

WP 2

Project #1: Data-Driven PHP

Due by 11:59pm Feb 15, 2018

In this project the references to material in the textbook are to the 2nd edition of the textbook.

Overview

This assignment provides an opportunity for you to demonstrate your ability to generate dynamic web pages from file content using PHP. In this assignment you will be working with the Travel Photo case study from the textbook. You will be building upon the visual design used in Chapter 11, Project 3 and Chapter 12, Project 2.

Submitting

Submit under Learn:

- 1) ALL the url of the pages created by you. The links MUST be:
 - a. written in the text submission area and NOT in the comment area
 - b. written one per line with no other words preceding or following the link, and
 - c. linked to the page (hyperlink).
- 2) ALL the .php files you have created zipped in a folder named Proj1_yourlogin (e.g., Proj1_aguercio).

You will lose marks if you do not follow these submission instructions.

Grading

The grade for this assignment will be broken down as follows:

Visual Design and Styling	10%
Programming Design	20%
Functionality (follows requirements)	70%

Data Files

You have been provided with several semicolon-delimited text files: `continents.txt`, `countries.txt`, `cities.txt`, and `photos.txt`.

The fields in `continents.txt` are continent code and continent name.

The fields in `countries.txt` are country code, country name, capital city, capital city code [ignore], area (sq km), population, continent, currency name.

The fields in `cities.txt` are city code, city name, country code, latitude, longitude, plus additional fields you can ignore.

The fields in `photos.txt` are image id, path of image, title, description, latitude, longitude, city code, country code, user name.

Various image files have also been provided for you.

Requirements

This assignment consists of 6 pages with the following functionality:

1. You must make use of the Bootstrap CSS Framework (<http://getbootstrap.com/>) to style and layout your pages. While this framework does have a little bit of a learning curve, you will find that it makes your life as a web developer significantly easier since you will be able to concentrate on programming and let Bootstrap handle the CSS. Look at the examples on the Bootstrap web site to help you understand how to make use of it. You will be using Bootstrap on the other assignments this semester so you might as well start learning/reviewing it now.
2. You will be using the same design as Chapter 11, project 3 and Chapter 12, project 2, so your aim in this assignment is to make sure the rest of your pages “fit” with this design. For convenience, all the material relative to the completion of Ch11, project 3 and Ch12 project 2 has been added to this project.
3. The about page must be named `about.php`. This about page must specify that this site is an assignment for Some Class, your name, and the date, and be accessible via the About link in the header and footer [worth 4 marks].
4. The site **must** use a single CSS file for any additional text and color formatting. [visual design worth 10 marks]
5. All pages **must** have six links: to `index.php`, `about.php`, `travel-image.php?id=46`, `browse-images.php`, `country.php?country=CA`, and `upload.php` pages. Add these links to the Browse submenu in the header. [worth 3 marks]
6. The home page **must** be named `index.php`. This home page must contain a Bootstrap carousel (in Javascript section of documentation) with each slide of the carousel having the same links as indicated in requirement #5. Each slide in the carousel should have captions. You can use whatever image you’d like for the carousel slides. [worth 5 marks].

