

Assignment 6B: Adding Functionality to a Website with Javascript Reflection

Reflection

There were a few challenges and bugs I encountered, and needed to overcome, through the completion of this assignment. I spent a large portion of my homework 6B time re-working the grid and styling of the cart page to create compatibility with roll additions. I was also struggling to understand how to make only one section of the grid dynamic while the rest maintained correct spacing. However, I continued to re-watch the recitations and referencing websites for syntax in order to understand ways to control these design decisions. After understanding how localStorage works and the different functions I could use to manipulate the data, such as getItem() and setItem(), I was easily able to store all the necessary data to use across the session.

Programming Concepts

1. **Using Javascript objects:** For the homework 6B additions, I used Javascript objects to consolidate roll information and simplify the amount of data in localStorage. This made it easy to manipulate the cart while keeping the roll information intact.
2. **Using Javascript arrays:** I learned to use an array in Javascript to store the cart. This simplified the process of adding to the cart HTML page, as I could just loop through the roll elements in the array.
3. **Using localStorage to create a cart boolean functionality:** In order to evaluate the state of the cart, I needed to have some sort of boolean functionality to understand if there were items in the cart or not (as there are different functionalities for items in the cart). I learned to use a single localStorage item to represent this true or false value.
4. **Adding attributes to child HTML elements:** Using the Javascript function setAttribute(), I was able to add attributes like "class" and "id" in order to manipulate the added HTML nodes in CSS. This especially helped me craft my remove buttons by adding an "onclick" functionality in order to remove the roll from the cart and HTML page. This step took me a while to consider as a way to format the page, but once added, it made it very easy to add the CSS necessary to have an aesthetic design.
5. **Manipulating CSS elements using Javascript:** I learned how to toggle elements on and off the page by using Javascript to manipulate the CSS display element. This was very useful when toggling the cart indication, flavor options, and quantity options for a user.