

# Web Programming 2

## Project #2: Database-Driven Web Pages

**Due by 11:59pm March 19, 2019**

### ***Overview***

This assignment provides an opportunity for you to demonstrate your ability to generate web pages from database content.

### ***Submitting***

Submit under Learn:

- 1) ALL the url of the pages created by you on webdev-stark webserver. 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.

If you are doing your project on your local machine, you must set up an appointment for grading, unless you run your local machine as a webserver 24/7. In that case provide the URLs of your pages wherever they are hosted.

### ***Grading***

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

Visual Design and Styling	15%
Functionality (follows requirements)	80%

The preliminary Marking Guide is available at the bottom of this assignment.

### ***Database***

In this assignment you will be provided with a database containing information for a travel photo site.

### ***Database Schema***

While the database contains quite a few tables, this assignment will only make use of travel images, travel posts, cities, countries, continents, and users. Some linking tables are also used. Note that some of the tables are broken into two tables with one-to-one relationships.

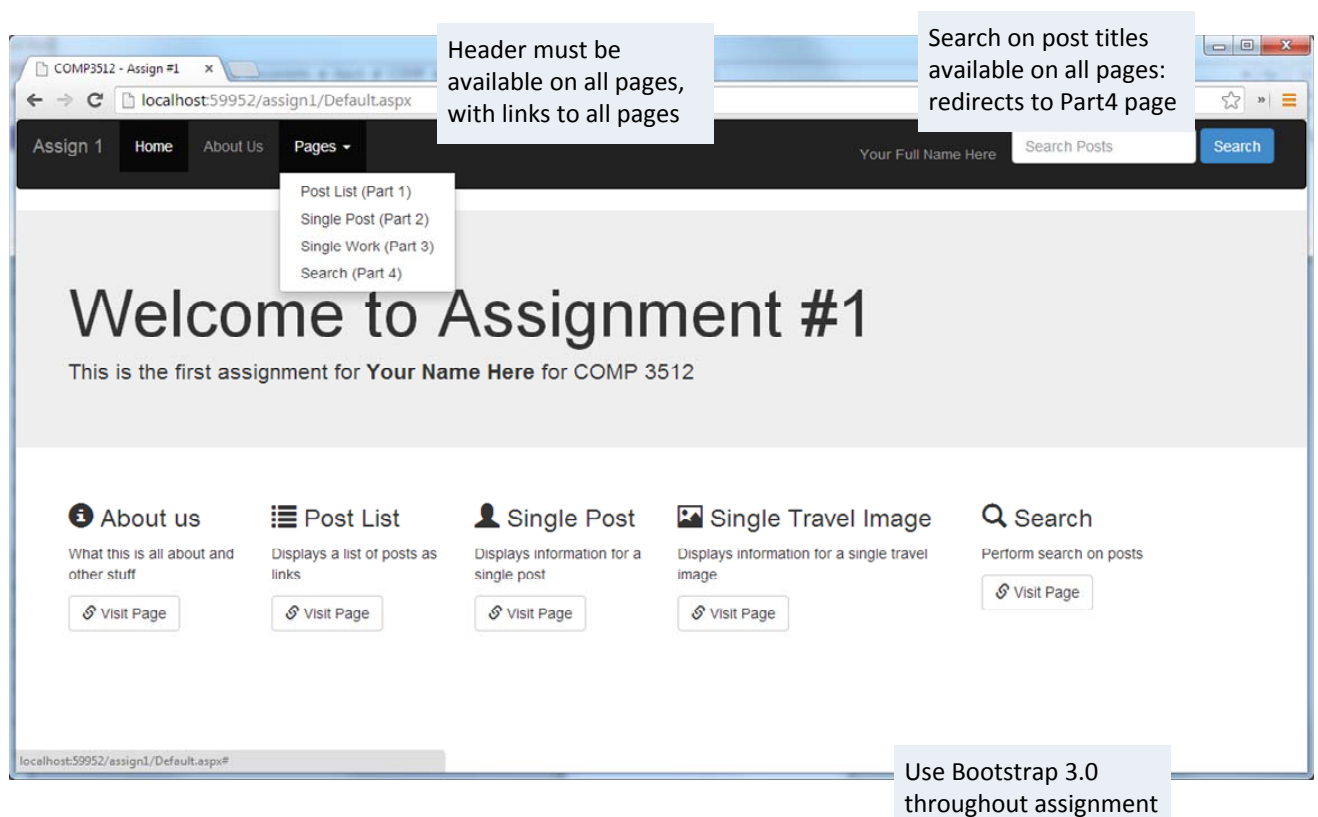
### ***Requirements***

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

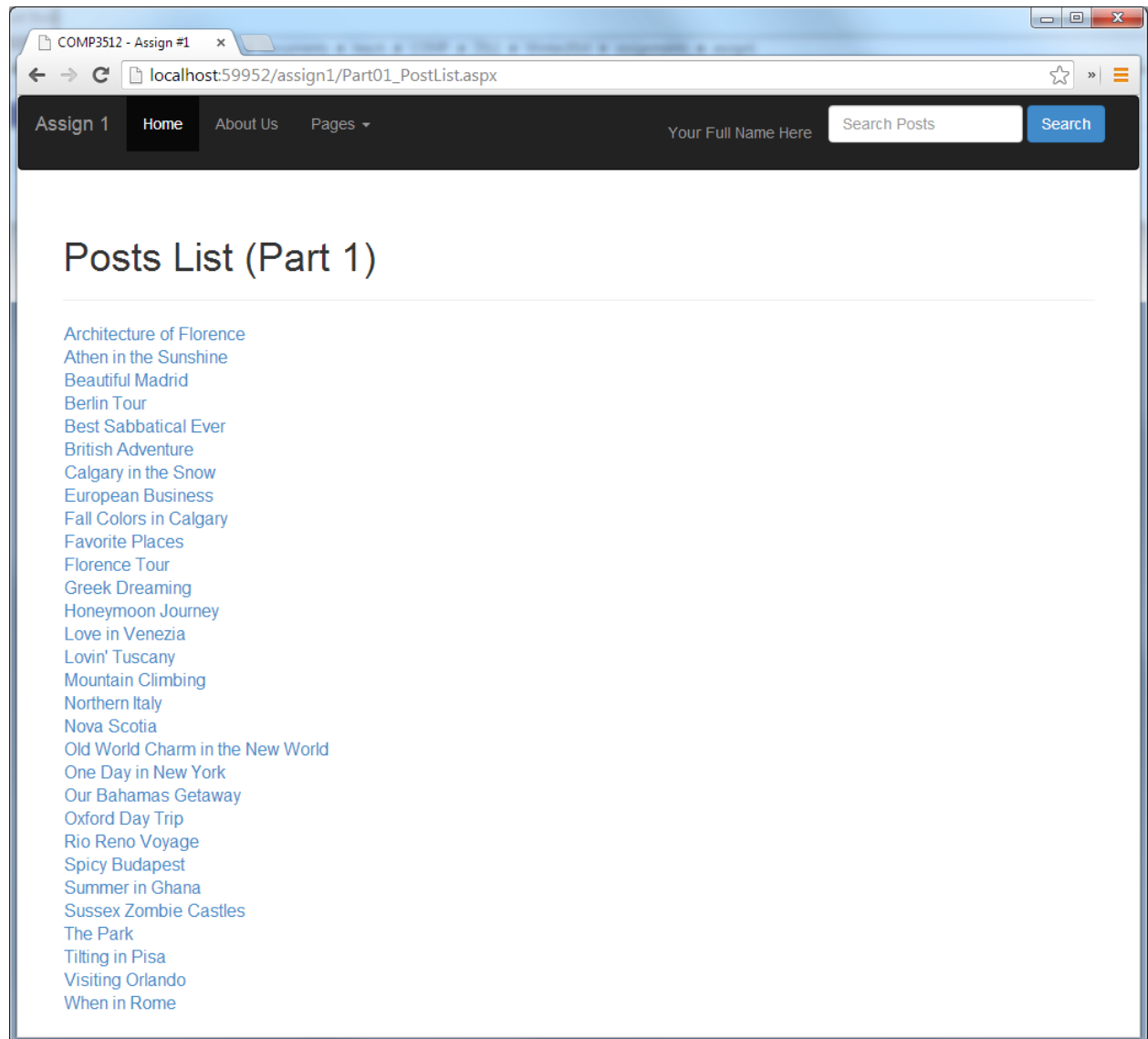
concentrate on programming and let Bootstrap handle the CSS. Look at the examples on the Bootstrap web site to help you understand how to make use of it. You will be using Bootstrap on the other assignments this semester so you might as well start learning it now.

