model:** Civic
**Year:** 2002
**Type:** EX coupe 2D
**Transmision:** Automatic
**Engine:** 4-Cyl. 1.7L VTEC
**Drive:** Front Wheel Drive
**Equipment:** Air Conditioning, Power Steering, Power Windows, Power Door Locks, Tilt Wheel, Cruise Control, AM/FM Stereo, Single Compact Disc, Dual Front Air Bags, ABS

Figure 29. Equipment

5.4.1.13 Adjustment. There are there parts in this page and they are mileage adjustment, equipment adjustment and trade-in or retail price.
5.4.1.13.1 Mileage Adjustment. You need to input an integer number to determine how many miles you expect for this used car. At beginning, it will set to a default mileage number which is an accepted mileage as demonstrated by market research. When you input a different number in this field it may give you a different price. I will leave 15000 as the default and move to the next section, equipment adjustment. This figure is shown as following:

![Palm OS Emulator screenshot](image)

Figure 30. Mileage Adjustment
5.4.1.13.2 Equipment Adjustment. In this section, you will see exactly 23 checkbox-type tags and each presents one kind of equipment. As default, you can see some checkbox-type tags have been checked because these are the standard equipment which originally comes with the model. However, some cars have been modified and these modifications may result in different prices. Each modification has its own price and this price will be added or deducted from the base value, depending on equipment adjustment. In this page, I leave these checkbox-type tags as default and this figure is show as following:

![Image of Palm OS Emulator showing equipment adjustment settings](image)

Figure 31. Equipment Adjustment
5.4.1.13.3 Trade-in Price or Retail Price. There are two checkbox-type tags which are Wholesale Price and Retail Price. Wholesale Price, the price a seller should expect to receive from a dealer in a sale or trade. Retail Price, the maximum price a buy should expect to pay a dealer. You can pick one of them to see the price. In this figure, I select the Retail Price. Then you need to click on Submit button and Reset button will set everything as default. When you submit this form it will immediately send to the remote server side. This figure is shown as following:

Figure 32. Trade-in Price or Retail Price
5.4.1.14 Price. When the remote server side receives some variables, it will use them to calculate the price and send the result back to POSE. This page will contain one price and you can select both of Wholesale Price and Retail Price to see two prices at once. This figure is shown as following:

![Palm OS Emulator](image)

Figure 33. Price
5.4.2 Server Side

This server contains web pages and a database. It is designed for members who want to use this system on their Palm handheld devices. It is also designed for the administrator to manage both the members and the used car information. The administrator's job is very important in this system.

To be able to use this system, the user has to fill in the form from this server side and this information will be stored in database. Then this user will have the membership of MOBILE USED CAR PRICES AND INFORMATION and have his or her own password. This member can use his or her password to login this system after this user has registered into this database. Members can change their personal information or cancel their membership.

The administrator performs an important role in this system and also needs to verify his or her identification. So the administrator must login the name and password into the database. When the match is found in the database, then the administrator can enter the system to do his or her job. In this section, there are four subsections which are Main, New Member, Member and Administrator. I will explain them one by one.
5.4.2.1 Main. There are two pages in this section and both of them describe the idea of this system.

5.4.2.1.1 Home. This is the first page of MOBILE USED CAR PRICES AND INFORMATION and generally explains the purpose of this system. This page is shown as following:

![Image of the Home page]

Figure 34. Home
5.4.2.1.2 Introduction. There are more words about this system in this page. If you are a new user, then click on New Member. If you are already one member of this project, then click on Member. The third one is Administrator and it is not for all members. This page is shown as following:

![Screenshot of Mobile Used Car Prices & Information](image)

Figure 35. Introduction
5.4.2.2 New Member. To be able to use this system the new user must fill in the application and starts the membership.

5.4.2.2.1 Customer Information and Result. In this page you will see a form and this form contains eight fields. A new user must fill in all the fields and pick up a number for your own Password. This password will be the identification whenever you plan to use this software on the Palm OS devices. After you fill in the form you can see the result which can tell you the errors or if you don't have any error then you will be registered into the database. The important thing for password is to be unique and no two members have the same password.
Figure 36. New Member Form and Result
5.4.2.3 Member. When you become a member you can enter this page and the design for member is to download the software form this server.

5.4.2.3.1 Member Login and Result. Member Login contains a password field and you just have to type your own password. This result page will always be seen in this server because it will try to find a match in the database system. If you input the wrong password it sure replies the error message. Once you have input the correct password then you have five things to do here and there are five more subsections to explain them.
Figure 37. Member Login and Result
5.4.2.3.2 Obtain the Software. This page is designed for downloading the software for Palm OS devices or POSE. The member always can come back to obtain the newest version whenever the software has been updated to a new version.

![Figure 38. Obtain the Software](image_url)
5.4.2.3.3 View Your Information. Here you can view your personal information.

![Image of view your information page]

Figure 39. View Your Information
5.4.2.3.3 Change Your Information and Result. The second function for members and you can change everything including the password. The result shows the answer which can be valid or invalid. As I mentioned before no two members have exactly the same password. When the user tries to change the password if the password is already in the database the user needs to pick up another number for a new password. The result will tell you when you input a new number for the new password.
Figure 40. Change Your Information and Result
5.4.2.3.4 Search Used Cars and Result. This is the search function for members and they can search the used cars in the database.

![Search Used Cars and Result](image)

Figure 41. Search Used Cars and Result
5.4.2.3.5 Cancel Your Membership and Result. If you don’t want to be the member of this system any more, then you just have to use this function.

Figure 42. Cancel Your Membership and Result
5.4.2.4 Administrator. The most important part of this server is the job of administrator. The main thing for administrator is to manage the members and database. There are six functions and I will describe in the following subsections one by one.

5.4.2.4.1 Administrator Login and Result. For security reason the administrator must be identified carefully than a normal user. There are two fields which are user name and password to identify the administrator. Once the administrator has been proved there will be six options in this page.

Figure 43. Administrator Login and Result
5.4.2.4.2 Manage Members. The administrator has the right to monitor all members. There are two options in this page.

Figure 44. Manage Members
5.4.2.4.2.1 View All Members. In this page you can view all the members in the database.

Figure 45. View All Members
5.4.2.4.2.2 Cancel the Customer’s Membership and Result. Once the administrator wants to cancel the membership of someone this is the page to do it.

Figure 46. Cancel Membership and Result
5.4.2.4.3 Manage Used Car Information. You can see here are four options and it is all about the used car information. You can create a new data, update the data, view all data and of course delete the data.

Figure 47. Manage Used Car Information
5.4.2.4.3.1 Create Used Car Information and Result.

There are twelve fields in this form and when you have done with typing it will send this form to database. There is also no exactly the same data in the database. When you succeed to create a new data in the database for each used car there is one unique number to identify this car. This unique number is called the final equipment number for this system.
<table>
<thead>
<tr>
<th>Category</th>
<th>Cars</th>
</tr>
</thead>
<tbody>
<tr>
<td>Make</td>
<td>Honda</td>
</tr>
<tr>
<td>Model</td>
<td>Civic</td>
</tr>
<tr>
<td>Year</td>
<td>2002</td>
</tr>
<tr>
<td>Type</td>
<td>EX Coupe 2D</td>
</tr>
<tr>
<td>Transmission</td>
<td>Automatic</td>
</tr>
<tr>
<td>Engine</td>
<td>4-Cyl. 1.6L VTEC</td>
</tr>
<tr>
<td>Drive</td>
<td>Front Wheel Drive</td>
</tr>
<tr>
<td>Equipment</td>
<td>Air Conditioning, Power Steering, Power Windows, Power Door Locks, Tilt Wheel, Cruise Control, AM/FM Stereo, Compact Disc, Dual Front Air Bags, Moon Roof</td>
</tr>
<tr>
<td>Wholesale Price</td>
<td>$12450</td>
</tr>
<tr>
<td>Retail Price</td>
<td>$14750</td>
</tr>
<tr>
<td>Mileage</td>
<td>15000</td>
</tr>
</tbody>
</table>

This car has been created as following:

**Info_number**: 31  
**Category**: Cars  
**Make**: Honda  
**Model**: Civic  
**Year**: 2002  
**Type**: EX Coupe 2D  
**Transmission**: Automatic  
**Engine**: 4-Cyl. 1.6L VTEC  
**Drive**: Front Wheel Drive  
**Equipment**: Air Conditioning, Power Steering, Power Windows, Power Door Locks, Tilt Wheel, Cruise Control, AM/FM Stereo, Compact Disc, Dual Front Air Bags, Moon Roof  
**Wholesale**: $12450  
**Retail**: $14750  
**Mileage**: 15000

Figure 48. Create Used Car Information and Result
5.4.2.4.3.2 Update Used Car Information and Result. As I mentioned above, you need to enter the information number to specify which car you want to update. There still will be twelve fields for used car information and the administrator can change any of them in the database. In this case I only change the transmission from Automatic to 5-Speed Manual. Then the result is showing as the following figure.
Figure 49. Update Used Car Information and Result
5.4.2.4.3.3 View All Used Cars. This function is provided for checking all the used car information in the database.

![View All Used Cars](image)

Figure 50. View All Used Cars
5.4.2.4.3.4 Delete Used Car Information and Result.

When some used cars are no longer needed for this system this function can remove the data from the database. To do this the administrator needs to know what the information number is for that particular used car. Then the administrator simply input this number into the field and click on the submit button. Then the result will show the information for that particular used car which has been removed from the database. In this case I input the number 31 and the result is shown as the following figure.
This car as below has been deleted:

- **Info_number**: 31
- **Category**: Cars
- **Make**: Honda
- **Model**: Civic
- **Year**: 2002
- **Type**: EX Coupe 2D
- **Transmission**: 5-Speed Manual
- **Engine**: 4-Cyl. 1.6L VTEC
- **Drive**: Front Wheel Drive
- **Equipment**: Air Conditioning, Power Steering, Power Windows, Power Door Locks, Tilt Wheel, Cruise Control, AM/FM Stereo, Compact Disc, Dual Front Air Bags, Moon Roof
- **Wholesale**: 12450
- **Retail**: 14750
- **Mileage**: 15000

Figure 51. Delete Used Car Information and Result
5.4.2.4 Manage Equipment. The equipment affects the value of a used car and each of them has its own market price. Therefore the administrator needs to have Register, Change, View and Delete functions.

