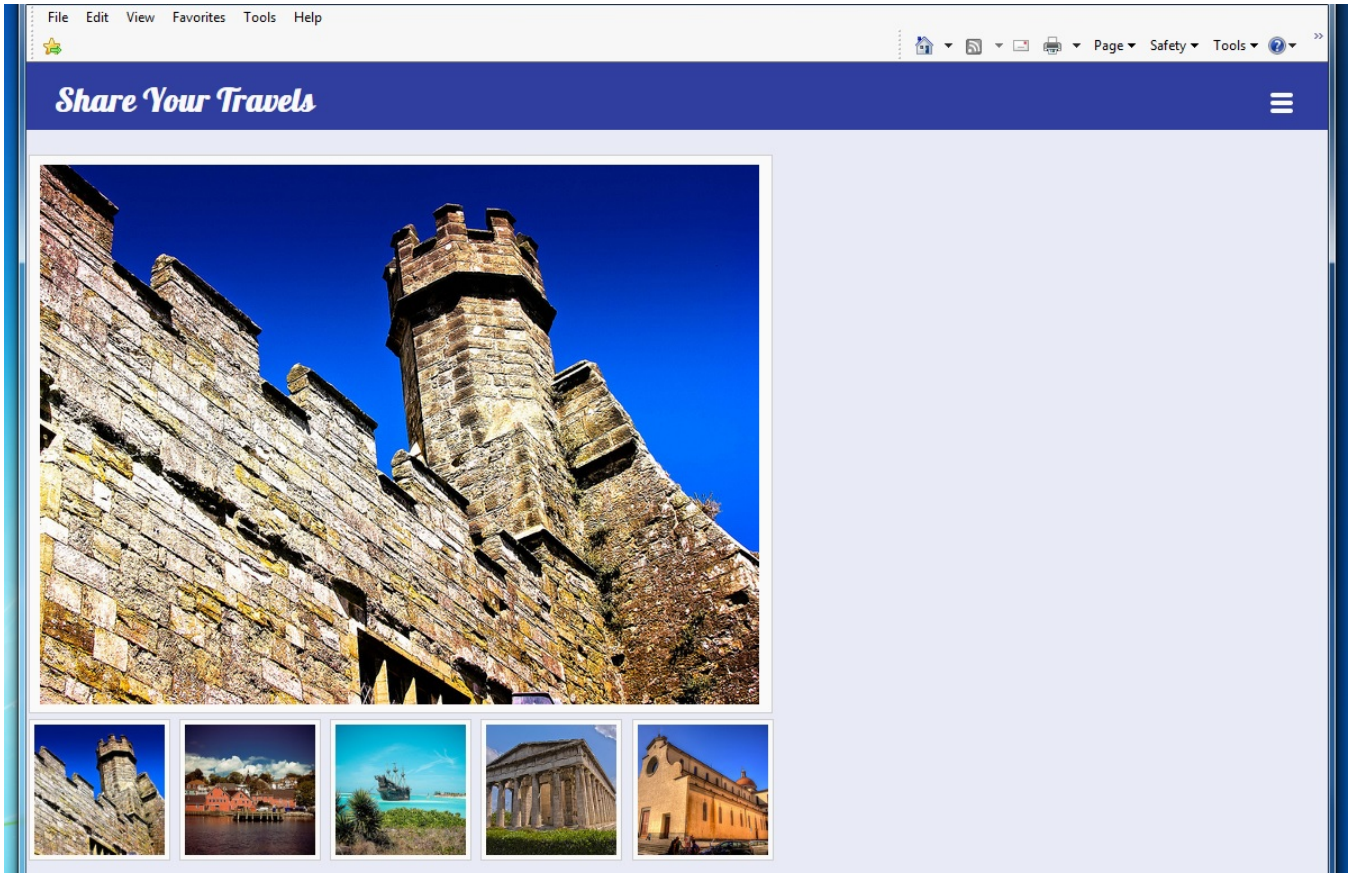
SYSC 4504: Fundamentals of Web Development
Programming Assignment 2:
JavaScript, DOM and Event Listeners
Due: November 14, noon

Assignment Description

Design a webpage that looks, as much as possible, identical to the one below. It displays a range of pictures, one larger-sized one, and 5 smaller ones below. The images can be downloaded in both sizes from the associated ZIP folder. Name the HTML document `assignment2.html`, any styling you want to define should go into `assignment2.css`. You should assume that the images will be in a subfolder named `images`, with the directory structure that the ZIP file maintained. The large picture should be displayed within a `<figure>` element, which is not necessarily the case for the smaller (thumbnail) images.

