

CPSC1520 – JavaScript 1 Assignment 1: Photo Tagging Gallery [10%]

Introduction

This assignment builds on what you have already learned and demonstrated in class through the exercises and assessments to this point (i.e. up to and including event listeners and decisions). You are responsible for adding the JavaScript that will bring this simple page to life.

Overview

The job is simple; the purpose of the page is to allow a user to update any image in their gallery with any number of relevant tags. In this case, the gallery contains only three images (but it should be able to contain any number of images), each of which can have unique tags applied to it. There is a simple form the user will use to add tags for the currently selected image.

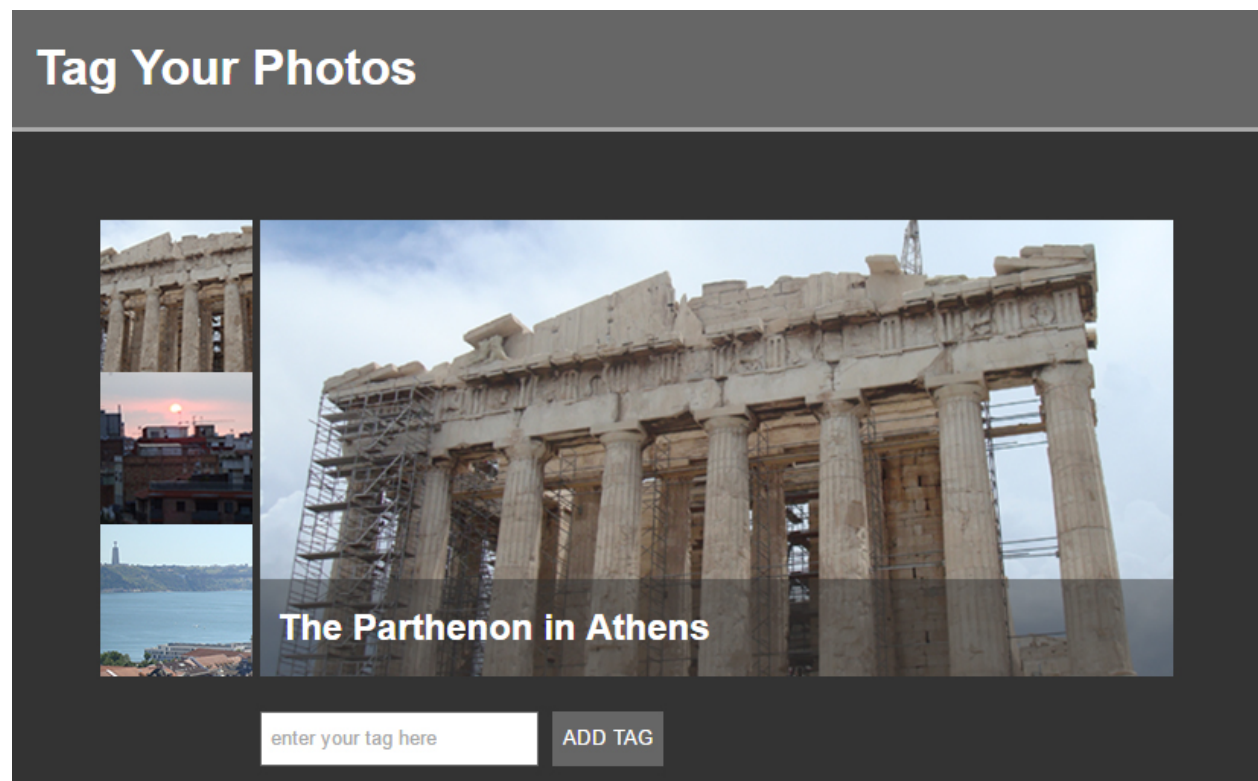


Figure 1. User interface for the assignment

The user will be able to select an image from the list of available thumbnails. When a thumbnail is selected (i.e. clicked), the full size version of the thumbnail should be loaded in the editor image element (i.e. use the src, alt, and title attributes of the thumbnail that was clicked to set the corresponding attributes on the full size image), the title should appear in the editor title element, and any added tags should be displayed in the editor tags element.

This assignment requires you to familiarize yourself with the use of html5 data attributes. For each tag that is successfully added you must not only display the tag on the page in the tags element, but also update the **data-tags** attribute of the corresponding thumbnail image so that tags can be saved. You can read more about html5 data attributes [here](#)¹.