Figure 52. Manage Equipment
5.4.2.4.4.1 Register Equipment and Result. Simply input the name of that equipment to register it and it also will have a unique number for each of them. In this case I type in Integrated Phone into the field and this equipment will be created in the database. Then you click on submit button to send this information to the database. The result is shown as the following figure.
Figure 53. Register Equipment and Result
5.4.2.4.4.2 Change Equipment and Result. As I mentioned before it always needs to input the identification number to find the data and then you can change the data. In this case I want to change the equipment number 30 which is Integrated Phone. Then I type in the number 30 to the first field and the new equipment name is T-Bar Roof. Then you click on the Submit button to send the information into the database. The result is shown as the following figure.
Figure 54. Change Equipment and Result
5.4.2.4.4.3 View All Equipment. The whole equipment will be shown here.

Figure 55. View All Equipment

5.4.2.4.4.4 Delete Equipment and Result. Remove the equipment form the database.
Figure 56. Delete Equipment and Result
5.4.2.4.5 Manage Equipment Price. To manage the equipment prices is more complicated because there are three tables about the equipment price in the database. There are five options in this page.

Figure 57. Manage Equipment Price
5.4.2.4.5.1 Input Equipment Price and Result. According to the information I got from Kelly blue book the equipment value is determined by two factors which are year and schedule. So the administrator needs to input four fields to add a new value for specified equipment. But in the database when you input those information it will generate a special number called final equipment number to identify the specified equipment and schedule number. Final equipment is also a unique number.
Figure 58. Input Equipment Price and Result
5.4.2.4.5.2 Update Equipment Price and Result. To identify specified equipment price the administrator needs to know what’s the year and final equipment number. Then input the price you want to update. In this case I have to input the year and final equipment number to find a match in the database. Then I need to input the new price and click on the Submit button to send the new information to the database. The result is shown as the following figure.
Figure 59. Update Equipment Price and Result
5.4.2.4.5.3 View All Relative Equipment Numbers. All relative equipment numbers means equipment number, schedule number and final equipment number.

Figure 60. View All Relative Equipment Numbers
5.4.2.4.5.4 View All Equipment Prices. The table in this page shows all equipment prices.

![Mobile Used Car Prices & Information](image)

**Figure 61. View All Equipment Prices**

5.4.2.4.5.5 Delete the Equipment Price and Result. When the administrator needs to delete the equipment price these two fields have to fill in with information which identifies that specified equipment price.
Figure 62. Delete Equipment Price and Result
5.4.2.4.6 Manage Mileage Adjustment. The number of mileage also has the effect to the value of a used car. According to the VMR standard auto guides there are three tables for different levels of vehicles. There are six options in this page.

![Manage Mileage Adjustment](image)

Figure 63. Manage Mileage Adjustment
5.4.2.4.6.1 Input Mileage Adjustment Data and Result.

In this page the administrator needs to pick up which table to type in the information and it can be more than just one table. In this case I choose table one and table three to input the data. Then I need to type in the mileage, year and value foe both table one and table two. Then click on the Submit button to send these data to the database. The result is shown as the following figure.
Figure 64. Input Adjustment Data and Result
5.4.2.4.6.2 Update Mileage Adjustment Values and Result. To update the value the administrator needs to input mileage and year. In this case I choose table one and table two to change the information. First I need to input the mileage and year to find a match in the database. Then I input the new value. The result is shown as the following figure.
### Table one (Wholesale value under $12,500)

<table>
<thead>
<tr>
<th>Mileage: 15000</th>
<th>To find the mileage in this table.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year: 2001</td>
<td>To find the year in this table.</td>
</tr>
<tr>
<td>Change the value:</td>
<td>Value: 100</td>
</tr>
</tbody>
</table>

### Table two (Wholesale value between $12,500 and $25,500)

<table>
<thead>
<tr>
<th>Mileage: 15000</th>
<th>To find the mileage in this table.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year: 2001</td>
<td>To find the mileage in this table.</td>
</tr>
<tr>
<td>Change the value:</td>
<td>Value: 200</td>
</tr>
</tbody>
</table>

### Table three (Wholesale value over $25,500)

<table>
<thead>
<tr>
<th>Mileage: 15000</th>
<th>To find the mileage in this table.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year: 2001</td>
<td>To find the mileage in this table.</td>
</tr>
<tr>
<td>Change the value:</td>
<td>Value: 200</td>
</tr>
</tbody>
</table>

---

**Mobile Used Car Prices & Information**

Mobile Used Car Prices & Information

Wholesale price & retail price

The value is changed as following:

Table one:

- Mileage: 15000
- Year: 2001
- Price: 100

The value is changed as following:

Table three:

- Mileage: 15000
- Year: 2001
- Price: 200

---

Figure 65. Update Adjustment Values and Result
5.4.2.4.6.3 View Mileage Adjustment Tables. Choose and View these tables.

![Figure 66. View Mileage Adjustment Tables](image)

5.4.2.4.6.4 Delete Mileage Adjustment Data and Result. The administrator still has to follow the correct way to delete the data and in this case mileage and year are required.
Choose which mileage adjustment table:

**Table one (Wholesale value under $12,500)**

Mileage: 15000  To find the mileage in this table
Year: 2001  To find the year in this table

**Table two (Wholesale value between $12,500 and $25,500)**

Mileage:  To find the mileage in this table
Year: 2001  To find the year in this table

**Table three (Wholesale value over $25,500)**

Mileage: 15000  To find the mileage in this table
Year: 2001  To find the year in this table

This data has been removed as following:

**Table one:**

Mileage: 15000
Year: 2001
Price: 100

**Table three:**

Mileage: 15000
Year: 2001
Price: 200

Figure 67. Delete Adjustment Data and Result
5.4.2.4.7 Search. This sixth function is to search the database and tries to find one or more matches in the database. The administrator can search for members and used cars.

![Search](image)

**Figure 68. Search**

5.4.2.4.7.1 Search for Members and Result. In this page there are two fields. The first field is a select box and you can pick up one of them. The second field is for inputting data.
Figure 69. Search for Members and Result
5.4.2.4.7.2 Search for Used Cars and Result. In this page there are two fields. The first field is a select box and you can pick up one of them. The second field is for inputting data. In this case I choose Make as the first field and input the Honda as the second field. Then I click on the Submit button to send the information. The result is shown as the following figure.
Figure 70. Search for Used Cars and Result
5.5 Summary

This manual provides a quick way to use this system and helps people to understand immediately after they read. This manual also has specified the requirements of this software and how to install the WCA onto Palm Os devices or POSE. For both clients and server side these figures are shown and a detailed explanation is provided for each single figure.
CHAPTER SIX
CONCLUSIONS

6.1 Introduction
MOBILE USED CAR PRICES AND INFORMATION applies the newest wireless technology to create a communication between Palm OS devices and a personal computer. For Palm OS devices this system gives these users a chance to check used car prices and information. For a personal computer this system provides the functional, manageable and comprehensive web server. Because of this newest wireless technology it makes the wireless communication possible. This technology gives Palm OS developer a better way to solve the limitations of Palm OS devices.

6.2 Conclusions
The conclusions extracted from the project follows.
1. Web Clipping, Palm OS wireless technology, has been successfully applied in this project and it is proved to be a better solution for web application on Palm OS devices. The limitations which are the small screen size and limited memory cause the difference between Web Clipping application and Web Application. Because of the
limitations of Palm OS devices Web browsers on these devices work differently from browsers on the desktop. So Web Clipping needs to discard some HTML skills to look properly on Palm OS devices. I regard the limitations and try to design a proper implementation on the Palm OS devices. As the result of this implementation it shows that Web Clipping Application is the fast, effective and achievable way for wireless communication on Palm OS devices.

2. For sever on the desktop, the combination of Apache HTTP server, PHP, PHPMyAdmin and MySQL database becomes the very powerful and useful technologies for this system. Another reason for using this combination is the PHP support form Web Clipping browser. There is no problem to send any data from Palm OS devices or receive the data from the web server. PHP is a remarkable script language and MySQL is also a remarkable database. This database stores the required data for MOBILE USED CAR PRICES AND INFORMATION and PHPMyAdmin is a very convenient tool for building the database tables. All these useful tools help to develop this system more effectively. Then the
communication between Palm OS devices and this server is fast and effective than I expected. This result is proved to be the good design for my server.

6.3 Summary

MOBILE USED CAR PRICES AND INFORMATION provides an effective way to access the information in anytime and anywhere. MOBILE USED CAR PRICES AND INFORMATION allows different users to interact with database in real-time.

MOBILE USED CAR PRICES AND INFORMATION provides the Palm OS users a way to know about the used car prices and information from their Palm OS devices. Wireless communication has been proved positively in the result of this implementation. Because of the limitations of Palm OS devices and the support of technologies there still have a lot of troubles to encounter when dealing with a complicated project. This project will depend on the improvement of these limitations and hope Palm, Inc. will have a better solution for wireless communication. All these improvement will be used to improve the current implementation of this system and will help to develop a better Web Application. For the future developments, this project will be able to integrate the system with different devices such as cellular
phones, pocket PC devices and so on. This project can add more features to the client side like the clients can apply the membership from the Palm OS device and this means a new user can apply for his membership from both the Palm OS device and web browser.
APPENDIX A

SOURCE CODE

Web clipping application (WCA):

/***********************************************************/

File name: main.html

/***********************************************************/

<html>
<head>
<title>index page</title>

<meta name="palmcomputingplatform" content="true">
<meta name="LocalIcon" content="titleImage.jpg">
<meta name="LocalIcon" content="2002_corvette.jpg">
</head>

<body bgcolor="#FFFFFF">
<p align=center><img src="images/titleImage.jpg"></p>
<p align=center><font size=3 color="#0000ff" face="Times New Roman">wholesale price & retail price</font><br>
<br></p>
<p align=center><img src="images/2002_corvette.jpg" width="112" height="74"></p>

<p align=center><a href="login.html" button>enter</a></p>
<br></p>
</body>
</html>
/* File name: login.html */

