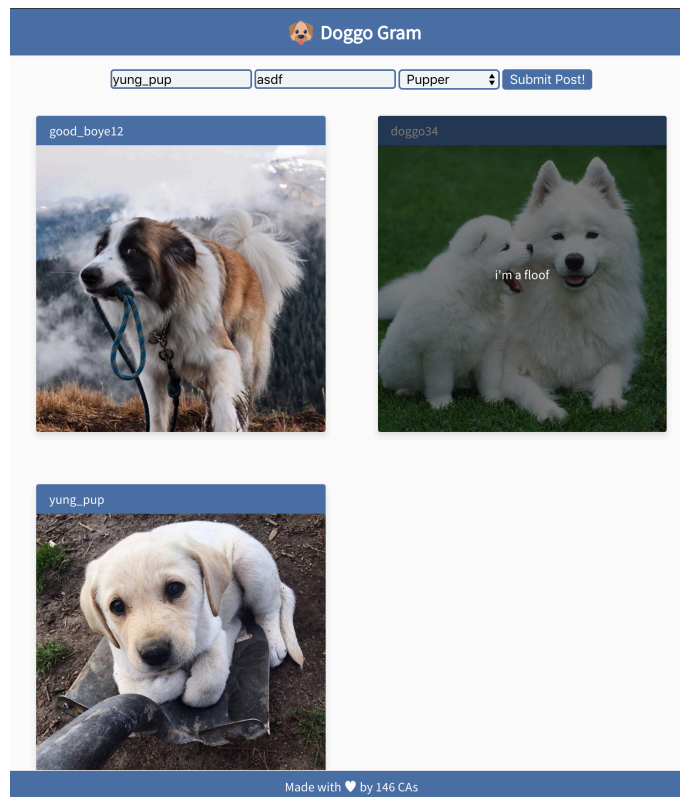


CS-146 Homework 4

JavaScript, the DOM and Event Listeners

1 Assignment Objectives

The goal of this assignment is to further your understanding how JavaScript, HTML and CSS work together to create interactive webpages. You will be making a fake social media website called "DoggoGram." You can see a preview of what the webpage will look like below.



2 Setup

For this assignment, you will be editing one file, `solution.js`, which is linked to `index.html`. **DO NOT** edit the HTML or CSS in any way, you only need to write the JavaScript functions. In the `solution.js`, you will find skeleton code for the different functions you have to create.

3 Task 1 - Form Handling

For the first function, `handleFormSubmit` you will be writing JavaScript to collect values from the `postForm` element.

Using following id's: `formUsername`, `formCaption`, and `formImg` you will be able to gain the values of each input element. For the image, you will only have the image name as the value, so you must utilize the `fileLocations` object to get the relative path to the image on your filesystem.

Once these values are obtained, you will pass them to the `addNewPost` function as arguments.

4 Task 2 - Appending DOM Elements

For the `addNewPost` function, you will be programmatically creating the following HTML element using JavaScript:

```
<div class="post">
  <span>{username}</span>
  <img src={imgLocation} alt={caption}>
  <div class="postOverlay">
    {caption}
  </div>
</div>
```

It is recommended to read the MDN on [document.createElement\(\)](#), which is used heavily in this part of the assignment. You can add attributes to your created elements with the relative accessor: `myElementVar.className`, `myElementVar.style`, `myElementVar.src`, etc.

You must also add two [event listeners](#) to your post div element:

- `"mouseover"` listener to change the `opacity` of the `postOverlay` to `'1'`
- `"mouseleave"` listener to change the `opacity` of the `postOverlay` to `'0'`

Once you have created the element with all the properties, you can append your newly created div to the `postList` element.

5 Submission

Upload your `solution.js` file to Canvas as `LastName_FirstName_Assignment4.js`.

Good Luck!