2. The about page must be named `about.php`. This about page must specify that this site is an assignment for Web 2, your name, and the date [worth 4 marks]
3. The site **must** use a single CSS file for any additional text and color formatting. Though it is optional, you may find using Master Pages (chapter 6) helpful though not essential. [visual design worth 15 marks]
4. All pages must have six links: to `Default.aspx`, `AboutUs.php`, `Part01_PostList.php`, `Part02_SinglePost.php?id=20`, `Part03_SingleImage.php?id=53`, `Part04_Search.php` pages. [worth 6 marks]
5. The home page **must** be named `index.php`. This home page must contain additional links to the pages as shown below:



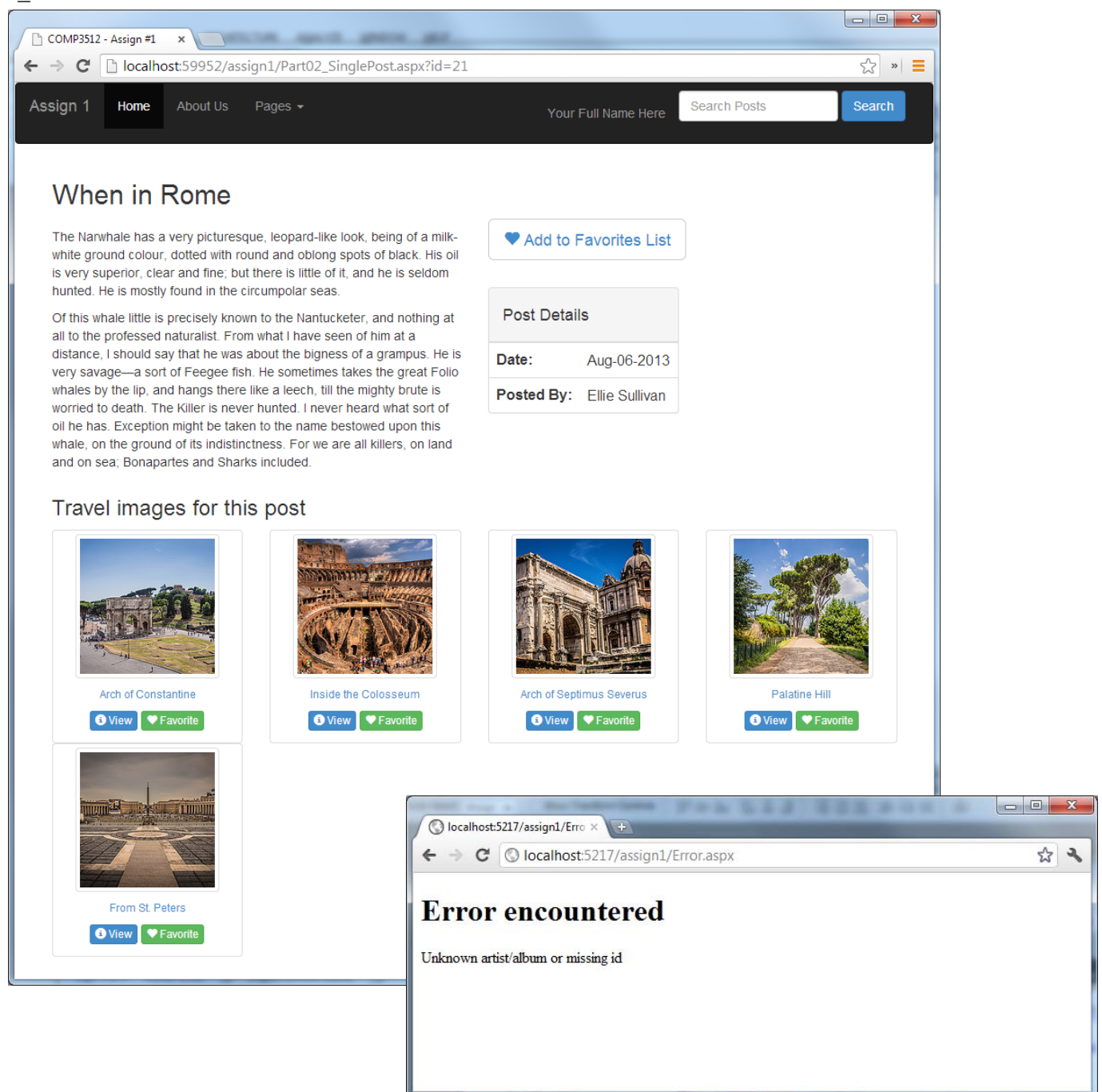
I would also strongly recommend creating the following pages in the order provided below.