<html>
<head>
  <title>Login page</title>
  <meta name="palmcomputingplatform" content="true">
  <meta name="LocalIcon" content="titleImage.jpg">
  <meta name="LocalIcon" content="2002_corvette.jpg">
</head>
<body bgcolor="#FFFFFF">
  <a href="main.html"><img src="images/titleImage.jpg"></a>
  <h1 align=center><font color=#0000ff>Login</font></h1>
  <p align=center><font size=4 color=#0000ff>Please Verify Your Membership:</font></p>
  <form method="GET" action="http://139.182.137.32:8080/phpMyAdmin/code/login.php">
    <input type="password" name="mypw" size="6" maxlength="12">
    <input type="submit" value="Submit">
    <input type="reset" value="Reset">
  </form>
</body>
</html>
File name: login.php

```php
<?
$password = $_GET['mypw'];
mysql_connect("localhost","root","007164");
mysql_select_db("used_car");
$sql = "SELECT Password FROM customer_information"
$pw = mysql_query($sql);

$check = "0";

if(!$pw) echo ("<font size=3><b>No Password!</b></font>");
else {
    while($id = mysql_fetch_row($pw)) {
        if($id[0] === $password) {
            $check = "1";
            break;
        }
    }
}

if($check === "1") {
    echo ("<center><h2>Valid Password!</h2></center>
    echo '<a href="file:Used Car.pqa/category.html" button>Continue</a>';
} else {
    echo ("<center><h2>Invalid Password!</h2></center>
    echo '<a href="file:Used Car.pqa/login.html" button>Back</a>';
}
?>
</body></html>
```
File name: category.html

<html>
<head>
<title>category page</title>
<meta name="palmcomputingplatform" content="true">
<meta name="LocalIcon" content="titleImage.jpg">
</head>
<body bgcolor="#FFFFFF">
<br>
<p align=center><a href="main.html"><img src="images/titleImage.jpg"></a></p>
<br>
<h3 align=center color=#0000ff>Select a category:</h3>
<br>
<p align=center><a href="cars.html" button>&nbsp;&nbsp;&nbsp;Cars&nbsp;</a></p>
<br>
<p align=center><a href="luxury.html" button>&nbsp;&nbsp;&nbsp;Luxury&nbsp;</a></p>
<br>
<p align=center><a href="vans.html" button>&nbsp;&nbsp;&nbsp;Vans&nbsp;</a></p>
<br>
<p align=center><a href="trucks.html" button>&nbsp;&nbsp;&nbsp;Trucks&nbsp;</a></p>

</body>
</html>
File name: cars.html

<html>
<head>
  <title>cars page</title>
  <meta name="palmcomputingplatform" content="true">
  <meta name="LocalIcon" content="titleImage.jpg">
</head>
<body bgcolor="#FFFFFF">
<p align="center"><a href="main.html"><img src="images/titleImage.jpg"></a></p>
<h3 align="center" color="#0000ff">Select a make:</h3>
<p align="center"><a href="honda-cars.html"&nbsp;Honda&nbsp;&nbsp;</a></p>
<p align="center"><a href="toyota-cars.html"&nbsp;Toyota&nbsp;&nbsp;</a></p>
<p align="center"><a href="ford-cars.html"&nbsp;Ford&nbsp;&nbsp;</a></p>
<p align="center"><a href="bmw-cars.html"&nbsp;BMW&nbsp;&nbsp;</a></p>
</body>
</html>
File name: honda-cars.html

<html>
<head>
  <title>honda page</title>
  <meta name="palmcomputingplatform" content="true">
  <meta name="LocalIcon" content="titleImage.jpg">
  <meta name="LocalIcon" content="hondaImage.jpg">
</head>
<body bgcolor="#FFFFFF">
<p align=center><a href="main.html"><img src="images/titleImage.jpg"></a></p>
<p align=center><a href="honda-cars.html"><img src="images/hondaImage.jpg"></a></p>
<h3 align=center color=#0000ff>Select a model:</h3>
<p align=center><a href="civic-cars.html" button>&nbsp;Civic&nbsp;</a></p>
<p align=center><a href="accord-cars.html" button>&nbsp;Accord&nbsp;</a></p>
<p align=center><a href="prelude-cars.html" button>&nbsp;Prelude&nbsp;</a></p>
<p align=center><a href="s2000-cars.html" button>&nbsp;S2000&nbsp;</a></p>
</body>
</html>
File name: civic-cars.html

<html>
<head>
  <title>civic page</title>
  <meta name="palmcomputingplatform" content="true">
  <meta name="LocalIcon" content="titleImage.jpg">
  <meta name="LocalIcon" content="hondaImage.jpg">
  <meta name="LocalIcon" content="civicImage.jpg">
</head>
<body bgcolor="#FFFFFF">
<p align=center><a href="main.html"><img src="images/titleImage.jpg"></a></p>
<p align=center><a href="honda-cars.html"><img src="images/hondaImage.jpg"></a></p>
<p align=center><a href="civic-cars.html"><img src="images/civicImage.jpg"></a></p>
<h3 align=center color=#0000ff>Select a year:</h3>
<p align=center><a href="civic2002-cars.html" button>&nbsp;2002</a></p>
<p align=center><a href="civic2001-cars.html" button>&nbsp;2001</a></p>
<p align=center><a href="civic2000-cars.html" button>&nbsp;2000</a></p>
<p align=center><a href="civic1999-cars.html" button>&nbsp;1999</a></p>
</body>
</html>
File name: civic2002ex2d-cars.html

--------------------*

<html>
<head>
<title>civic2002ex2d page</title>
<meta name="palmcomputingplatform" content="true">
<meta name="LocalIcon" content="titleImage.jpg">
<meta name="LocalIcon" content="hondaImage.jpg">
<meta name="LocalIcon" content="civicImage.jpg">
<meta name="LocalIcon" content="2002Image.jpg">
<meta name="LocalIcon" content="ex2dImage.jpg">
</head>
<body bgcolor="#FFFFFF">
<br>
<p align=center><a href="main.html"><img src="images/titleImage.jpg"></a></p>
<br>
<p align=center><a href="honda-cars.html"><img src="images/hondaImage.jpg"></a><br>
<a href="civic-cars.html"><img src="images/civicImage.jpg"></a></p>
<br>
<p align=center><a href="civic2002-cars.html"><img src="images/2002Image.jpg"></a><br>
<a href="civic2002ex2d-cars.html"><img src="images/ex2dImage.jpg"></a></p>
<br>
<h3 align=center color="#0000ff">Select a transmission:</h3>
<br>
<p align=center><a href="civic2002ex2dA-cars.html" button>&nbspAutomatic</a></p>
<br>
<p align=center><a href="civic2002ex2d5M-cars.html" button>5-speed Manual</a></p>
<br>
</body>
</html>
/* File name: civic2002ex2dA-cars.html */

<html>
<head>
title>civic2002ex2d automatic page</title>
<meta name="palmcomputingplatform" content="true">
<meta name="LocalIcon" content="titleImage.jpg">
<meta name="LocalIcon" content="hondaImage.jpg">
<meta name="LocalIcon" content="civicImage.jpg">
<meta name="LocalIcon" content="2002Image.jpg">
<meta name="LocalIcon" content="ex2dImage.jpg">
<meta name="LocalIcon" content="automaticImage.jpg">
</head>
<body bgcolor="#FFFFFF">
<p align=center><a href="main.html"><img src="images/titleImage.jpg"></a></p>
<p align=center><a href="honda-cars.html"><img src="images/hondaImage.jpg"></a></p>
<p align=center><a href="civic-cars.html"><img src="images/civicImage.jpg"></a></p>
<p align=center><a href="civic2002-cars.html"><img src="images/2002Image.jpg"></a></p>
<p align=center><a href="civic2002ex2d-cars.html"><img src="images/ex2dImage.jpg"></a></p>
<p align=center><a href="civic2002ex2dA-cars.html"><img src="images/automaticImage.jpg"></a></p>
<h3 align=center color="#0000ff">Select an option:</h3>
<p align=center><a href="civic2002ex2dA-p-cars.html" button>&nbsp;Picture&nbsp;</a></p>
<p align=center><a href="civic2002ex2dA-p-cars.html" button>&nbsp;Equipment&nbsp;</a></p>
<p align=center><a href="civic2002ex2dM-cars.html" button>&nbsp;Price&nbsp;</a></p>
</body>
</html>
Please enter the mileage:

Equipment Adjustment:
- Power Steering
- Air Conditioning
- AM/FM Stereo
- Power Windows
<input type="checkbox" name="powerdoorlocks" value="20" checked>Power Door Locks<br>
<input type="checkbox" name="tiltwheel" value="21" checked>Tilt Wheel<br>
<input type="checkbox" name="cruisecontrol" value="22" checked>Cruise Control<br>
<input type="checkbox" name="powerseat" value="1">Power Seat<br>
<input type="checkbox" name="dualpowerseat" value="2">Dual Power Seat<br>
<input type="checkbox" name="abs4wheel" value="3" checked>ABS (4 Wheel)<br>
<input type="checkbox" name="cdsingedisc" value="4" checked>CD (Single Disc)<br>
<input type="checkbox" name="cdmultidisc" value="5">CD (Multi Disc)<br>
<input type="checkbox" name="premiumsound" value="6">Premium Sound<br>
<input type="checkbox" name="leather" value="7">Leather<br>
<input type="checkbox" name="sunroofflipup" value="8">Sun Roof (Flip-up)<br>
<input type="checkbox" name="sunroofsliding" value="9">Sun Roof (Sliding)<br>
<input type="checkbox" name="moonroofsliding" value="10" checked>Moon Roof (Sliding)<br>
<input type="checkbox" name="rearspoiler" value="11">Rear Spoiler<br>
<input type="checkbox" name="alloywheels" value="12">Alloy Wheels<br>
<input type="checkbox" name="premiumwheels" value="13">Premium Wheels<br>
<input type="checkbox" name="roofrackwagon" value="14">Roof Rack (wagon)<br>
<input type="checkbox" name="thridseatwagon" value="15">Third Seat (wagon)<br>
<input type="checkbox" name="cassette" value="23">Cassette<br>
</p><br>
<h3 align=center color=#0000ff>Trade-in price or Retail price:</h3><br>
<p align=center>
<input type="checkbox" name="wholesale">Wholesale Price
<input type="checkbox" name="retail">Retail Price<br>
<input type="submit" value="Submit" />
<input type="reset" value="Reset" />
</form></p></body></html>
File name: civic2002ex2dA.php

```php
<html><body bgcolor="#FFFFFF">

<?
  mysql_connect("localhost","root","007164");
  mysql_select_db("used_car");

  $sql = "SELECT * FROM used_car_information
          WHERE Model = 'Civic' AND Year = 2002
          AND Type = 'EX 2D' AND Transmission = "Automatic"
          ";

  $rows = mysql_query($sql);

  if(!$rows) echo "<font size=3><b>No Data!</b></font>");
  else {
    while($row = mysql_fetch_row($rows)) {

      for($I= 1;$I<count($row);$I++) {
        if($I > 9) break;
        else {
          $temp = mysql_field_name($rows,$I);
          echo "<font size=3>$row[$I]</font>";}
      } }

?>
</body></html>
```
File name: civic2002ex2dA-M.php