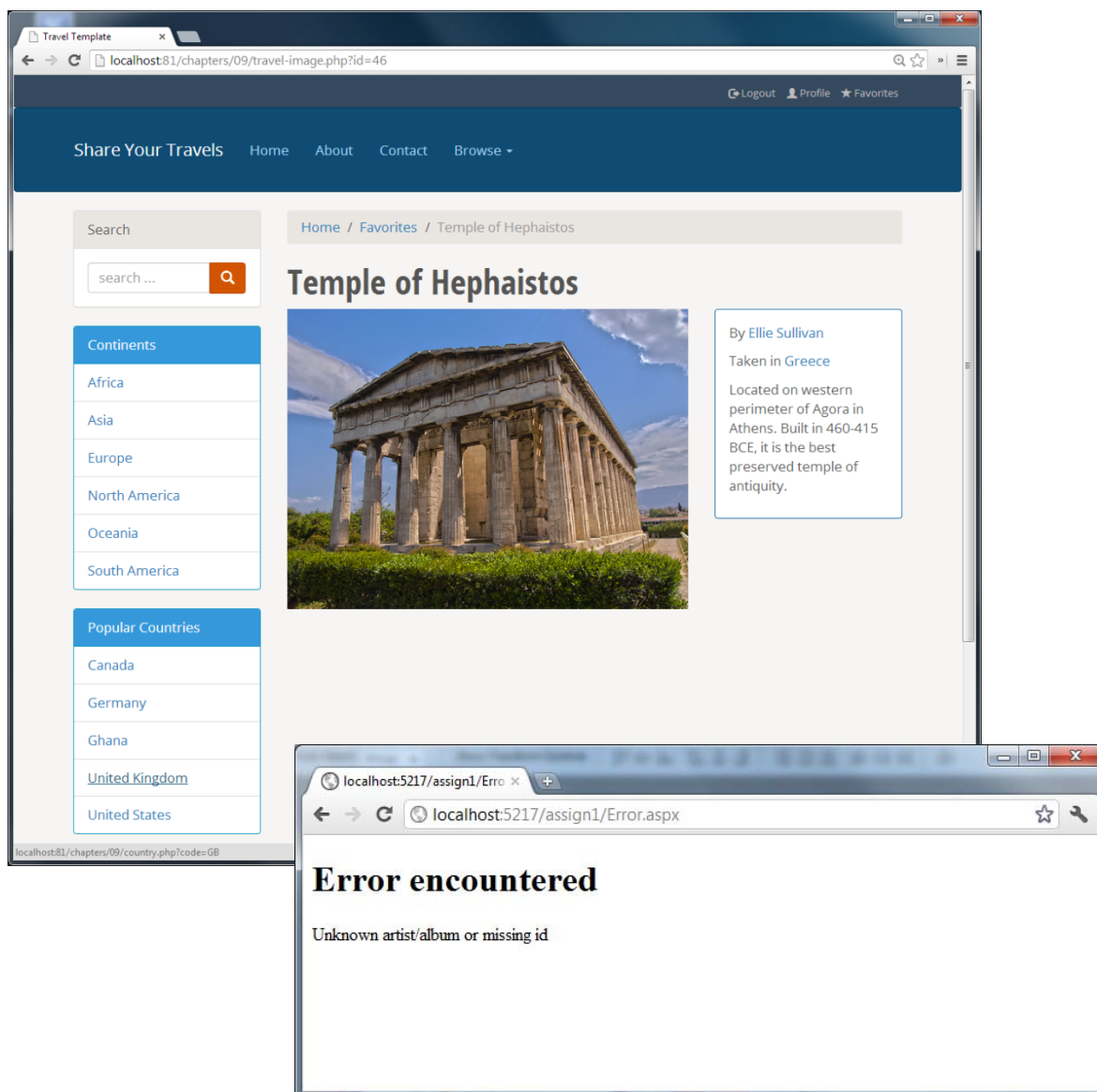
I would also strongly recommend creating the following pages in the order provided below.

7. This page must be named `travel-image.php`. It must display the information about a single travel image (specified via the `id` passed in via a query string parameter). Its design and functionality is based on Chapter 12, project 2. In this assignment, the information that is displayed here must be pulled from the relevant data files.

The image must be a link to the large version. Use the Bootstrap Modal dialog (in Javascript section of documentation) to display the larger version.

Notice the sort order of the continents and countries lists; see the description for `browse-images.php` page for information about the construction of the Continents and Countries links as well as for the search form.

This page should handle a missing or invalid query string `id` parameter by redirecting to a page called `error.php` (don't worry about styling this error page). [worth 8 marks]