6. This page must be named `Part01_PostList.php`. It must display a list of posts (from the `TravelPost` table) that should look like that shown below. Notice the sort order. Each post should also be a hyperlink to `Part02_SinglePost.php` with a `querystring` parameter `id` which is equal to the `id` of the post. [worth 6 marks]



7. This page must be named `Part02_SinglePost.php`. This page displays information from the `TravelPost`, `TravelUserDetails` tables for a single post (specified via the `posid` passed in via a `querystring` parameter). This page should handle a missing or invalid `querystring id` parameters by redirecting to a page called `Error.php`.

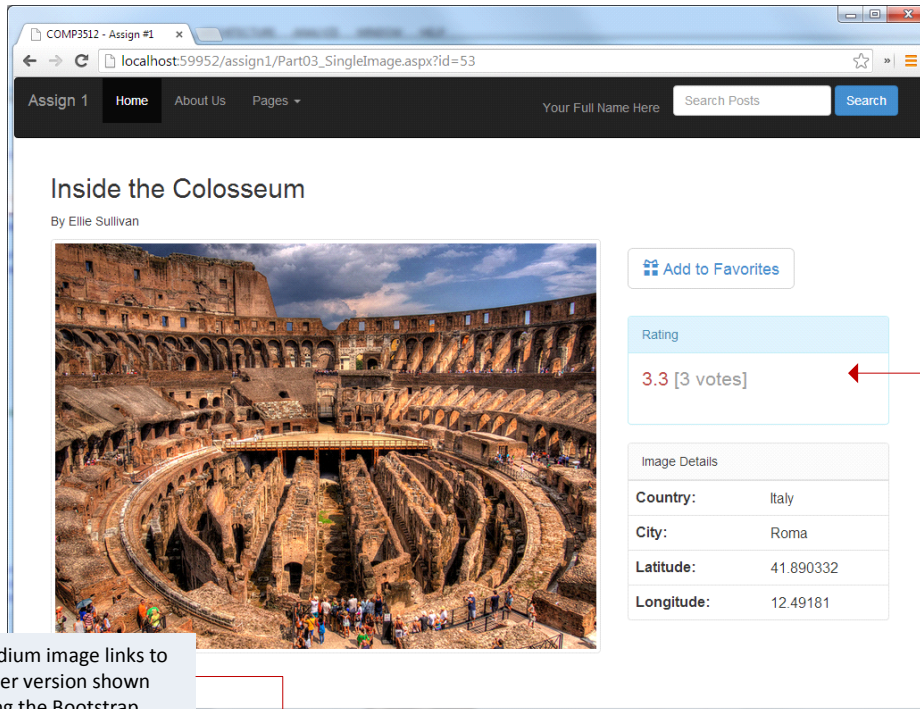
The image's thumbnail, title, and the View button must be links for that image to `Part03_SingleImage.php`. [worth 17 marks]