<?php

mysql_connect("localhost", "root", "007164");
mysql_select_db("used_car");
$sql = "Select * From used_car_information
    WHERE Model = 'Civic' AND Year = 2002
        AND Type = 'EX 2D' AND Transmission = 'Automatic';"
$rows = mysql_query($sql);
$row = mysql_fetch_row($rows);
$year = $row[4];
$w = $row[10];
$r = $row[11];
$mileage = $row[12];
if($_GET["mileage"]){ $value = 0 + $_GET["mileage"]; } else {
    echo "<center><b><font size=3>
    You must input a number!</font></b></center>";
    return;
}

$w_price = $_GET["wholesale"];  
$r_price = $_GET["retail"];  
if(0 <= $value & $value <= 10000) $value = 10000;  
else if(10001 <= $value & $value <= 15000) $value = 15000;
else if(15001 <= $value && $value <= 22500) $value = 22500;
    else if(22501 <= $value && $value <= 30000) $value = 30000;
        else if(30001 <= $value && $value <= 37500) $value = 37500;
            else if(37501 <= $value && $value <= 45000) $value = 45000;
                else if(45001 <= $value && $value <= 52500) $value = 52500;
                    else if(52501 <= $value && $value <= 60000) $value = 60000;
                        else if(60001 <= $value && $value <= 67500) $value = 67500;
                            else if(67501 <= $value && $value <= 75000) $value = 75000;
                                else if(75001 <= $value && $value <= 82500) $value = 82500;
                                    else if(82501 <= $value && $value <= 90000) $value = 90000;
                                        else if(90001 <= $value && $value <= 105000) $value = 105000;
                                            else if(105001 <= $value && $value <= 120000) $value = 120000;
                                                else if(120001 <= $value && $value <= 135000) $value = 135000;
                                                    else if(135001 <= $value && $value <= 999999) $value = 999999;
                                                        else echo ("<center><font size = 5>Wrong mileage</font></center>");

if(0 <= $w && $w <= 12500) {
    $sql = "Select * From mileage_adjustment
WHERE Table = 1 AND Mileage = $value AND Year = $year";
} else if(12501 <= $w && $w <= 25000) {
    $sql = "Select * From mileage_adjustment
WHERE Table = 2 AND Mileage = $value AND Year = $year";
} else if(25001 <= $w) {
    $sql = "Select * From mileage_adjustment
WHERE Table = 3 AND Mileage = $value AND Year = $year;
}
else echo (
"<center><font size = 5>Wrong Data</font></center>"
);

$rows = mysql_query($sql);
$row = mysql_fetch_row($rows);
$m_adjustment = $row[2];
if($value <= $mileage) {
    $r = $r + $m_adjustment;
    $w = $w + $m_adjustment;
}
if($value > $mileage) {
    $r = $r - $m_adjustment;
    $w = $w - $m_adjustment;
}

$powersteering = $_GET["powersteering"];
$airconditioning = $_GET["airconditioning"];  
$amfmstereo = $_GET["amfmstereo"];  
$powerwindows = $_GET["powerwindows"];  
$powerrdoorlocks = $_GET["powerrdoorlocks"];  
$tiltwheel = $_GET["tiltwheel"];  
$cruisecontrol = $_GET["cruisecontrol"];  
$powerseat = $_GET["powerseat"];  
$dualpowerseat = $_GET["dualpowerseat"];  
$abs4wheel = $_GET["abs4wheel"];  
$cdsquaredisc = $_GET["cdsquaredisc"];  
$cdmultidisc = $_GET["cdmultidisc"];
$premiumsound = $_GET["premiumsound"];
$leather = $_GET["leather"];
$sunroofflipup = $_GET["sunroofflipup"];
$sunroofsliding = $_GET["sunroofsliding"];
$moonroofsliding = $_GET["moonroofsliding"];
$rearspoiler = $_GET["rearspoiler"];
$alloywheels = $_GET["alloywheels"];
$premiumwheels = $_GET["premiumwheels"];
$roofrackwagon = $_GET["roofrackwagon"];
$thridseatwagon = $_GET["thridseatwagon"];
$cassette = $_GET["cassette"];

$sql = "Select * From factory_equipment_cars
          WHERE Year = $year";
$rows = mysql_query($sql);
$row = mysql_fetch_row($rows); // 1
if($powerseat == $row[1]) {
    $r = $r + $row[2];
    $w = $w + $row[2];
}
$row = mysql_fetch_row($rows); //2
if($dualpowerseats == $row[1]) {
    $r = $r + $row[2];
    $w = $w + $row[2];
}
$row = mysql_fetch_row($rows); //3
if($abs4wheel != $row[1]) {
    $r = $r - $row[2];
    $w = $w - $row[2];
$row = mysql_fetch_row($rows); //4
if($cdsingedisc != $row[1]) {
    $r = $r - $row[2];
    $w = $w - $row[2];
}

$w = mysql_fetch_row($rows); //5
if($cdmultidisc == $row[1]) {
    $r = $r + $row[2];
    $w = $w + $row[2];
}

$row = mysql_fetch_row($rows); //6
if($premiumsound == $row[1]) {
    $r = $r + $row[2];
    $w = $w + $row[2];
}

$w = mysql_fetch_row($rows); //7
if($leather == $row[1]) {
    $r = $r + $row[2];
    $w = $w + $row[2];
}

$row = mysql_fetch_row($rows); //8
if($sunroofflipup == $row[1]) {
    $r = $r + $row[2];
    $w = $w + $row[2];
}

$row = mysql_fetch_row($rows); //9
if($sunroofslliding == $row[1]) {
    $r = $r + $row[2];
    $w = $w + $row[2];
}

$row = mysql_fetch_row($rows); //10
if($moonroofslliding != $row[1]) {

$r = \$r - \$row[2];
\$w = \$w - \$row[2];
}

$\text{row} = \text{mysql\_fetch\_row}($\text{rows}); //11

if($\text{rearspoiler} === \$\text{row}[1]) {
      \$r = \$r + \$\text{row}[2];
      \$w = \$w + \$\text{row}[2];
}

$\text{row} = \text{mysql\_fetch\_row}($\text{rows}); //12

if($\text{alloywheels} === \$\text{row}[1]) {
      \$r = \$r + \$\text{row}[2];
      \$w = \$w + \$\text{row}[2];
}

$\text{row} = \text{mysql\_fetch\_row}($\text{rows}); //13

if($\text{premiumwheels} === \$\text{row}[1]) {
      \$r = \$r + \$\text{row}[2];
      \$w = \$w + \$\text{row}[2];
}

$\text{row} = \text{mysql\_fetch\_row}($\text{rows}); //14

if($\text{roofrackwagon} === \$\text{row}[1]) {
      \$r = \$r + \$\text{row}[2];
      \$w = \$w + \$\text{row}[2];
}

$\text{row} = \text{mysql\_fetch\_row}($\text{rows}); //15

if($\text{thridseatwagon} === \$\text{row}[1]) {
      \$r = \$r + \$\text{row}[2];
      \$w = \$w + \$\text{row}[2];
}

$\text{row} = \text{mysql\_fetch\_row}($\text{rows}); //16

if($\text{powersteering} \neq \$\text{row}[1]) {
      \$r = \$r - \$\text{row}[2];
      \$w = \$w - \$\text{row}[2];
}
$row = mysql_fetch_row($rows); //17
if($aircondiioning != $row[1]) {
    $r = $r - $row[2];
    $w = $w - $row[2];
}

$row = mysql_fetch_row($rows); //18
if($amfmstereo != $row[1]) {
    $r = $r - $row[2];
    $w = $w - $row[2];
}

$row = mysql_fetch_row($rows); //19
if($powerwindows != $row[1]) {
    $r = $r - $row[2];
    $w = $w - $row[2];
}

$row = mysql_fetch_row($rows); //20
if($powerrdoorlocks != $row[1]) {
    $r = $r - $row[2];
    $w = $w - $row[2];
}

$row = mysql_fetch_row($rows); //21
if($tiltwheel != $row[1]) {
    $r = $r - $row[2];
    $w = $w - $row[2];
}

$row = mysql_fetch_row($rows); //22
if($cruisecontrol != $row[1]) {
    $r = $r - $row[2];
    $w = $w - $row[2];
}
$row = mysql_fetch_row($rows); //23

if($cassette === $row[1]) {
    $r = $r + $row[2];
    $w = $w + $row[2];
}

if($w_price) {
    echo "<br><center><font size = 4>Wholesale price:</font></center>";
    echo "<br>";
    echo "<center><font size = 5>\$$w</font></center>"
}

if($r_price) {
    echo "<br><center><font size = 4>Retail price:</font></center>";
    echo "<br>";
    echo "<center><font size = 5>\$$r</font></center>"
}

if(!$w_price && !$r_price) {
    echo "<center><font size = 4>Wholesale price:</font></center>";
    echo "<br>";
    echo "<center><font size = 5>\$$w</font></center>";
    echo "<center><font size = 4>Retail price:</font></center>";
    echo "<br>";
    echo "<center><font size = 5>\$$r</font></center>"
}

?>
<br><br>
<p align=center><font size=3>This price is not a private-party value and actual dealer selling or buying price may vary from this price.</font></p>

