Lab 8 – MySQL Databases with PHP

Reference: Chapter 7 of the "PHP Programming with MySQL" textbook.

PHP mysqli   http://www.php.net/manual/en/book.mysqli.php

Aims:

- To be able to create PHP code to connect to the MySQL database server and your student database "**s1234567_db**"; and to be able to create a table, and execute other SQL statements using PHP to manipulate data within the table.
- To become aware of the use of include files, and other measures to secure database connection details.

Getting Started:

Create a new folder '**lab08**' under the unit folder on the mercury server
~/cos30020/www/htdocs folder on mercury.
Save today's work in this lab08 folder.

Task 1: Retrieve and display records from the table (9 marks)

Step 1:

Create a file **settings.php** that contains variable declaration and initialisation of the database host, user name and password. It should not contain any HTML tags.

```
<?php
  $host = "feenix-mariadb.swin.edu.au";
  $user = _____(1)_____; // your user name
  $pswd = _____(2)_____; // your password d(date of birth – ddmmyy)
  $dbnm = _____(3)_____; // your database
?>
```

Step 2:

Create a file **cars_display.php** that selects only car_id, make, model and price from the database table cars created in Lab 7 and displays them neatly in a html table.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8" />
  <meta name="description" content="Web application development" />
  <meta name="keywords" content="PHP" />
  <meta name="author"   content="Your Name" />
  <title>TITLE</title>
</head>
<body>
<h1>Web Programming - Lab08</h1>
<?php
  require_once ("settings.php");

  // complete your answer based on Lecture 8 slides 26 and 44

?>
</body>
</html>
```

Test in the browser, and check that the page is valid.

Task 2: VIP member Registration System (6 marks)

The overall task is to create a Web application that manages a VIP Member's details using a MySQL database table created and accessed through PHP scripts.

The following fields are to be created for the 'vipmembers' table:
- member_id   INT AUTO_INCREMENT PRIMARY KEY
- fname   VARCHAR(40)
- lname   VARCHAR(40)
- gender   VARCHAR(1)
- email   VARCHAR(40)
- phone   VARCHAR(20)

Step 1: Creating the VIP Member Home Page vip_member.php

Create a simple "Home Page" document **vip_member.php** that contains links to:
- "Add New Member Form",   **member_add_form.php,**
- "Display All Members Page"   **member_display.php,** and
- "Search Member Page"   **member_search.php**.

Step 2: Creating the add member form member_add_form.php

Create a document **member_add_form.php** that contains a form with method **post** and action to **member_add.php** The form will need inputs for all the data for a new member, except member_id, the "Membership Number".

Hint: You could adapt any of the previous forms you have created in labs for this purpose.

Step 3: Create the database table, insert records member_add.php

Create the document **member_add.php** to create a connection to the mysql server and your database, create the 'vipmembers' table if it does not exist, and insert the details from "Add New Member Form" into the table.

Hint: You will need to execute two queries in this script: the first to create the table if does not exists and the second to insert the data.

Step 4: Retrieve and display records from the database table member_display.php

Create a document "Display all Members Page" **member_display.php** that selects only member_id, fname, lname from the database table and displays them neatly in a html table.

Step 5: Create a Search Page   member_search.php

Create a document "Search Member Page" **member_search.php** with a form to enable a search for a member(s) based on the last name in the database table, and then display the member_id, fname, lname, email details of all members that matched the last name in a html table.

Hint: This page will have a form with an action that calls itself.