8. This page must be named `Part03_SingleImage.php`. This page displays information from a variety of tables for a single image (specified via the image id passed in via a querystring parameter). You must display the image information (hint: remember that SQL allows you to join information from multiple tables).

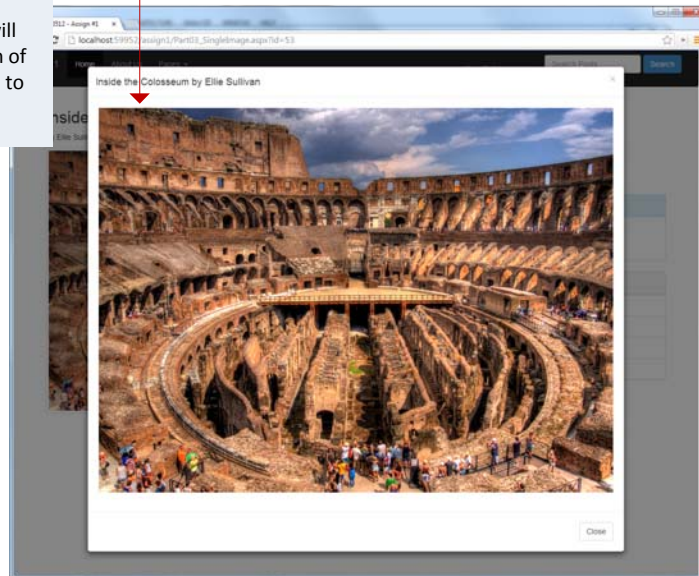
The image must be a link to the large version. Use the Bootstrap Modal dialog (in Javascript section of documentation) to display the larger version.

Like with `Part02_SinglePost.php` this page should handle a missing or invalid querystring id parameter. [worth 22 marks]



Average rating  
(note # of  
decimal places)

Medium image links to  
larger version shown  
using the Bootstrap  
modal dialog. You will  
have to adjust width of  
the modal using CSS to  
fit the larger image.



9. This page must be named `Part04_Search.php`. It must use a `Repeater` or `ListView` control to display post information (from the `TravelPost` table) that should look like that shown below. If the page is requested via a link, it should at first display only the filtering criteria. Notice that you will have to hide/show textboxes depending upon the state of the radio buttons. If the user has typed in a value in the search box in the header on any page, then it should redirect to this page using a query string, and perform a filter by Title for the query string value.

Both title and message searches should use the SQL `LIKE` operator with wildcards so that it matches any occurrence of the search string. When the user presses the Filter button, then display the title and the message for any matching posts. The title must be a link to `Part02_SinglePost.php` for that post.

If user does a filter by description, then highlight in yellow the search field in the resulting description. [worth 30 marks]



When requested by link, just display filter options

Search Results

Filter by Title:

Filter by Message:

No Filter (show all posts):

Filter

When requested via search box in menu, perform a filter by title

Search Results

Filter by Title:

new

Filter by Message:

No Filter (show all posts):

Filter

title should be appropriate links to Part02\_SinglePost.aspx

One Day in New York

After my last conference, I had time for a quick one day tour of New York. I decided to focus on a pretty small area, in my case, midtown New York around Central Park and the Rockefeller Center. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus hendrerit. Pellentesque aliquet nibh nec urna. In nisi neque, aliquet vel, dapibus id, mattis vel, nisi. Sed pretium, ligula sollicitudin laoreet viverra, tortor libero sodales leo, eget blandit nunc tortor eu nibh. Nullam mollis. Ut justo. Suspendisse potenti.

