Assignment 6 Xiangzhu Chen

Reflection

**The challenges of coding and how I overcame them**

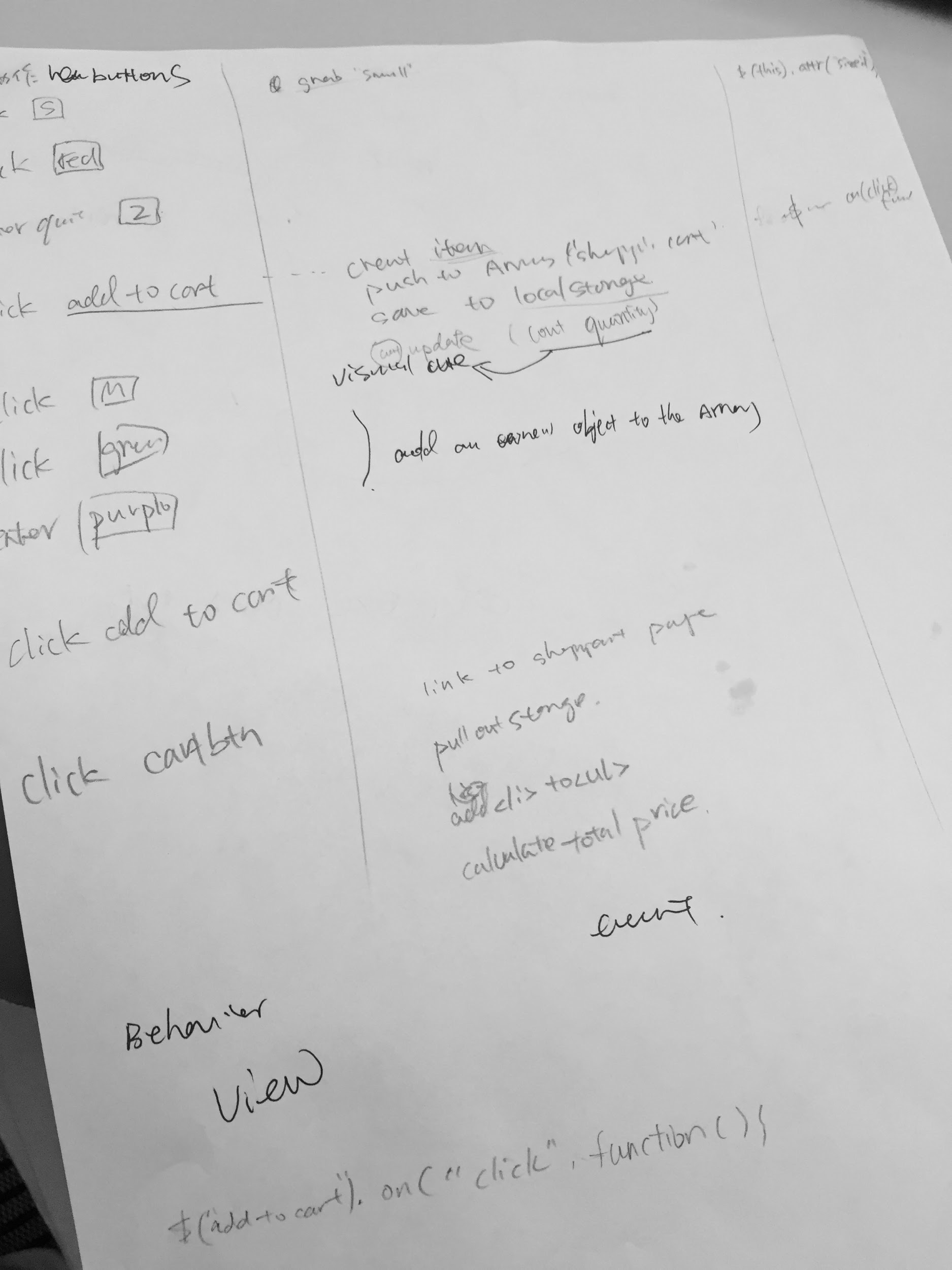
The first big challenge I encountered was to internalize the concept of object and map out the constructor function Item() for later use. I first created name, price, size, color, and quantity for Item, but realized that I also needed a thumbnail in the object as an property after I finished 70% of the codes. I

The next challenge was to grab the value of sizes and colors from the product detail page because they are images capsulated by divs, which

After grabbing the values I needed and implemented the add to cart function which created new items and push them into the shopping cart array, I found all the objects had undefined properties, which meant that none of the values I grabbed were passed in. I solved this problem by creating a current cart array first, and store all the properties such as name, size, price, etc. to it, then

The sequence of jQuery and javascript

**Takeaways**

1. Start early: I found myself spend much more time debugging than writing up the initial individual functions. The real challenges came when I tried to link these functions together and make the overall logic flow. Next time I would first draw out logic clearly on paper, then use comments to layout them in the codes, then dive into the actual coding process.
2. MVC is very helpful. I unconsciously used this framework while trying to make connections between user’s behaviors, in other words the events happen on the page, to the codes behind them. After I draw out links on the page, I got a better understanding of how event-based programming is like, and the separation of concern principles. (on the right is my sketch of relationship between behavior, events, codes)

**Things could’ve done better with more time**

The major revise I would like to make is refining the CSS so that some small visual detail could be cleaner. For example, the alignment of the price and buttons on product detail page could be aligned better at a fixed vertical line, the

**Citations of tutorials**

<https://www.youtube.com/watch?v=ES1jky86JLQ&list=PLoN_ejT35AEhzNoPStBzAkpqAu3YQwPj7&index=9>

This is a major tutorial of shopping cart js codes I watched. It was really helpful, and after watching this list of videos every day for one week, I successfully learned using objects, local storage, array, and major functions associated with them, such as counting the quantity and price.

<https://love2dev.com/blog/javascript-remove-from-array/>

<https://stackoverflow.com/questions/47032704/multiple-conditions-using-an-and-if-statement-javascript>

<https://www.imooc.com/learn/386> (This is a free class of how to make a carousel)

<https://stackoverflow.com/questions/1735230/can-i-add-custom-attribute-to-html-tag>

<https://stackoverflow.com/questions/554273/changing-the-image-source-using-jquery>

<https://stackoverflow.com/questions/11563638/how-do-i-get-the-value-of-text-input-field-using-javascript>

<https://www.w3schools.com/html/html_tables.asp>

<https://www.w3schools.com/jquery/sel_last.asp>

<https://www.oreilly.com/library/view/javascript-cookbook/9781449390211/ch12s13.html>

<https://www.w3schools.com/js/js_loop_for.asp>

<https://www.w3schools.com/jsref/met_storage_getitem.asp>