</body></html>

Web application:
<html>
<head>
  <title>main page</title>
</head>
<body bgcolor="#00CCFF">
<table border="0" cellpadding="0" cellspacing="0" style="border-collapse: collapse" bordercolor="#000000" width="92%" id="AutoNumber1" height="592">
  <tr>
    <td width="21%" height="73" rowspan="2">
      <img border="0" src="figures/titlesource2.jpg" width="100%" height="73" />
    </td>
    <td width="79%" height="58">
      <img border="0" src="figures/titlename.jpg" width="100%" height="58" />
    </td>
  </tr>
  <tr>
    <td width="79%" height="15">
      <img border="0" src="figures/titlesub%20copy.jpg" width="100%" height="15" />
    </td>
  </tr>
  <td width="79%" height="519" rowspan="2" bgcolor="#C0C0C0">
    <p align="center">
      <a href="main.html" ><img border="2" src="figures/main.jpg" width="100" height="20"></a>
      <a href="serverform.html" >
        <img border="2" src="figures/newmember.jpg" width="100" height="20" />
      </a>
      <a href="serverlogin.html" >
        <img border="2" src="figures/member.jpg" width="100" height="20" />
      </a>
      <a href="adminlogin.html" >
        <img border="2" src="figures/administrator.jpg" width="100" height="20" />
      </a>
    </p>
  </td>
</table>

<h2 align=center><font color="#FFFF00" face="Courier New">Welcome to</font></h2>

Mobile Used Car Prices & Information</p>

<h2 align=center><font size=3 color="#0000FF" face="Courier New">wholesale price & retail price</font></h2>

Main</p>
MOBILE USED CAR PRICES & INFORMATION is a software system which allows users to read the used car values and car equipments from Palm OS devices. This Wireless Web application is to develop a mobile vehicle Web application for clients who are interested in used cars. devices provide the wireless access to the internet and communicate with a desktop computer. Therefore, the basic design of this project is simply to communicate between Palm OS devices and a remote server.

Enter</a>
<?php
    session_start();
    $mypassword = $_GET['password'];
    session_register("mypassword");
?>

<html><head></head><body bgcolor="#6699FF">
</body><body bgcolor="#C0C0C0">
<table border="0" cellpadding="0" cellspacing="0" style="border-collapse: collapse"
bordercolor="#111111" width="92%"
id="AutoNumber1" height="592">
<tr>
    <td width="21%" height="73" rowspan="2">
        <img border="0" src="figures/titlesource2.jpg" width="100%" height="73"></td>
    <td width="79%" height="58">
        <img border="0" src="figures/titlename.jpg" width="100%" height="58"></td>
</tr>
<tr>
    <td width="79%" height="15">
        <img border="0" src="figures/titlesub%20copy.jpg" width="100%" height="15"></td>
</tr>
<tr>
    <td width="21%" height="204" bordercolor="#000000" bgcolor="#808080">
        <p align="center">
            <a href="main.html">
                <img border="2" src="figures/main.jpg" width="100" height="20"></a>
            <p align="center"><a href="serverform.html">
                <img border="2" src="figures/newmember.jpg" width="100" height="20"></a>
        </p></p>
    </td>
</tr>
</table>
<h2 align=center><font color=#0000ff face="Courier New">
Mobile Used Car Prices & Information</font></h2>

wholesale price & retail price</font></h2>
<p align=center><b><font face="Courier New" size=5 color="#FFFF00">
Login Result</font></b></p>

<?
mysql_connect("localhost","root","007164");
mysql_select_db("used_car");
$sql = "SELECT Password FROM customer_information";
$pw = mysql_query($sql);

$check = "0";

if(!$pw) echo (<b>No Password!</b></font>");
else {
    while($id = mysql_fetch_row($pw)) {
        if($id[0] == $mypassword) {
            $check = "1";
            break;
        }
    }
}

if($check == "1") {
    echo (<center><b>Valid Password!</b></center>
    echo ' <center><b>

150
<a href="/server/Obtain.html">Obtain Used Car WCA</a></font></center>'; 
  echo "<br>";
  echo '<center><font face=Courier New size=5>
<a href="/server/viewmyinfo.php">View Your Information</a></font></center>'; 
  echo "<br>";
  echo '<center><font face=Courier New size=5>
<a href="/server/changeform.php">Change Your Information</a></font></center>'; 
  echo "<br>";
  echo '<center><font face=Courier New size=5>
<a href="/server/membersearch.html">Search Used Cars</a></font></center>'; 
  echo "<br>";
  echo '<center><font face=Courier New size=5>
<a href="/server/cancel.php">Cancel Your Membership</a></font></center>'; 
} 
if($check === "0") { 
  echo "<center><font face=Courier New size=5>
<b>Invalid Password!</b></center><br><br>
"; 
}
?>

<p align=center>&nbsp;</p>

<p>&nbsp;<p>&nbsp;<p>&nbsp;<p>&nbsp;<p>&nbsp;</p>&nbsp;</p>&nbsp;</p>&nbsp;</p>&nbsp;</p>&nbsp;</td> 
</tr>
<tr> 
<td width="21%" height="315" bgcolor="#808080"&nbsp;</td> 
</tr>

</table>

</body></html>
Mobile Used Car Prices & Information

| Used Car Prices |
|----------------|----------------|
| 152            |                |
wholesale price & retail price</p><br>
Wrong input! Please input a phone number!

if($check === "2")
    echo ("Wrong input! Please input a phone number!");

if($check === "0")
    echo ("The password must be an integer number!");

if($check === "1") {
    $lastname = strtolower($lastname);
    $lastname = ucfirst($lastname);

    $firstname = strtolower($firstname);
    $firstname = ucfirst($firstname);

    $address = strtolower($address);
    $city = strtolower($city);
    $country = strtoupper($country);
    mysql_connect("localhost", "root", "007164");
    mysql_select_db("used_car");
    $sql = "SELECT Password FROM customer_information";
    $pw = mysql_query($sql);
    $test = "1";
    if(!$pw) {
        } else {
            while($result = mysql_fetch_row($pw)) {
                if($password === $result[0]) $test = "0";
            }
        }
    if($test === "0")
        echo ("This password have been used, Please choose another number!");
    else {
        $sql = "Insert Into customer_information (Lastname,Firstname,Email,Phone,Address,City,Country,Password) Values (".$lastname",".$firstname",".$email",".$phone",".$address",".$city",".$country",".$password")";
        mysql_query( $sql );
$sql = "SELECT * FROM customer_information
WHERE Password = '$password';"

$rows = mysql_query($sql);
if(!$rows) echo "<font face=Courier New size=4><b>No Data!</b></font>";
else {
    while($row = mysql_fetch_row($rows)) {
        for($I= 2;$I<count($row);$I++) {
            $temp = mysql_field_name($rows,$I);
            echo "<font face=Courier New size=4>$temp</font>:
             "&nbsp;&nbsp;";
            echo "<font face=Courier New size=4>$row[$I]</font>";
        }
    }
    echo "<br>"
}

echo "<center><b><font face=Courier New size=4><b>This member has been registered to our database!</b></font></b>"
    echo "<br><font face=Courier New size=4><b>Now go to</b></font>"
    echo ' <font face=Courier New size=4 color=#0000ff><a href="/server/serverlogin.html">MEMBER</a></b>"></font></center>
    }

?""<p align=center>&nbsp;</p>
<p>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&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
File name: change.php

<?php
    session_start();
?>

<html>
<head>
    <title>change page</title>
</head>
<body bgcolor="#FFCC00">
<table border="0" cellpadding="0" cellspacing="0" style="border-collapse: collapse" bordercolor="#111111" width="92%" id="AutoNumber1" height="592">
    <tr>
        <td width="21%" height="73" rowspan="2">
            <img border="0" src="figures/titlesource2.jpg" width="100%" height="73" />
        </td>
        <td width="79%" height="58">
            <img border="0" src="figures/titlename.jpg" width="100%" height="58" />
        </td>
    </tr>
    <tr>
        <td width="79%" height="15">
            <img border="0" src="figures/titlesub%20copy.jpg" width="100%" height="15" />
        </td>
    </tr>
    <tr>
        <td width="21%" height="204" bordercolor="#000000" bgcolor="#808080">
            <p align="center">
                <a href="main.html">
                    <img border="2" src="figures/main.jpg" width="100" height="20" />
                </a>
            </p>
            <p align="center">
                <a href="serverform.html">
                    <img border="2" src="figures/newmember.jpg" width="100" height="20" />
                </a>
            </p>
            <p align="center">
                <a href="serverlogin.html">
                    <img border="2" src="figures/member.jpg" width="100" height="20" />
                </a>
            </p>
            <p align="center">
                <a href="adminlogin.html">
                    <img border="2" src="figures/administrator.jpg" width="100" height="20" />
                </a>
            </p>
        </td>
    </tr>
</table>
</body>
</html>
<td width="79%" height="519" rowspan="2" bgcolor="#C0C0C0">

<h2 align=center><font color=#0000ff face="Courier New">Mobile Used Car Prices & Information</font></h2>

<h2 align=center><font size=3 color=#0000ff face="Courier New">wholesale price & retail price</font></h2>

<p align="center">
<b>Result</b>
</p>

<?php

mysql_connect("localhost","root","007164");

mysql_select_db("used_car");

$mypw = $HTTP_SESSION_VARS[mypassword];

$check = "0";

$test ="1";

if($_GET["lastname"])
{
    $lastname = $_GET["lastname"];

    $lastname = strtolower($lastname);
    $lastname = ucfirst($lastname);

    $sql = "UPDATE customer_information SET Lastname = '$lastname' WHERE Password = '$mypw';"

    mysql_query( $sql )
    $check = "1";
}

if($_GET["firstname"])
{
    $firstname = $_GET["firstname"];

    $firstname = strtolower($firstname);

}
$firstname = ucfirst($firstname);

$sql = "UPDATE customer_information SET
       Firstname = '{$firstname}' WHERE Password = '{$mypw}'";

mysql_query( $sql );
$check = "1";
}

if($_GET["email"]){
    $email = $_GET["email"];

