

CPSC1520 – JavaScript 1 Assignment 2: Photo Gallery Filter [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 loops, node lists, and arrays). You are responsible for adding the JavaScript that will bring this simple page to life.

Overview

For this assignment, you are required to implement the filtering functionality for the image gallery thumbnails. A user must have the ability to filter the display of current thumbnails by matched photo tags.

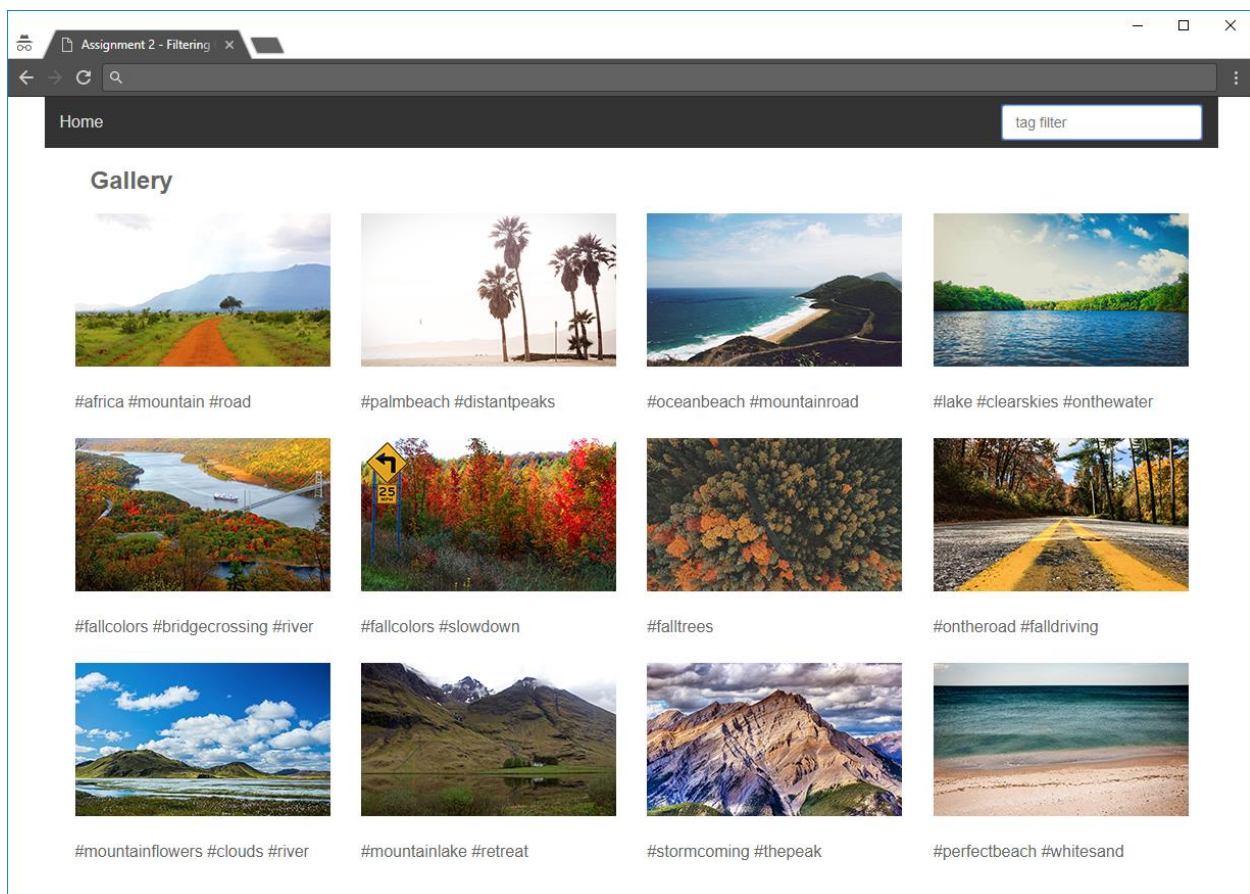


Figure 1. Initial user interface for the assignment

The user will be able to enter any partial search text in the filter textbox and have the page automatically update the display (with each key press) to only display photo thumbnails that have a partial match for any associated tags. With each key press, any photos that do not have a partial match of the text must be hidden from the display; use the included *hidden* CSS class to hide/unhide elements.

When there is a value present in the filter control, the *reset* link must become visible. Clicking the reset link should clear the filter, all thumbnails should become visible, and the reset link should become hidden again. Your solution must take into account that there may be any number of thumbnails currently in

the gallery. You will need to implement an event handler for a new type of event: **input**. You can read more about the input event [here](#)¹.

