School of Computer Science Engineering & Information Systems (SCORE)

Common Challenging Lab Experiments

Semester : **Fall 2024-25**
Course : **ISWE206P – Web Technologies Lab**
Assessment : **Using PHP and MySQL**
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1. Design a PHP form for online driving license issue. Consider the fields- Name, Age and Address (text boxes). If the age is less than 18, issue an error message. Otherwise compute the expiry date [Today's date+ 15years] of the license. Assume that the validity of the driving license is for 15 years. Display the license with details using PHP.

2. Write a PHP form consisting of a single text field and a submit button. The "action" attribute of the form should be the same page that the form is on. The form should send the contents of the text field via GET. Upon submitting the form, you should be redirected to the same page, but the URL should contain the string from the text field as a GET request normally behaves. Check for the existence of a GET request. If a GET request exists with the name of the input field, run the contents of the request through countWords ($str) PHP function. That takes any string of characters and finds the number of times each word occurs, its position and length. Take the output and display of an HTML table of words, the number of times they occur, its position and its length. Make the table sorted by decreasing number of occurrences.

3. Write a PHP script to decode a JSON string and display each key vale pairs.

4. Create a simple 'birthday countdown' script, the script will count the number of days between current day and birthday.

5. Generate a random, unique, alpha-numeric string using PHP

6. Write a PHP program that reads a CSV file and displays the data in a tabular format.

7. Create a database with mysql tables - Artist and CD as follows:

```
mysql> SELECT * FROM Artist;
+-------+-------------------------------+----------------+
| artID | artName                       | artNationality |
+-------+-------------------------------+----------------+
|     1 | Muse                          | British        |
|     2 | Mr. Scruff                    | British        |
|     3 | DeadMau5                      | Canadian       |
|     4 | Mark Ronson                   | British        |
|     5 | Mark Ronson & The Business Intl | British      |
|     6 | Animal Collective             | American       |
|     7 | Kings of Leon                 | American       |
|     8 | Maroon 5                      | American       |
+-------+-------------------------------+----------------+
8 rows in set (0.00 sec)

mysql> SELECT * FROM CD;
+------+-------+------------------------------+---------+---------------+----------+--------+
| cdID | artID | cdTitle                      | cdPrice | cdGenre       | cdRating | cdYear |
+------+-------+------------------------------+---------+---------------+----------+--------+
|    1 |     1 | Black Holes and Revelations  |    9.99 | Rock          |       78 |   2006 |
|    2 |     1 | The Resistance               |   11.99 | Rock          |       90 |   2009 |
|    3 |     2 | Ninja Tuna                   |    9.99 | Electronica   |       55 |   2008 |
|    4 |     3 | For Lack of a Better Name    |    9.99 | Electro House |       38 |   2009 |
|    5 |     4 | Version                      |   11.99 | Rock          |       77 |   2007 |
|    6 |     5 | Record Collection            |   12.99 | Pop           |       22 |   2010 |
|    7 |     6 | Merriweather Post Pavilion   |   12.99 | Electronica   |       82 |   2009 |
|    8 |     7 | Only By The Night            |    9.99 | Rock          |       67 |   2008 |
|    9 |     7 | Come Around Sundown          |   12.99 | Rock          |       31 |   2010 |
|   10 |     8 | Hands All Over               |   11.99 | Pop           |       64 |   2010 |
+------+-------+------------------------------+---------+---------------+----------+--------+
10 rows in set (0.00 sec)
```

Write the necessary code into dbconnect.php for connecting server, connecting database and selecting database. Write the index.php that

i.   Connect to mysql by including dbconnect.php inside your index.php.

ii.   to insert records in the two tables as shown above.

iii.   to output a list of "cdTitle, cdGenre" pairs, separated by a comma.

iv.   to output an HTML table to hold the information produced by this query "SELECT artName, cdTitle, cdGenre, cdRating, cdYear FROM Artist NATURAL JOIN CD".

v.   to output a table to provide a list of artist names along with the average rating of their albums, and their nationality. The web page output should look something like this:

artName	Average Rating	artNationality
Animal Collective	82	American
DeadMau5	38	Canadian
Kings of Leon	49	American
Mark Ronson	77	British
Mark Ronson & The Business Intl	22	British
Maroon 5	64	American
Mr. Scruff	55	British
Muse	84	British

vi.   to colour the ratings using the rules below:

Average Rating	Colour	Class Name
0 − 39	Red	'poorrating'
40 − 59	Orange	'okrating'
60 − 79	Yellow	'goodrating'
80 − 100	Green	'greatrating'

artName	Average Rating	artNationality
Animal Collective	82	American
DeadMau5	38	Canadian
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Mark Ronson	77	British
Mark Ronson & The Business Intl	22	British
Maroon 5	64	American
Mr. Scruff	55	British
Muse	84	British

8. Write a pair of pages that work together to allow the user to upload an image, img_upload.html and img_submit.php. img_upload.html should be a full and well- formed html page containing a form with a file upload input and a submit button. When the user submits the form, it should post the form to img_submit.php, located in the same directory. When the user posts a file to img_submit.php, your program should check to see whether the filename of the file that was given ends in .jpg or .gif. If it doesn't, the page should respond with HTTP/1.1 status code 400, and then die() with an error message describing the problem. You should save the file by moving it into the same directory as your program, saving the image as the original filename that was given by the POST request. Then, it should render a complete HTML document with the image in the document as an img element. The alt text of the img should be "user uploaded image". Error handling: if the file fails the is_uploaded_file check, or if the filename of the file that the user uploaded doesn't end with .jpg or .gif, you should respond with a header that indicates a status code of 400, and die() with an appropriate error message.

9. Write a PHP and MySQL code that will output a form containing two fields: username and password. Upon submission of the form, the code should check against the database to see whether the username password pair was correct. If so, display a welcome message. If not, display the message "Invalid username or password" followed by the same login form. Add a "Log Out" button to the welcome message that, when clicked, ends the session so that the user is logged out. Clicking the button should redirect the user to the same login form. This behavior should be consistent with the lifetime of sessions. That is, the user should stay logged in despite refreshing and opening the same page in multiple tabs, but should be logged out once the browser is closed.

10. Write PHP with MySQL code to decode the following form values entered by user as shown below. Display all the values in table format with key and values with a personalized greeting message.

Give Mr Freeze feedback!

Enter your name: [   ]

What is your email? [   ]

Favourite ice-cream: [Vanilla   ▼]

☐ I have a nut allergy

☐ I have a milk allergy

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Enter any comments here




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[Submit Form] [Clear]