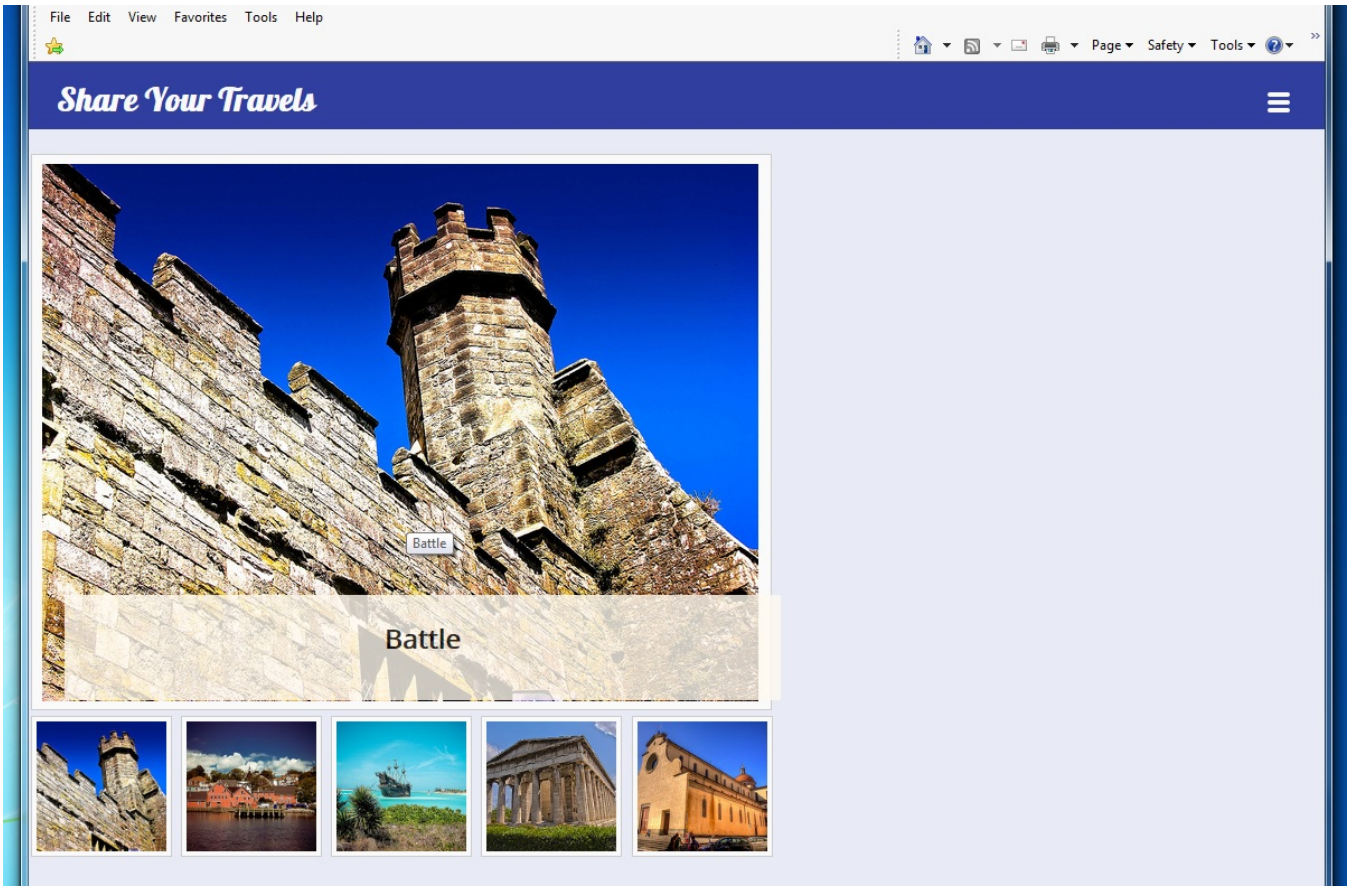


This assignment will exercise your ability to use the DOM and to handle events.

- Add event handlers to the thumbnails (smaller images) and to the larger image, as described below.
- All event handlers must execute ONLY after the page has loaded.
- The event handler for the thumbnails is a `click` event handler. When the smaller image is clicked, your code will show the corresponding larger image in the space above the thumbnails. You should also set

the `<figcaption>` text of the `<figure>` element containing the large image, using the clicked image's `title` attribute.

- Add event handlers to the `mouseover` and `mouseout` events of the `<figure>` element. When the user moves the mouse over the larger image, the caption will appear, similar to the image shown below. When the user moves the mouse out of the figure, the caption will disappear. There are many different ways to achieve that effect, one is to make use of overlapping images and opacity.



Submission Requirements

Submit your assignment using `cuLearn`. You should submit only a single HTML document, which you should call `assignment2.html`, a single style sheet named `assignment2.css`, and a single file with JavasScript code called `assignment2.js`. You can assume that the image folder already exists in the right location when the TA tests the submission.

Marks will be based on:

- Completeness of your submission
- Correct solution to the problem
- Adhering to the submission requirements
- Proper comments in the JavaScript code.

The due date is based on the time of the `cuLearn` server and will be strictly enforced. See earlier comments on the Assignment 1 handout about how to avoid missing the deadline completely.