Sed egestas, ante et vulputate volutpat, eros pede semper est, vitae luctus metus libero eu augue. Morbi purus libero, faucibus adipiscing, commodo quis, gravida id, est. Sed lectus. Praesent elementum hendrerit tortor. Sed semper lorem at felis. Vestibulum volutpat, lacus a ultrices sagittis, mi neque euismod dui, eu pulvinar nunc sapien ornare nisi. Phasellus pede arcu, dapibus eu, fermentum et, dapibus sed, urna.

Old World Charm in the New World

A wonderful serenity has taken possession of my entire soul, like these sweet mornings of spring which I enjoy with my whole heart. I am alone, and feel the charm of existence in this spot, which was created for the bliss of souls like mine. I am so happy, my dear friend, so absorbed in the exquisite sense of mere tranquil existence, that I neglect my talents.

Search

Filter by Title:

Filter by Message:

wonderful

No Filter (show all posts):

Filter

Filter by message should search for matches in message field and highlight all occurrences

Fall Colors in Calgary

As part of John and I's journey across Canada, we found a spot which lies less than an hour's drive from the mountains. The weather was tremendous. Fall colors had blanketed the Edworthy Park in Calgary. This park is on the western edge of the city and is surrounded by old-growth forests.

Evidently the park used to be part of a ranch with cows and horses. While we didn't see any domestic animals, there were a variety of wonderful trails meandering through the hills, from which I snapped these photos.

Summer in Ghana

A wonderful serenity has taken possession of my entire soul, like these sweet mornings of spring which I enjoy with my whole heart. I am alone, and feel the charm of existence in this spot, which was created for the bliss of souls like mine. I am so happy, my dear friend, so absorbed in the exquisite sense of mere tranquil existence, that I neglect my talents. I should be incapable of drawing a single stroke at the present moment; and yet I feel that I never was a greater artist than now.

## Preliminary Marking Guide - Web Programming 2 Project #2

/ 15	<b>Visual Design and Styling</b> <ul style="list-style-type: none"> <li>- Text and Color Formatting + CSS usage + consistency</li> <li>- Used Bootstrap appropriately</li> <li>- Layout accurate Part01</li> <li>- Layout accurate Part02</li> <li>- Layout accurate Part03</li> <li>- Layout accurate Part04</li> </ul>
/ 10	<b>Home and About Page</b> <ul style="list-style-type: none"> <li>- correct links + appropriate content</li> <li>- link to home page on each page</li> </ul>
/ 6	<b>Part01_PostList.php</b> <ul style="list-style-type: none"> <li>- hyperlink with proper querystring id</li> </ul>
/ 17	<b>Part02_SinglePost.php</b> <ul style="list-style-type: none"> <li>- correct post data</li> <li>- handle querystring errors</li> <li>- show images for post with appropriate links</li> </ul>
/ 22	<b>Part03_SingleImage.php</b> <ul style="list-style-type: none"> <li>- correct image, user, city, and country data</li> <li>- Correct rating, # ratings, formatting</li> <li>- handle querystring errors</li> <li>- Use modal dialog to show larger image with correct size</li> </ul>
/ 30	<b>Part04_Search.php</b> <ul style="list-style-type: none"> <li>- Data controls</li> <li>- Filtering</li> <li>- hide/show fields</li> <li>- highlight search term in message</li> <li>- Proper data</li> <li>- search in header works on all pages</li> </ul>

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/ 100	Total Mark
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