Tag Your Photos

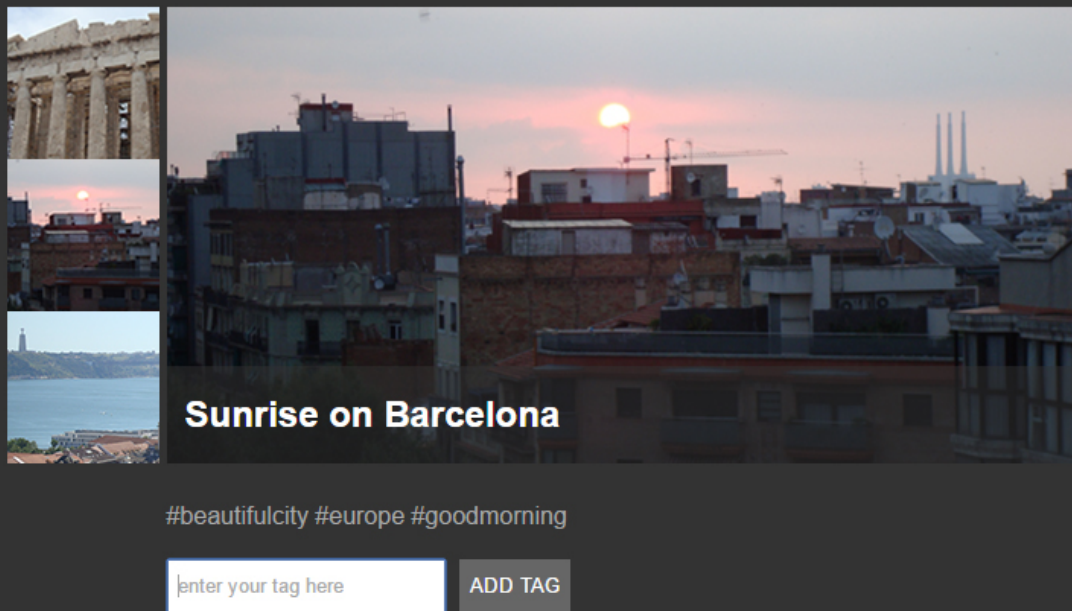


Figure 2. Display of an image that has tags added

Required Tasks

The following is a list of requirements for this assignment:

- An event listener is required for handling the clicking of thumbnails and loading the required image information
 - There are several ways this can be done, try to be as efficient as possible
 - The title, alt, and data-tags attribute values of the clicked thumbnail must be properly applied to the editor display elements
- An event listener is required for handling the submission of the tag form
 - Ensure proper validation of tag values before adding them to the image
 - Tags cannot contain spaces
 - Tags cannot be empty
 - If an invalid tag is submitted, display an error message in the error tag of the editor
- Pay careful attention to the user experience and aesthetic (e.g. when an error message should be visible vs. when it should be reset, spaces between tags, hash sign on tags, etc.)
- **Do not alter the HTML!** You are only required to create the necessary JavaScript for the solution
- If you are unsure of any of the requirements, **be sure to ask your instructor for clarification.**
 - It is your responsibility to seek clarification, do not make assumptions

References

1. https://developer.mozilla.org/en-US/docs/Learn/HTML/Howto/Use_data_attributes

Marking Key

Tasks	Grade	Marks	Total
Thumbnail Event Listener <ul style="list-style-type: none">• Event listener added• Loads appropriate data• Tracks currently selected thumbnail		1 5 1	
Tag Form Event Listener <ul style="list-style-type: none">• Event listener added; submitting form doesn't reload page• Newly added tags are displayed correctly and in the right place		1 3	
Form Validation <ul style="list-style-type: none">• Checks for spaces and empty values• Displays proper message for invalid tag values• Remove error message and tag value when appropriate		1 1 3	
Tag Management <ul style="list-style-type: none">• Tags are 'cleaned up' when appropriate• Tags are properly stored in the data-tags attribute of each thumbnail; previously saved tags are displayed correctly		1 3	
Code Formatting and Style		-3	

Comments	SCORE	GRADE
	20	

Marking Rubric

Marks	5 Marks Criteria
5	Task was completed with the highest of proficiency adhering to best practices and followed subject matter guidelines all tasks were completed to a professional standard.
4	Task was completed well some minor mistakes. Well above average work shows good understanding of the task and high degree of competence
3	Satisfactory work some features missing or incorrectly implemented. Show a moderate level of understanding in the task with room for improvement.
2	Below average work. Task was poorly complete. Show understanding of the task and the requirements to implement but implementation was poorly executed.
1	Some of the task was completed. Showed a lack of understanding in the subject matter and very poorly executed
0	Not completed.

Marks	3 Marks Criteria
3	Proficient shows a high degree of competence in completing task.
2	Capable above average degree of competence in completing task
1	Satisfactory shows a satisfactory degree of competence in completing task.
0	Shows a limited degree of competence in completing task.

Marks	1 Marks Criteria
1	Task Completed satisfactorily
0	Task was not