    $sql = "UPDATE customer_information SET
           Email = '{$email}' WHERE Password = '{$mypw}'";

    mysql_query( $sql );
    $check = "1";
}

if($_GET["phone"]){  
    $phone = $_GET["phone"];

    if(is_numeric($phone)){
        $sql = "UPDATE customer_information SET
               Phone = '{$phone}' WHERE Password = '{$mypw}'";

        mysql_query( $sql );
        $check = "1";
    } else $check = "4";
}

if($_GET["address"]){  
    $address = $_GET["address"];

    $address = strtolower($address);

    $sql = "UPDATE customer_information SET
           Address = '{$address}' WHERE Password = '{$mypw}'";

    mysql_query( $sql );
    $check = "1";
}

if($_GET["city"]){  

}
$city = $_GET['city'];
$city = strtolower($city);
$sql = "UPDATE customer_information SET
    City = '$city' WHERE Password = '$mypw';"
mysql_query( $sql );
$check = "1";
}

if($_GET['country']) {
    $country = $_GET['country'];
    $country = strtoupper($country);
    $sql = "UPDATE customer_information SET
        Country = '$country' WHERE Password = '$mypw';"
    mysql_query( $sql );
    $check = "1";
}

if($_GET['password']) {
    $password = $_GET['password'];
    if(is_numeric($password)) ;
    else $check = "3";
    if($check == "3") echo "<center><b><font face=Courier New size=4> You must enter a number for password!</font></b></center>";
    else {
        $sql = "SELECT Password FROM customer_information";
        $pw = mysql_query($sql);
        if(!$pw) ;
        else {
            while($result = mysql_fetch_row($pw)) {
                echo "<center><b><font face=Courier New size=4> You must enter a number for password!</font></b></center>";
            }
if($password === $result[0]) $test = "0";
}

if($test == "0") {
    echo "<center><b><font face=Courier New size=4>
    This password have been used, Please choose another number!</font></b></center>";
    $check = "2";
}

if($test == "1") {
    $sql = "UPDATE customer_information SET
    Password = '$password' WHERE Password = '$mypw'";
    mysql_query($sql);
    $check = "1";
}
}
else $test = "0";

if($check == "0")
    echo "<center><font face=Courier New size=4><b>
    You did not change any data</b></font></center>";

if($check == "4")
    echo "<center><font face=Courier New size=4><b>
    Wrong input! Please enter a phone number!</b></font></center>";

if($check == "1") {
    if($test == "0")
        $sql = "SELECT * FROM customer_information
              WHERE Password = '$mypw'";
    if($test == "1")
        $sql = "SELECT * FROM customer_information
              WHERE Password = '$password'";

    $rows = mysql_query($sql);
    echo "$<center><font face=Courier New size=4><b>

160
Your information has been changed as following:

```php
if(!empty($rows)) {
    echo '<center><font face=Courier New size=4><b>
        No Data!</b></font></center>';
} else {
    while($row = mysql_fetch_row($rows)) {
        for($I=0;$I<count($row);$I++) {
            $temp = mysql_field_name($rows,$I);
            echo '<font face=Courier New size=4>'.$temp.'</font>
                : ' . $row[$I] . '<br>
        }
    }
?

<p align=center>&nbsp;</p>
<p align=center>&nbsp;</p>
<p>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&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...
File name: cancelmember.php

<html>
<head>
<title>cancel membership page</title>
</head>
<body bgcolor="#FF6600">
<table border="0" cellpadding="0" cellspacing="0" style="border-collapse: collapse" bordercolor="#111111" width="92%" id="AutoNumber1" height="592">
<tr>
<td width="21%" height="73" rowspan="2">
<img border="0" src="figures/titlesource2.jpg" width="100%" height="73"></td>
</tr>
<tr>
<td width="79%" height="58">
<img border="0" src="figures/titlename.jpg" width="100%" height="58"></td>
</tr>
<tr>
<td width="79%" height="15">
<img border="0" src="figures/titlesub%20copy.jpg" width="100%" height="15"></td>
</tr>
<tr>
<td width="21%" height="204" bgcolor="#C0C0C0">
<h2 align=center><font color="#0000ff" face="Courier New">
162
</font></h2>
</td>
</tr>
<tr>
<td width="79%" height="519" rowspan="2" bgcolor="#808080">
<p align="center">
<a href="main.html">
<img border="2" src="figures/main.jpg" width="100" height="20"></a>
</p>
<p align="center">
<a href="serverform.html">
<img border="2" src="figures/newmember.jpg" width="100" height="20"></a>
</p>
<p align="center">
<a href="serverlogin.html">
<img border="2" src="figures/member.jpg" width="100" height="20"></a>
</p>
<p align="center">
<a href="adminlogin.html">
<img border="2" src="figures/administrator.jpg" width="100" height="20"></a>
</p>
</td>
</tr>
</table>
</body>
</html>
Mobile Used Car Prices & Information</font></h2>

<h2 align=center><font size=3 color=#0000ff face="Courier New">wholesale price & retail price</font></h2>

<p align="center">
<b>
wholesale price & retail price</b>
</p>

<?php

$check = "1";

if($_GET['Account'])
    $Account = $_GET['Account'];
else $check = "0";

if($check === "0")
    echo ("<center><b><font face=Courier New size=4>
You must input the number!</font></b></center>"");

if($check === "1") {
    
    mysql_connect("localhost","root","007164");
    mysql_select_db("used_car");
    $sql = "SELECT Account_id FROM customer_information";
    $pw = mysql_query($sql);
    $test ="1";
    if(!$pw) $test = "0";
    else {
        while($result = mysql_fetch_row($pw)) {
            if($Account === $result[0]) {
                $test = "1";
                break;
            }
        }
        else $test = "0";
    }

    if($test === "0")
    echo ("<center><b><font face=Courier New size=4>
You must input the number!</font></b></center>"");

}
echo "(<center><b><font face=Courier New size=4>
This customer does not exist in the
database!!</font></b></center>"; 

if($test == "1") {
    $sql = "SELECT * FROM customer_information WHERE
Account_id = '$Account'";
    $rows = mysql_query($sql);
    echo "(<center><b><font face=Courier New size=4>
This member as below has been
deleted:</b></font></center><br><br>");
    if(!$rows)
        echo "(<center><font face=Courier New
size=4><b>No Data!</b></font></center>)";
    else {
        while($row = mysql_fetch_row($rows)) {
            for($I = 1;$I<count($row);$I++) {
                $temp = mysql_field_name($rows,$I);
                echo "(<font face=Courier New
size=4><b>$temp</b></font>)";
            }
        }
        $sql = "DELETE FROM customer_information WHERE
Account_id = '$Account'";
        mysql_query($sql);
    }
}
<p align=center>&nbsp;</p>
<tr><td width="21%" height="315"
bgcolor="#808080"></td>
</tr></table></body></html>
<?php
    session_start();
?>
<html>
<head>
    <title>view your info page</title>
</head>
<body bgcolor="#0099CC">
<table border="0" cellpadding="0" cellspacing="0"
    style="border-collapse: collapse" bordercolor="#听听听听"
    width="92%" id="AutoNumber1" height="168"><tr>
    <td width="24%" height="49" rowspan="2">
        <img border="0" src="figures/titlesource2.jpg"
            width="100%" height="73"></td>
    <td width="76%" height="41">
        <img border="0" src="figures/titlename.jpg"
            width="100%" height="58"></td>
</tr><tr>
    <td width="76%" height="8">
        <img border="0" src="figures/titlesub%20copy.jpg"
            width="100%" height="15"></td></tr></table><center>
<h2 align=center><font color="#0000ff" face="Courier New">
   Mobile Used Car Prices & Information</font></h2><h2 align=center><font size=3 color="#0000ff" face="Courier New">
   wholesale price & retail price</font></h2>
<p align=center><br>
<font size="5" face="Courier New" color="#FFFFFF">View your Information</font></p></center>
</body>
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>
<head>
    <title>view your info page</title>
</head>
<body bgcolor="#0099CC">
<table border="0" cellpadding="0" cellspacing="0"
    style="border-collapse: collapse" bordercolor="#听听听听"
    width="92%" id="AutoNumber1" height="168"><tr>
    <td width="24%" height="49" rowspan="2">
        <img border="0" src="figures/titlesource2.jpg"
            width="100%" height="73"></td>
    <td width="76%" height="41">
        <img border="0" src="figures/titlename.jpg"
            width="100%" height="58"></td>
</tr><tr>
    <td width="76%" height="8">
        <img border="0" src="figures/titlesub%20copy.jpg"
            width="100%" height="15"></td></tr></table><center>
<h2 align=center><font color="#0000ff" face="Courier New">
   Mobile Used Car Prices & Information</font></h2><h2 align=center><font size=3 color="#0000ff" face="Courier New">
   wholesale price & retail price</font></h2>
<p align=center><br>
<font size="5" face="Courier New" color="#FFFFFF">View your Information</font></p></center>
</body>
</html>
$rows = mysql_query( $sql );
if ( !$rows ) $check = "0";
else $check = "1";
if($check === "0")
    echo ("<center><b><font face=Courier New size=4>
         No Data!</font></b></center>");

if($check === "1") {
    echo "<table bgcolor=white border=1 bordercolor=black align=center>
        <tr bgcolor=cyan>
            $field = mysql_fetch_field($rows);
            $field = mysql_fetch_field($rows);
            while( $field = mysql_fetch_field($rows) ) {
                echo "<td><font face=Courier New size=2><b>
                    $field->name
                </font></b></td>
            }
        <tr>
        while( $row = mysql_fetch_row($rows) ) {
            echo "<tr>
            for( $I=2; $I<count($row); $I++ ) {
                echo "<td align=right><font color=blue face=Courier New size=2>
                    $row[$I]
                </font></b></td>
            }
            echo "</tr>
        }
    echo "</table>

?>
<p>&nbsp;</p>
<p align="center">
    <a href="main.html">
        <img border="2" src="figures/main.jpg"></a>
    &nbsp;&nbsp;&nbsp;&nbsp;
    <a href="serverform.html">
        <img border="2" src="figures/newmember.jpg"></a>
    &nbsp;&nbsp;&nbsp;&nbsp;
    <a href="serverlogin.html">
        <img border="2" src="figures/member.jpg"></a>
    &nbsp;&nbsp;&nbsp;&nbsp;
    <a href="adminlogin.html">
        <img border="2" src="figures/administrator.jpg"></a/>
</p>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&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...
File name: searchusedcars.php

<html>
<head>
<title>Search page</title>
</head>
<body bgcolor="#0099CC">

<table border="0" cellpadding="0" cellspacing="0" width="92%" id="AutoNumber1" height="168">
  <tr>
    <td width="24%" height="49" rowspan="2">
      <img border="0" src="figures/titlesource2.jpg" width="100%" height="73"/>
    </td>
    <td width="76%" height="41">
      <img border="0" src="figures/titlename.jpg" width="100%" height="58"/>
    </td>
  </tr>
  <tr>
    <td width="76%" height="8">
      <img border="0" src="figures/titlesub%20copy.jpg" width="100%" height="15"/>
    </td>
  </tr>
  <tr>
    <td width="100%" height="119" bgcolor="#C0C0C0" colspan="2">
      <center>
        <h2 align=center><font color="#0000ff" face="Courier New">Mobile Used Car Prices & Information</font></h2>
        <h2 align=center><font size=3 color="#0000ff" face="Courier New">wholesale price & retail price</font></h2>
      </center>
    </td>
  </tr>
</table>
<br>
<p align="center">
Result</p>
</body>
</html>
<?php

    $c1 = "0";$c2 = 0;$c3 = 0;$c4 = 0;$c5 = 0;$c6 = 0;$c7 = 0;$c8 = 0;$c9 = 0;
    $c10 = 0;$c11 = 0;$c12 = 0;$c13 = 0;

    if($_GET["d1"])
        $d1 = $_GET["d1"];
    else $c1 = "1";

    if($_GET["d2"])
        $d2 = $_GET["d2"];
    else $c2 = "1";

    if($_GET["d3"])
        $d3 = $_GET["d3"];
    else $c3 = "1";

    if($_GET["d4"])
        $d4 = $_GET["d4"];
    else $c4 = "1";

    if($_GET["d5"])
        $d5 = $_GET["d5"];
    else $c5 = "1";

    if($_GET["d6"])
        $d6 = $_GET["d6"];
    else $c6 = "1";

    if($_GET["d7"])
        $d7 = $_GET["d7"];
    else $c7 = "1";

    if($_GET["d8"])
        $d8 = $_GET["d8"];
    else $c8 = "1";

        if($_GET["d9"])
            $d9 = $_GET["d9"];
        else $c9 = "1";

    if($_GET["d10"])
        $d10 = $_GET["d10"];
    else $c10 = "1";

    ?>
if($_GET['dll'])
    $dll = $_GET['dll'];
else $dll = "1";

if($_GET['dl2'])
    $dl2 = $_GET['dl2'];
else $cl2 = "1";

if($_GET['dl3'])
    $dl3 = $_GET['dl3'];
else $cl3 = "1";

if($cl === "1" && $c2 === "1" && $c3 === "1" && $c4 === "1" && $c5 === "1" && $c6 === "1" && $c7 === "1" && $c8 === "1" && $c9 === "1" && $c10 === "1" && $c11 === "1" && $c12 === "1"
    && $c13 === "1")
    echo "<center><b><font face=Courier New size=4>
        You must enter at least one field!</font></b></center>";
echo "<center><b><font face=Courier New size=4>
There is no match in the
database!</font></b></center>");
if($test === "1") {
    echo "<table bgcolor=white border=1
bordercolor=black align=center>
    echo "<tr bgcolor=cyan>
    while( $field = mysql_fetch_field($rows) ) {
        echo "<td><font face=Courier New size=2>
        $field->name
        </font></td>
    }
    echo "</tr>
    while( $row = mysql_fetch_row($rows) ) {
        echo "<tr>
        for( $I=0; $I<count($row); $I++ ) {
            echo "<td align=right><font color=blue
            face=Courier New size=2>
            . $row[$I]
        }
        echo "</tr>
    }
    echo "</table>
    }
}</p>
<p align="center"&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
<a href="main.html"> <img border="2" src="figures/main.jpg"></a>
&amp;nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
<a href="serverform.html"> <img border="2" src="figures/newmember.jpg"></a>
&amp;nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
<a href="serverlogin.html"> <img border="2" src="figures/member.jpg"></a>
&amp;nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
<a href="adminlogin.html"> <img border="2" src="figures/administrator.jpg"></a>
</p>
File name: adminlogin.php

<html><head>
<title>administrator login page</title>
</head>
<body bgcolor="#669999">
<table border="0" cellpadding="0" cellspacing="0" style="border-collapse: collapse; border-color: #111111; width:92%; id="AutoNumber1" height="592">
<tr>
<td width="21%" height="73" rowspan="2">
<img border="0" src="figures/titlesource2.jpg" width="100%" height="73"></td>
<td width="79%" height="58">
<img border="0" src="figures/titlename.jpg" width="100%" height="58"></td>
</tr>
<tr>
<td width="79%" height="15">
<img border="0" src="figures/titlesub%20copy.jpg" width="100%" height="15"></td>
</tr>
<tr>
<td width="21%" height="204" bordercolor="#000000" bgcolor="#808080">
<p align="center">
<a href="main.html"><img border="2" src="figures/main.jpg" width="100" height="20"></a><p align="center"><a href="serverform.html"><img border="2" src="figures/newmember.jpg" width="100" height="20"></a><p align="center"><a href="serverlogin.html"><img border="2" src="figures/member.jpg" width="100" height="20"></a><p align="center"><a href="adminlogin.html"><img border="2" src="figures/administrator.jpg" width="100" height="20"></p align="center"></td>
</tr>
<tr>
<td width="79%" height="519" rowspan="2" bgcolor="#C0C0C0">
<h2 align=center><font color="#0000ff" face="Courier New">
Mobile Used Car Prices & Information

<h2 align=center><font size=3 color=#0000ff face="Courier New">wholesale price & retail price</font></h2>

<b><font size="5" face="Courier New" color="#FFFF00">Login Result</font></b>

<?
$mypassword = $_GET["password"];
$name = $_GET["name"];
mysql_connect("localhost","root","007164");
mysql_select_db("used_car");
$sql = "SELECT Name,Password FROM administrator_info";
$pw = mysql_query($sql);
$check = "0";
if(!$pw) echo (<center><font face=Courier New size=5><b>No Data!</b></font></center>);
else {
    while($id = mysql_fetch_row($pw)) {
        if($id[0] == $name and $id[1] == $mypassword) {
            $check = "1";
            break;
        }
    }
}
if($check == "1") {
    echo (<center><font face=Courier New size=5><b>Valid Password!</b></font></center>);
    echo (<font face=Courier New size=5 color=#0000ff><a href="/server/managecustomer.html">Manage members</a></font>);
    echo "<br><br>";
    echo ' <font face=Courier New size=5 color=#0000ff>
<a href="/server/managecar.html">Manage Used Car Information</a>

`echo "<br><br>";`  
`echo '<font face=Courier New size=5 color=#0000ff>
<a href="/server/manageequipment.html">Manage Equipment</a></font>';`  
`echo "<br><br>";`  
`echo '<font face=Courier New size=5 color=#0000ff>
<a href="/server/manageprice.html">Manage Equipment Price</a></font>';`  
`echo "<br><br>";`  
`echo '<font face=Courier New size=5 color=#0000ff>
<a href="/server/managemileage.html">Manage mileage adjustment</a></font>';`  
`echo "<br><br>";`  
`echo '<font face=Courier New size=5 color=#0000ff>
<a href="/server/search.html">Search</a></font>';`  

