**PUI Assignment 6**

**Low-Fidelity Prototype**

**A close up of text on a whiteboard

Description generated with high confidence**

**High-Fidelity Prototype**

A screenshot of a cell phone

Description generated with very high confidence

**Reflection**

Where HTML and CSS were brand new to me and took time to learn and implement correctly, I felt they were actually learnable from tutorials and practice. I found JavaScript had a much higher barrier to entry and despite watching hours of tutorials, doing practices online and toying with code, it wasn’t until I sat down with a few peers with years more experience that I was able to put together a conceptual understanding of JavaScript, how it works and how it interacts with HTML and CSS elements to dynamically store information and build pages. I feel relatively comfortable using CSS and HTML, but JavaScript will take far longer before I feel reasonably even close to confident in my ability to write functions and dynamically build pages.

Since I had no idea, really, where to start with this project, I created apseudo-pseudo list of actions that needed to be completed to fulfill the requirements of the assignment, then ordered them and wrote real pseudocode, based on logic and my Python knowledge. Most of this ended up needing to be rewritten to fit JavaScript’s specific requirements, but it did help me focus on the code, function by function. I mixed jQuery and JavaScript to get this code written, just based on what my peer tutors and online tutorials recommended for various functionality implementation. Defining variables and performing basic functions like append, remove, empty, and set attribute are easy, while creating arrays and getting information out of local storage remain complicated.

The number one benefit from this assignment, in terms of my coding abilities, is that I now have a great handle on debugging in the browser’s inspect mode and using console.log to understand what my code is doing at every stop. I did all my debugging for Assignment 5 straight from my code editor but having this new skill and an understanding of how to debug is going to serve me well as I continue to increase the complexity of my code and want to make changes without messing with code that is already working.

I had to scratch a lot of code and many hours’ work for this project. I wrote all of my JavaScript functions three or four times from scratch before I got them to work and, most frustratingly, wasted time creating my checkout page with CSS and HTML thinking I’d be able to just “call” in the data I wanted once I got my JavaScript working. While I was frustrated to delete all the code I’d worked on, having the correct div nesting to reference was helpful as I was creating my JavaScript elements and nesting them within each other for my dynamically created page. For simplicity’s sake, I did have to modify my original prototype to keep all data elements in a single column. Overall, this was a difficult project and one where I still don’t feel totally confident with JavaScript. However, I do have a better grasp on the syntax and how to read tutorials and find resources to code elements from scratch, as well as central JavaScript aspects like event handlers and dynamically building a page.

**References**

Maggie Chan was a Javascript hero, helping me understand how to even read online tutorials, what the terminology meant, and how to debug my code and functions.

Katelyn Duncan was also a great resource working through the ins and outs of styling page elements that are dynamically created through Javascript (vs HTML and CSS).

I also used Stack Overflow extensively, along with MDN and W3 schools tutorials.