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PUI

Homework 6B: Adding Functionality to a Website with JavaScript

I. Reflection

One of the biggest obstacles that I had with this assignment was figuring out the JavaScript to build the cart functionality, particularly local storage. Trying to figure out the tool of local storage was a struggle at first but with the help of the lab slides, Chrome's debugging tools, and office hours I slowly made sense of the process. I was able to populate data in the cart once I figured out how data is transferred through local storage.

Overall, this assignment also helped me understand the feasibility of my designs. Originally, the problems seemed very difficult and overwhelming. However, as I worked through this project I managed different parts of it in smaller chunks. I learned how to prioritize different functionalities in the website so when in a time crunch I can code the most important parts first. Through the process of completing this assignment, I learned a few different JavaScript concepts that required a lot of research and were quite challenging.

II. Programming Concepts

1. Local Storage - I think this is one of the main takeaways I had from 6B. I got the change to use it and see how it functions. I was able to store my objects inside a value in localStorage and this made me think more abstractly about my code and populate information in different pages. For example, it helped keep track of items even when navigating away from the website along with storing information between website pages.

2. Onclick - Another concept I learned dealt with events. To indicate user selection I used the onclick attribute. Each one of them initiated a function to be run. For example, to remove something from the cart the function was initiated when the user clicked on the remove button. I would like to learn and use more event handlers in the future like onmouseover.

3. GetElementByID - This was by far one of the most helpful JavaScript methods that I used. This allowed me to interact with HTML elements and use them in my code with the help of JavaScript. For example, I found myself using the GetElementById for glazing and quantity selection as well as cart removal.

4. If Else Statements - Using if else statements helped me organize logic and provide specific instances for certain blocks of code to run. For example, this helped me a lot in glazing and quantity selection. For example, if the user's selection is a certain type of bun, it puts up an image to match their selection.

5. Functions - I learned that each function we make should have a distinct purpose. Ideally, a function should serve only one particular task for clean and manageable code. For example, I have a different function to populate the shopping cart and a different helper function for adding a new element to the cart. Additionally, functions should be loosely coupled. For example, there is a different function for calculating the

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subtotal than populating the cart. Thus, in the future if there is a storewide discount, the subtotal calculating function can be edited without affecting how the cart is populated.