**COMP 220 Fall 2022 Coding Assignment**

Project Overview

This assignment is due Fri Oct 21st at 12noon. If you submit it before Wed Oct 26th at 12noon, you will not lose marks for lateness. For this assignment, you will build a php/mysql web application for bluetooth smart sunglasses. Someone has been hired to complete the data entry for the company’s sunglass inventory. The user will be able to create a table, add records, delete records and display all records in the table.

Create a folder named Last**Then**FirstCodingAsst. Name your files as follows:

* asstInclude.php. Start with the include file built during class.
* asstMain.php. All php code is to be placed in one php file. The exception to this is your include file and the provided cls file.
* asstStyle.css
* clsDeleteSunglassRecord.php
* auth.txt with our original settings.

When testing your program, use Chrome. Be sure to use the names provided here. You may choose the case type: capital camel case and camel case.

GUI Design

Your client provided you with the navigation rules for the web site and gave you free reign on how to design the CSS. The only CSS guidelines you are required to follow are shown below:

1. Implement a colour scheme. If you would like colour suggestions, see:

<https://color.adobe.com/explore/newest/?time=all>.

1. Use an online tool to create images for buttons that match your colour scheme. You will need eight buttons: Home, Create Table, Add Record, Save Record, Delete Record, Delete!, Display Data.
2. The body font size should be 1.2em.
3. The font size for all data entry controls should be 1.2 em.

The Include File

Verify that your in class include file is working and contains the following functions in the following order: WriteHeaders, DisplayLabel, DisplayTextbox, DisplayImage, DisplayButton, DisplayContactInfo, WriteFooters and CreateConnectionObject.

Modify DisplayTextbox to add a new parameter at the start of the parameter list. This new parameter represents the html input element to display. For example, if *text* is sent into the function, use html element *input type = text*. If *date* is sent in to the function, use html element

*input type = date*.Other options are *input type = time, input type = number, input type = color*

The Code

Important Note: In visual code, your code **cannot go past column 80.** Main has been provided. You can change some of the code in main, but you likely do not need to add additional code lines to main. All variables in this assignment are local.

Function DisplayMainForm: no parameters

This function displays the home page. The page should display buttons in the following order: Create Table, Add Record, Delete Record and Display Data.

Function CreateTableForm: parameters mysqlObj and Tablename

This function runs when the user clicks Create Table. It creates the Sunglasses table as follows:

* Brand name, 10 byte string. Primary key.
* Date manufactured: date data type.
* Camera MP: integer data type.
* Colour, 15 byte string.

Display either *Table Sunglasses created.*  or *Unable to create table Sunglasses*. Add a Home button.

Function AddRecordForm: parameters mysqlObj and Tablename

This is the data entry page. It runs when the user clicks Add Record from the Home page. The user will enter data and click Save Record. This function should do the following:

1. Provide labels and data entry controls in the order shown below.
   * Brand name: textbox. Think about the best size for the textbox.
   * Date manufactured: html 5 date control (input type=date). Set the default date to the system date. To do this, set the value attribute of the control to *date('Y-m-d')*
   * Camera: two radio buttons: 5 MP and 10 MP. Set the default to 5 MP.
   * Colour: html 5 colour control (input type = color). Set a default colour for the control. Be sure to select a colour that is noticeably different than black or white.
2. Display a Save Record button and a Home button. The Save Record button must appear above or to the left of the Home button. If not, the user will lose their data when Enter is pressed.
3. To space out the data entry controls, encase each data entry pair in class *datapair*. Code the class with a top and bottom margin. See your answer to ZooParameters.php.

Function SaveRecordToTableForm: parameters mysqlObj and Tablename

This function runs when the user clicks the Save button. It examines user entered data then adds a new record to the table. If 5 MP was chosen, store 5 in the table, otherwise store 10. For colour, store the hex code in the table. Tell the user either *Record successfully added to Sunglasses* or *Unable to add record to Sunglasses.* Add a Home button.

Function DisplayDataForm: parameters mysqlObj and Tablename

Display all table data in an html table with lines and a border. The display should be sorted by primary key. Include column headings. The colour field should display as the colour not the hex code. Use a colour control to display the actual colour, not the hex code. Add a Home button.

Function DeleteRecordForm: parameters mysqlObj and Tablename

This function runs when the user clicks Delete Record. Provide the user with the opportunity to enter the brand name of the record to be deleted. Include a label saying the deletion is final. Add a *Delete!* button and a Home button.

Function IssueDeleteForm: parameters mysqlObj and Tablename

This function runs when the user clicks Delete!. Your supervisor has provided you with an API that enables you to easily delete a record. Examine the provided class then implement it inside this function. Display *<brand name> record deleted.* or *<brand name> record does not exist.* Add a Home button.

Documentation

Add a comment on line 1 of **each** file, stating the exact url to run asstMain.php from localhost. For example:

http://localhost/Last**Then**FirstCodingAsst/asstMain.php

Make sure *http://* is included. Test the url by double clicking it in Visual Code. No additional documentation is required.

Additional Notes

1. Your website must work on your client’s machine. Be sure to test it on a laptop size monitor.
2. For a student to earn a grade on this assignment, the submitted assignment must be free of syntax errors.
3. Your client provided the specifications and submission instructions. Be sure to follow them.
4. Your code must follow the programming methodologies covered in class materials. There are many methods on google and php.net. Some are solid, some are deprecated, some are security risks. Follow the recommendations by your supervisor (Janis).
5. Unless specified in this document, there should be no default data in the controls.
6. Each line of code should be 80 characters long or less.
7. During testing, you may notice your new code changes are not executed when you press F5. The browser is using cache. Using ctrl-F5 to refresh the page is recommended. If you are still having issues, close and restart Chrome.

Submitting Your Assignment

1. Assignments will be marked as submitted and will not be marked twice. Make sure you have fully completed your assignment before submitting it.
2. Check that all files needed to run the application are in your assignment folder.
3. Verify that your assignment folder is named Last**Then**FirstCodingAsst and the documentation is done correctly. If the folder is not named correctly, then your assignment will not be graded as it will be overwritten by another student’s work.
4. To submit via One Drive, it is important you follow these steps exactly:
   1. Make a copy of your assignment folder.
   2. Log in to slc.me
   3. Click the waffle (9 dots in top left) and choose one drive.
   4. Click My Files on the left side.
   5. Click upload then click folder.
   6. Navigate to the copy of your assignment folder. Be sure it is the correct folder.
   7. The folder should show at the top of the dialog box. Note that the dialog box shows the folder but not the files in it.
   8. Click Upload. When prompted to upload all files, click Upload.
   9. A box will pop up telling you how many files were uploaded.
   10. Hover over the new folder. The 3 dots icon appears to the right of the folder name. Click the 3 dots and click Share. Enter my name: Janis Michael then click Send.