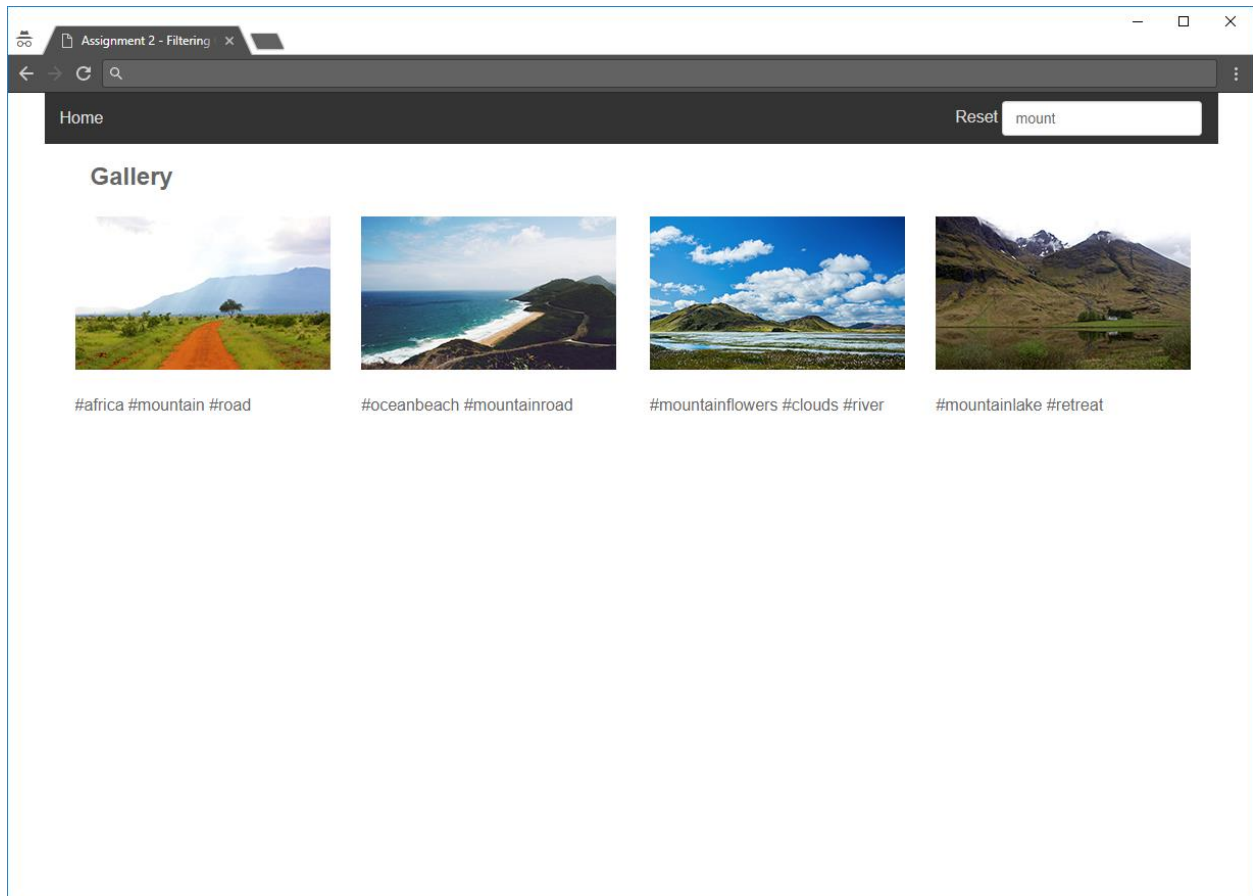


Figure 2. Filtering the gallery

Required Tasks

The following is a list of requirements for this assignment:

- An event listener is required for handling input in the filter text control
 - Utilize the **input** event to achieve this
 - Thumbnails must be searched through and hidden if they don't have a partial/full match of the filter value
 - If there is text in the filter control then the reset link must be visible, if there is no text then the reset control must be hidden
- An event listener is required for handling clicking on the reset link
 - All thumbnails must be made visible, the filter control value must be reset (i.e. empty), and the reset link must be hidden
- **Do not alter the HTML.** You are only required to write the JavaScript for the solution.
- If you are unsure of any of the requirements, **be sure to ask your instructor for clarification.**

References

1. <https://developer.mozilla.org/en-US/docs/Web/Events/input>

Marking Key

Tasks	Grade	Marks	Total
Filter Event Listener <ul style="list-style-type: none">• Event listener added• Images are properly filtered<ul style="list-style-type: none">◦ Must utilize a loop• Reset link is properly toggled		1 5 3	
Reset Link Event Listener <ul style="list-style-type: none">• Event listener added<ul style="list-style-type: none">◦ Clicking link doesn't reload page• Reset filter control• All images are made visible<ul style="list-style-type: none">◦ Must utilize a loop• Reset link is hidden		1 1 3 1	
Code Formatting and Style		-3	

Comments	SCORE	GRADE
	15	

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