PUI HW6: Adding Functionality to a Website with JS

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**Note to TA**

I’ve hard-coded part of the shopping cart to match the look of my static page mockup, and the scenario of a user interacting with the web pages would be that the user has some items in cart, and s/he is in the middle of adding more.

**Reflection**

While building the shopping cart, I’ve come across the following major challenges and bugs, and under each point I’ve included how I approached them:

1. **Lack in understanding of the capabilities of JavaScript/jQuery**: I’ve learned bits and pieces of JavaScript on my own, but it’s still a relatively new language for me. When building this project, a lot of times I did not know what methods or built-in functions I could use to achieve the desired results (e.g. is there a way for me to check if a key-value pair exists in an array so that I can compare the product selected with those already in the cart to avoid having duplicates?)

***Solution***: I spent a significant amount of time learning about different functions and methods in JavaScript and jQuery, respectively – resources included Stack Overflow, Google searches and documentations from w3c School and jQuery

1. **Longer functions and more difficulty in debugging**: after making sure that some of the major functions (e.g. localStorage, quantity selectors) run, I would go back to write “checker” conditions to make sure the function is also logically sound. Taking the example in #1, if the user selects an item that is already in the cart (both color and size match), the cart should update the quantity of the existing item instead of appending a new row. To achieve that, I wrote additional code for finding matches in color and size key-value pairs and identifying the existing item with the same characteristics
2. **Hard-coded content made calculating cart subtotal slightly more difficult**: