

Homework 6b

https://github.com/sallychen1/homework_6b

Reflection

I encountered challenges and bugs in storage and removal buttons. For storage, I initially did not set the localStorage properly after removing an item, which caused me various issues in having a correct updated cart. For removal buttons, I had trouble removing the item graphically as I had trouble finding the parent node of the item to be removed. I was able to overcome these issues through extensive use of print statements (`console.log()`) to check that I'm getting the correct values along the way, as well as factoring my functions into smaller parts to check that every small segment is working.

Programming Concepts

Below are the main programming concepts I used:

- Objects - I represented my products as objects, assigning them properties such as name, glaze, quantity, and price (in the function `Product(productName, productGlaze, productQty, productPrice)`). This was extremely helpful since each product has the same properties and representing them as objects allowed me to easily access and modify these properties in all my other functions.
- Arrays - I represented my shopping cart as arrays, with each entry in the array being a product. This allowed me to easily index into the arrays to retrieve a certain product, which was extremely useful when writing my remove logic. It also allowed me to use a for loop to quickly apply the same changes to all products in the cart. Moreover, accessing and modifying the array was extremely convenient when working with local storage.
- Separating JS files - since each page has many common as well as unique functionalities, I decided to separate my js files into a common file and page-specific files. This helped me eliminate some errors as certain divs only exist in certain pages, and helped to improve code navigation and readability.
- Using the template HTML tag - I decided to wrap each product in my shopping cart with an HTML template tag, since they are repeated elements and using this tag would allow me to easily make as many copies as I want without affecting what is rendered on the screen.
- JS event listeners - instead of adding inline HTML event listeners, I decided to add event listeners in my JS files for my buttons, because this would allow me to attach multiple functions to one event. It was especially useful for buttons that require many things to happen on click, such as my add to cart button (on the products page) that require updating the cart as well as various other values on click.

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