```php
if($check === "0") {
    echo ("<center><h2><font face=Courier New size=5><b>Invalid Password!</b></font></h2></center>";
}
```

```html
<p align=center>&nbsp;</p>
<p align=center>&nbsp;</p>
<p>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&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```
File name: searchmembers.php

Mobile Used Car Prices & Information

wholesale price & retail price

Result
<?php
    $cl = "0";$c2 = 0;$c3 = 0;$c4 = 0;$c5 = 0;$c6 = 0;$c7 = 0;$c8 = 0;
    if($_GET["dl"])
        $dl = $_GET["dl"];  
    else $cl = "1";
    if($_GET["d2"])
        $d2 = $_GET["d2"];  
    else $c2 = "1";
    if($_GET["d3"])
        $d3 = $_GET["d3"];  
    else $c3 = "1";
    if($_GET["d4"])
        $d4 = $_GET["d4"];  
    else $c4 = "1";
    if($_GET["d5"])
        $d5 = $_GET["d5"];  
    else $c5 = "1";
    if($_GET["d6"])
        $d6 = $_GET["d6"];  
    else $c6 = "1";
    if($cl === "1" && $c2 === "1" && $c3 === "1" && $c4 === "1" && $c5 === "1" && 
$c6 === "1" && $c7 === "1") echo ("<center><b><font face=Courier New size=4>You must enter at least one field!</font></b></center>");
    else {
        mysql_connect("localhost","root","007164");
        mysql_select_db("used_car");

        $sql = "SELECT * FROM customer_information WHERE 
Lastname like '%$dl%' AND 
Firstname like '%$d2%' AND Email like '%$d3%'AND 
Phone like '%$d4%' 
AND Address like '%$d5%'AND City like '%$d6%' 
AND Country like '%$d7%' 
";
        $rows = mysql_query($sql);
        $num = mysql_num_rows($rows);
        $test = "0";
        if ($num === 0 ) $test = "0";
    }

    175
else $test = "1";
if($test === "0")
    echo "<center><b><font face=Courier New size=4>
    There is no match in the
database!</font></b></center>";
if($test === "1") {
    echo "<table bgcolor=white border=1
    bordercolor=black align=center>"
    echo "<tr bgcolor=cyan>"
    $field = mysql_fetch_field($rows);
    while( $field = mysql_fetch_field($rows) ) {
        echo "<td><font face=Courier New size=2>".
        $field->name . "</b></font>" . $field->name . "</td>
    }
    echo "</tr>";
    while( $row = mysql_fetch_row($rows) ) {
        echo "<tr>";
        for( $I=1; $I<count($row); $I++ ) {
            echo "<td align=right><font color=blue
            face=Courier New size=2>" . $row[$I] . "</font></td>
        }
        echo "</tr>";
    }
    echo "</table>";
}
<p>&nbsp;</p>
<p align="center">
    <a href="main.html">
        <img border="2" src="figures/main.jpg"></a>
    &nbsp;&nbsp;&nbsp;</p>

