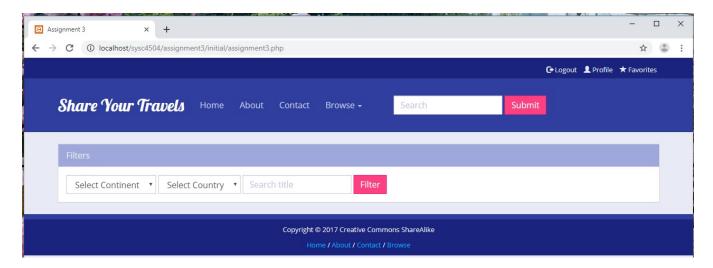
SYSC 4504: Fundamentals of Web Development Programming Assignment 3: PHP and SQL Queries Due: December 3, noon

Assignment Description

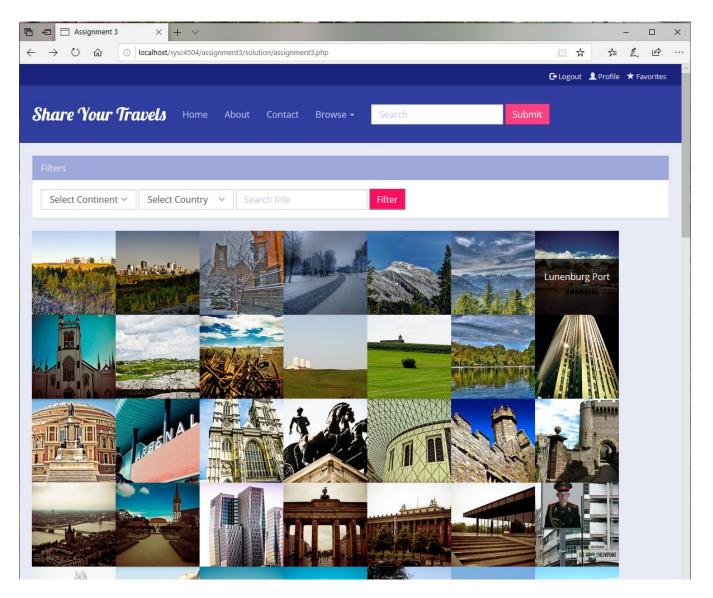
Assignment 3 concludes the set of assignments using the Travel blog running example. An initial set of files is provided as ZIP archive on cuLearn, containing assignment3.php and a number of subdirectories with (hopefully) obvious names and purpose. When you open assignment3.php in a web browser, it should look as follows (here using Google Chrome):



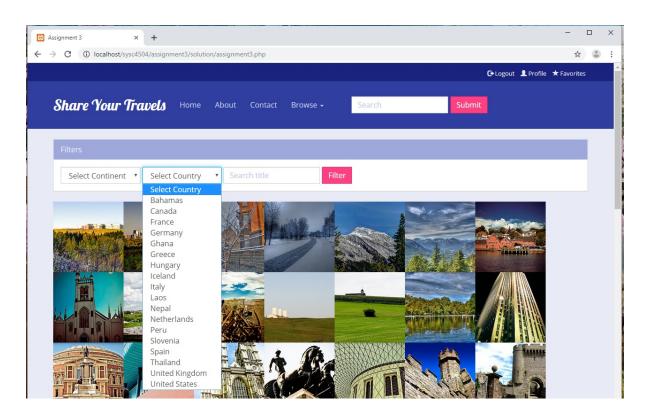
To complete the task, you need to deploy this application on a web server (for the PHP code to be executed). To complete the assignment (but not to run the initial PHP code), you also need to have the database server up and running, with the travel-small.sql database loaded. The database should be set up to allow for access by a user with userid testuser and password mypassword (as was done in Lab 5 as well).

You will need to retrieve information from three tables in the travel database: continents, countries, and imagedetails. The goal is to populate the middle of the canvas with images, either all images, or images filtered by various criteria. More specifically:

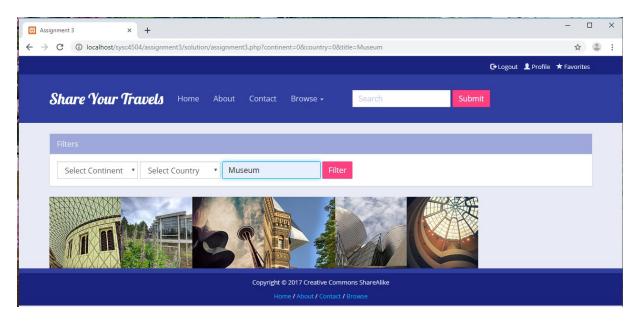
Initially, display every image (use the version from the square-medium folder) in the imagedetails table. The Path field contains the filename of the image. Each image should be a link to detail.php with the ImageID field passed as a query string. For the purposes of this assignment, we won't have an actual implementation of detail.php. The textbook describes a possible implementation of such a page as part of Project 2 in Chapter 12, but we will ignore this for this assignment. When a user hovers over an image, the Title field should be displayed (as shown in the screenshot for the rightmost picture in the top row), when the user actually selects/clicks on an image, an error will occur. If you implemented that part, the page will look similar to the screenshot below (showing only the top part).



- 2. The filter section near the top of the page intended to filter/reduce the number of images displayed in the image list. The user should be able to display only those images from a specific continent, country, or images whose Title field contains a search word, after the user clicks the Filter button.
- 3. Display every record from continents within the <select> list that appears in the filter section. Each <option> element should display the ContinentName field, the ContinentCode field should be used for option values.
- 4. For the Countries <select> list, display only those countries that have a matching record in imagedetails. This will require an INNER JOIN along with a GROUP BY. Again, the <option> element should display the CountryName, the option value should be the value from the ISO field. The image below shows the complete <select> list, given the information in the database. Also note that, based on these definitions, a user may choose a continent that will have no matching entries in the database, but this will not be possible when filtering on a country.



5. When the user clicks the Filter button, the page should display ONLY those images whose CountryCodeISO or ContinentCode or Title fields match the specific value in the filter area. For the Title field, match any record records whose Title field contains whatever was entered into the search box (you have to use SQL Like along with wildcards characters to achieve that in your query). The image below shows the result on filtering the Title on the word Museum. If nothing is specified for any of the three filter criteria, the page should display all images in the database.



Submission Requirements

Submit your assignment using cuLearn, under Assignment 3 Submission for the course. Create a ZIP archive of all files that make up your solution, including the files we provided. Once the TAs unzip your submission, they should simply be able to open assignment3.php with a browser of their choice to test your submission. DO NOT submit your solution as a RAR or any other form of archive, nor submit individual files.

Marks will be based on:

- Completeness of your submission
- Correct solution to the problem
- Adhering to the submission requirements

The due date is based on the time of the cuLearn server and will be strictly enforced. If you are concerned about missing the deadline: multiple submissions are allowed. So you can always submit a (partial) solution early, and resubmit an improved solution later. This way, you will reduce the risk of running late, for whatever reason (slow computers/networks, unsynchronized clocks, failure of the Internet connection at home, etc.).

In cuLearn, you can manage the submission until the deadline, taking it back, deleting/adding files, etc, and resubmitting it. The system also provides online feedback whether you submitted something for an assignment. It may take a while to learn the submission process, so I would encourage you to experiment with it early and contact the TA in case you have problems, as only assignments properly and timely submitted will be marked and will earn you assignment credits.