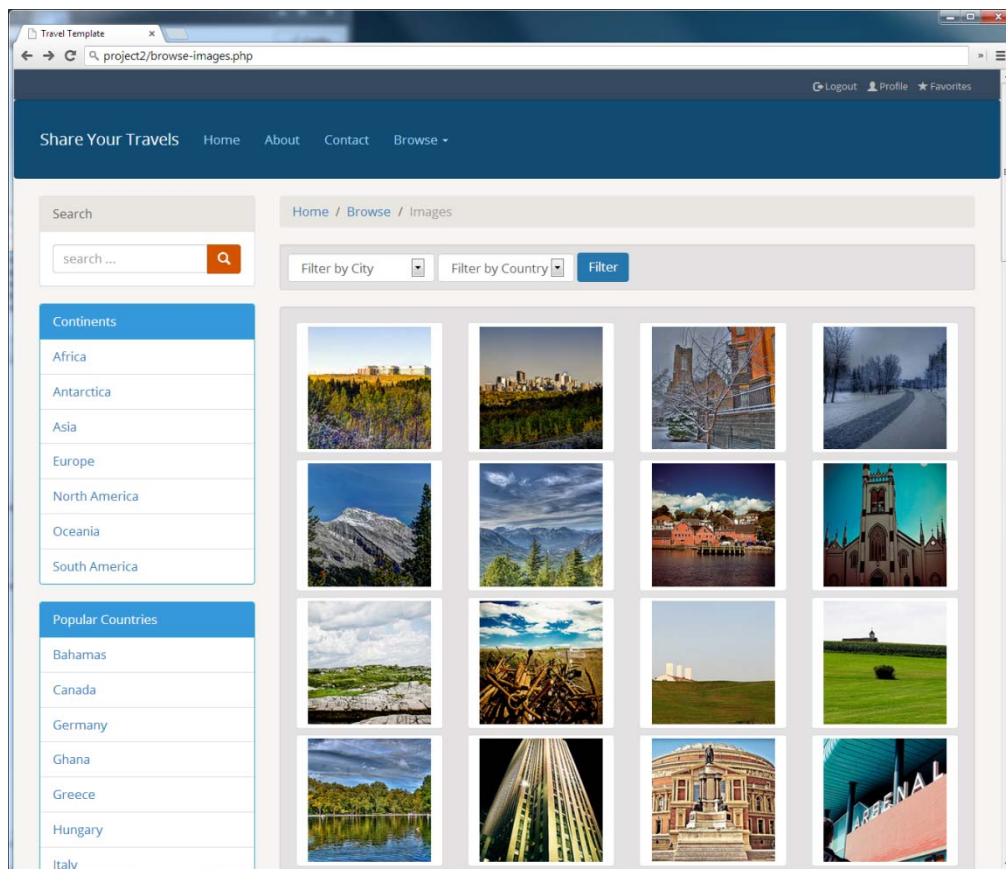


8. This page must be named `browse-images.php`. This page displays multiple travel images. Each of the images shown must be links with the appropriate query string to the `travel-image.php` page.

Initially, this page must display all the travel images in the data file. The user should be able to filter the list by specifying the country or city in a drop-down list (these lists should be populated from the relevant data files). Since the user can select any of the two filters it is possible to select a combination for which there are no matching photos (e.g., `country=Canada AND city=Rome`). When there are no matches, be sure to let the user know in a user-friendly manner. Use the GET method for this form.

The search box here (and on the other pages) provides an alternative way to filter the travel images. That is, the search box allows the user to filter the images by their title. Your page should show any matching images whose title contains all of the search text specified by the user. For instance, on the previous page, the title of the image is "Temple of Hephaistos". If the user searched for "Temp" or "Hep" or "ple of" then all three would match "Temple of Hephaistos". The search form must use the POST method.

The links in the Continents list provide another way to filter the list: that is, clicking on a continent will display the travel images from that continent. Note: some of the continents have no images. The links in the Country list should take the user to the `country.php` page. [worth 20 marks]



9. This page must be named `country.php`. This page will display all the information about the country specified by the query string. It should also display a list of all the travel images for that country, with each image being a link to `travel-image.php`.

This page should handle a missing or invalid querystring `id` parameter. [worth 10 marks]

10. This page must be named `upload.php`. It must provide users with a way to upload their own travel images. The page must look very similar to the form shown in [Chapter 4, Project 3 \(i.e., page 169\)](#) except it should be integrated into the basic Bootstrap design used in the rest of your assignment and that it should have a file upload area. Assume that the user can only upload a single file.

Clicking the Submit button of the form will upload the file and display the user-entered form information (plus the image) in a nicely-formatted manner. Your page must only allow the uploading of JPG or PNG files. Your uploaded files must be placed within a folder called `user-uploads` within your assignment. Note: you won't be saving the uploaded information in a file, just redisplaying it. [worth 15 marks]

Preliminary Marking Guide WP2 Assignment #1

/ 10	Visual Design and Styling <ul style="list-style-type: none"> - Text and Color Formatting + CSS usage + consistency - Used Bootstrap appropriately - All pages follow same visual design
/ 20	Programming Design and Styling <ul style="list-style-type: none"> - reduces markup and code duplication - minimizes code in the markup
/ 12	Navigation and Home and About pages <ul style="list-style-type: none"> - correct links + appropriate content
/ 8	travel-image.php <ul style="list-style-type: none"> - correct data, hyperlink with proper querystring id - uses modal dialog - handle querystring errors
/ 25	browse-images.php <ul style="list-style-type: none"> - show images with appropriate links - filtering works properly
/ 10	country.php <ul style="list-style-type: none"> - correct data - handle querystring errors - list of travel images for that country
/ 15	upload.php <ul style="list-style-type: none"> - correct form data - only upload images - redisplay form data
<hr/>	
/ 100	Total Mark