    <a href="serverform.html">
        <img border="2" src="figures/newmember.jpg"></a>
    &nbsp;&nbsp;&nbsp;

    <a href="serverlogin.html">
        <img border="2" src="figures/member.jpg"></a>
    &nbsp;&nbsp;&nbsp;

    <a href="adminlogin.html">
        <img border="2" src="figures/administrator.jpg"></a>
</p>
</p>
<p>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</p>
</td></tr></table></body></html>
**File name: carinfoform.php**

```
<html>
<head>
<title>car info page</title>
</head>
<body bgcolor="#FFFFCC">
<table border="0" cellpadding="0" cellspacing="0"
style="border-collapse: collapse" bordercolor="#000000"
width="92%" id="AutoNumber1" height="592">
  <tr>
    <td width="21%" height="73" rowspan="2">
      <img border="0" src="figures/titlesource2.jpg" width="100%" height="73"></td>
    <td width="79%" height="58">
      <img border="0" src="figures/titlename.jpg" width="100%" height="58"></td>
  </tr>
  <tr>
    <td width="79%" height="519" rowspan="2" bgcolor="#C0C0C0">
  </tr>
</table>
```

```
<p align="center">
<a href="main.html">
<img border="2" src="figures/main.jpg" width="100" height="20"></a>
</p>
<p align="center">
<a href="serverform.html">
<img border="2" src="figures/newmember.jpg" width="100" height="20"></a>
</p>
<p align="center">
<a href="serverlogin.html">
<img border="2" src="figures/member.jpg" width="100" height="20"></a>
</p>
<p align="center">
<a href="adminlogin.html">
<img border="2" src="figures/administrator.jpg" width="100" height="20"></a>
</p>
```

```
<td width="79%" height="519" rowspan="2" bgcolor="#C0C0C0">
```
<h2 align=center><font color="#0000ff face="Courier New">Mobile Used Car Prices & Information</font></h2>

<h2 align=center><font size=3 color="#0000ff face="Courier New">wholesale price & retail price</font></h2>

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

<b><font size="5" face="Courier New" color="#FFFF00">Result</font></b><br/>

<?php

$check = "1";

$test = "1";

if($_GET["category"])
  $category = $_GET["category"]; else $check = "0";

if($_GET["make"])
  $make = $_GET["make"]; else $check = "0";

if($_GET["model"])
  $model = $_GET["model"]; else $check = "0";

if($_GET["year"]){
  $year = $_GET["year"]; if(is_numeric($year)) else $check = "5";
}
else $check = "0";

if($_GET["type"])
  $type = $_GET["type"]; else $check = "0";

if($_GET["transmission"])
  $transmission = $_GET["transmission"]; else $check = "0";

?>
if($_GET['engine'])
    $engine = $_GET['engine'];
else $check = "0";

if($_GET['drive'])
    $drive = $_GET['drive'];
else $check = "0";

if($_GET['equipment'])
    $equipment = $_GET['equipment'];
else $check = "0";

if($_GET['wholesale']) {
    $wholesale = $_GET['wholesale'];
    if(is_numeric($wholesale))
        else $check = "2";
} else $check = "0";

if($_GET['retail']) {
    $retail = $_GET['retail'];
    if(is_numeric($retail))
        else $check = "3";
} else $check = "0";

if($_GET['mileage']) {
    $mileage = $_GET['mileage'];
    if(is_numeric($mileage))
        else $check = "4";
} else $check = "0";

if($check === "2")
    echo "<center><b><font face=Courier New size=4>Wrong input! wholesale must be a number!</font></b></center>";
if($check === "3")
    echo "<center><b><font face=Courier New size=4>Wrong input! retail must be a number!</font></b></center>";
if($check === "4")
    echo "<center><b><font face=Courier New size=4>Wrong input! mileage must be a number!</font></b></center>";
if($check == "5")
    echo "<center><b><font face=Courier New size=4>
    Wrong input! year must be a number!</font></b></center>";

if($check == "0")
    echo "<center><b><font face=Courier New size=4>
    You must enter all fields</font></b></center>");
if($check == "1") {
    $category = strtolower($category);
    $category = ucfirst($category);

    $make = strtolower($make);
    $make = ucfirst($make);

    $model = strtolower($model);
    $model = ucfirst($model);

    $type = strtolower($type);
    $type = ucfirst($type);

    $transmission = strtolower($transmission);
    $transmission = ucfirst($transmission);

    $drive = strtolower($drive);
    $drive = ucfirst($drive);

    mysql_connect("localhost","root","007164");
    mysql_select_db("used_car");

    $sql = "SELECT Type,Transmission FROM used_car_information WHERE Model = '$model' AND Year = '$year'";
    $rows = mysql_query($sql);
    if(!$rows) ;
    else {
        while($result = mysql_fetch_row($rows)) {
            if($result[0] == $type && $result[1] == $transmission)
                $test = "0";
        }
    }
if($test === "0")
    echo("<center><b><font face=Courier New size=4>
This vehicle is already in the database!</font></b></center>");
if($test === "1") {
    $sql = "Insert into used_car_information (Category,Make,Model,Year,Type,Transmission,Engine,Drive,Equipment)
Values ("$category","$make","$model","$year",
"$type","$transmission","$engine","$drive","$equipment")",
mysql_query( $sql );

$sql = "SELECT * FROM used_car_information WHERE Model = "$model" AND Year = "$year" AND Type = "$type"
AND Transmission ="$transmission";
$rows = mysql_query($sql);
if(!$rows) ;
else {
    while($result = mysql_fetch_row($rows)) {
        $sql = "UPDATE used_car_information SET Wholesale = "$wholesale",Retail = "$retail",Mileage = "$mileage"
WHERE Info_number = $result[0]";
        mysql_query( $sql );
    }
}

$sql = "SELECT * FROM used_car_information WHERE Model = "$model"
AND Year = "$year" AND Type = "$type" AND Transmission ="$transmission";
$rows = mysql_query($sql);

echo ("<br><center><font face=Courier New size=4><b>
This car has been created as following:</b></font></center>");
if(!$rows)
    echo ('<center><font face=Courier New size=4>b>No Data!</b></font></center>'');
else {
    while($row = mysql_fetch_row($rows)) {
        for($I= 0;$I<count($row);$I++) {
            $temp = mysql_field_name($rows,$I);
            echo ('<font face=Courier New size=4>' . '<font face=Courier New size=4>' . '&nbsp;&nbsp;' . '</font>').
            echo ('<font face=Courier New size=4>' . $row[$I] . '</font>').
            echo '<br>';
        }
    }
}

?>
<p align=center>&nbsp;</p>

<tr>
    <td width="21%" height="315" bgcolor="#808080"&nbsp;</td>
    <tr>
</table>
</body></html>
File name: createequipment.php

<html>
<head>
<title>Create equipment page</title>
</head>
<body bgcolor="#0099CC">
<table border="0" cellpadding="0" cellspacing="0" style="border-collapse: collapse;" bordercolor="#111111" width="92%" id="AutoNumber1" height="592">
<tr>
<td width="21%" height="73" rowspan="2">
<img border="0" src="figures/titlesource2.jpg" width="100%" height="73"></td>
<td width="79%" height="58">
<img border="0" src="figures/titlename.jpg" width="100%" height="58"></td>
</tr>
<tr>
<td width="79%" height="15">
<img border="0" src="figures/titlesub%20copy.jpg" width="100%" height="15"></td>
</tr>
<tr>
<td width="21%" height="204" bordercolor="#000000" bgcolor="#808080">
<p align="center">
<a href="main.html">
<img border="2" src="figures/main.jpg" width="100" height="20"></a>
</p>
<p align="center"><a href="serverform.html">
<img border="2" src="figures/newmember.jpg" width="100" height="20"></a>
</p>
<p align="center"><a href="serverlogin.html">
<img border="2" src="figures/member.jpg" width="100" height="20"></a>
</p>
<p align="center"><a href="adminlogin.html">
<img border="2" src="figures/administrator.jpg" width="100" height="20"></a>
</p>
</td>
<td width="79%" height="519" rowspan="2" bgcolor="#C0C0C0">
</td>
</tr>
</table>
</body>
</html>
<h2 align=center><font color=#0000ff face="Courier New">Mobile Used Car Prices & Information</font></h2>

<h2 align=center><font size=3 color=#0000ff face="Courier New">wholesale price & retail price</font></h2>

<p align="center">
<b>
Result
</b>
</p>

<?php

$check = "1";

if($_GET["name"])
    $name = $_GET["name"];
else $check = "0";

if($check === "0")
    echo "<center><b><font face=Courier New size=4>184

if($check == "1") {

    mysql_connect("localhost","root","007164");
    mysql_select_db("used_car");

    $sql = "SELECT Name FROM equipment";

    $rows = mysql_query($sql);
    $test = "1";
    if(!$rows) ;
    else {
        while($result = mysql_fetch_row($rows)) {
            if($result[0] === $name) $test = "0";
        }
    }

    if($test == "0")
        echo "<center><b><font face=Courier New size=4>";
This equipment has been registered in the database!

```php
if($test == "1") {
    $sql = "Insert into equipment (Name) Values ('$name')";
    mysql_query( $sql );
    $sql = "SELECT * FROM equipment WHERE Name = '$name'";
    $rows = mysql_query($sql);
    echo ("<br><font face=Courier New size=4><b>
        This equipment information has been added to the list:</b></font>");
    if(!$rows) echo ("<center><font face=Courier New size=4><b>No Data!</b></font></center>");
    else {
        while($row = mysql_fetch_row($rows)) {
            for($I = 0;$I<count($row);$I++) {
                $temp = mysql_field_name($rows,$I);
                echo ("<font face=Courier New size=4><b>
                    $temp</b></font>".
                    "<font face=Courier New size=4><b>
                    :</b></font>".
                    "<font face=Courier New size=4><b>
                    </b></font>");
                echo "&nbsp;&nbsp;";
                echo ("<font face=Courier New size=4>$row[$I]</font>");
                echo "<br>
            }
        }
    }
}

<?

<p align=center>&nbsp;</p>
<p align=center>&nbsp;</p>
<p align=center>&nbsp;</p>
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