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**Assignment 4**

**LoFi and HiFi Prototypes**

Images of the prototype can be found in the folder ‘LoFi Prototype’.

Images of the prototype can be found in this the folder ‘HiFi Prototype’

All images were found via Google Images, and the respective websites they came from are shown in the HTML code in the Web Prototype.

**Web Prototype**

Link to github repository: <https://github.com/ysieh/MuddyPaws.git>

**Reflection**

One of the most difficult challenges about this assignment was thinking about the website in terms of not only HTML and CSS, but also Javascript and how Javascript interacts with divs in HTML. For example, I struggled for a very long time trying to get the cart data to persist between pages and trying to display the in-cart information (items, count, and the button to remove the item) because I had to first figure out the code to create new div items, and then I had to figure out how to properly insert these div items into pre-existing HTML code. Another challenge I faced often was figuring out which method was the most efficient in terms of either least lines of code written or least complicated way to represent a problem. For example, I had the option to either write new functions and use the functions to perform repeated actions, or I could have written for-loops into the Javascript body to be executed every time the page refreshed. I had a lot of failed functions that I just had to delete and re-write, sometimes because they got too complicated for me to understand and I felt it would be easier to restart, and sometimes because they weren’t performing the way I wanted them to and I had thought of another way to approach the problem.

The worst part about bugs is that when my code was especially messy it became difficult to figure out where exactly the problem was. I would be adding new code in a few different places before testing its overall effect, so I never knew quite where the root of the problem was. It was much easier to debug when I was conscious of the console and when I used console.log to figure out where the code was or wasn’t running.

**Bonus**

I have completed the wishlist and it is functional in my code.

I also made improvements on my web prototype, specifically using a more readable font (no script fonts, hard to read general text in that, so changed to a sans-serif and clean looking font), using a banner image instead of a square image on the home page to match other modern websites that use banners, changing my large text areas from being centered to being left-aligned, and generally improving the cleanliness of website to look more refined and polished.