**Web Programming Languages – Assignment 2**

**Due Date:** October 15, 2021

In this project, you will build a photo gallery using jQuery for your travel photo sharing site.

A picture containing text, screenshot, different

Description automatically generated

**Requirements**

When the document is loaded, you will make an AJAX call, download the data.json file (it contains an array of image objects) and display images on your html page. When the user hovers over the image, you will show the larger version of the image along with the caption. For pop-up window that shows larger image, you will use Bootstrap’s modal component.

<https://getbootstrap.com/docs/5.1/components/modal/>

See instructions for details.

**Instructions**

1. The images are supplied in two folders: images/square (for the gallery) and images/medium (for the popup window).
2. Download data.json by using AJAX and loop through the images array and using appropriate jQuery DOM methods, add <img> tags to main content area to build an image gallery. The image filenames are contained in the path property of each image object. Set the alt attribute of each <img> to the title property of the image object.
3. Use jQuery to attach handlers for the mouseenter, mouseleave, and mousemove events of the square images in the gallery.
4. For the mouseenter event, use jQuery to add the “gray” class to the square <img> under the mouse. You will define “gray” class and set the filter property to grayscale(). Hint: remember that $(this) within an event handler references the DOM object that generated the event.
5. Also for the mouseenter event, use jQuery to generate a modal. Within that modal add an <img> element that displays the larger version of the image. Underneath that <img> add a <p> element for the caption (image title, city and date taken). The alt attribute of the square image under the mouse contains the image title.
6. You will need to use jQuery to set the left and top CSS properties for the modal (and use absolute positioning). You can retrieve the x, y coordinates (via the pageX and pageY properties) of the current mouse position from the event object that is passed to your event handler. You can calculate the new position by offsetting by some amount from the mouse x, y position.
7. For the mouseleave event, remove the “gray” class from the square image under the mouse. Also remove the modal.
8. For the mousemove event, simply set the left and top CSS properties for the modal using the same approach as described in step 6.

**Deliverables**:

Screenshot of the results

HTML, CSS and JS files

Zip your files into a single file and name it as HW2-yournetid.zip.