

Reflection

Bugs/Challenges encountered in 6A:

- The obvious big challenge I first faced was how I would be able to transfer information between pages. I thought about it for a while and tried many things but ultimately decided on using cookies. After I decided on using cookies, it was also hard to figure out how to read cookies as well. If you inspect the page and look at the console, you can actually see that when you add an item to cart, not only does the number next to the cart icon change, but I also record what specific type of bun, quantity, and glazing the user added!
- Another problem I was thinking about was how to switch selections when you click between different choices in amount or glazing, i.e. switching between “1”, “3”, “6”, or “12” as if they are radio buttons. I finally figured out that I could first reset every button to its original background color, then change the selected button color to the desired color. This, plus keeping track of the buns added in the cart within the cookies, worked really well! The user could now go between different product details pages and the amount in the cart would stay the same between pages.
- I decided in this iteration to make the left side of the cart (the overview of the items in the cart) sticky too, which made me look into how to make the navigation bar and the filters section in the item browsing page (“our buns”) stick to the top as well. I had to figure out how all of that worked as well.
- Finally, in the shopping cart HTML file, I wanted the bun name (“Pumpkin Spice”) and glazing selection & dropdown to be centered and next to the bun photo, but I couldn’t figure out how to do it because the glazing kept going to a different line, under the photo. I eventually figured out that I could wrap all the elements in a “<section>” tag and make everything float to the left. This eventually worked to the effect I wanted it to and I’m really happy with how it turned out.

Bugs/Challenges encountered in 6B:

- The major bugs I encountered were when I was trying to delete items from my cart. First, I attempted to just clear everything and re-add remaining items in the cart. However, I quickly found out that would not work because the variables I used intermittently in the JS file were still occupied in the cache. So then I decided to reload the screen instead.
- When I reloaded the screen, deleting an item worked, but only when the cart had more than one item. I spent several hours printing to console, checking my code, and various other debugging tools. Finally, I found out that when I deleted the final item from the cart, the cookie I used was not null anymore; it was an empty string. When I used logic on counting the items in the cart and when I added to the cart, I relied on knowing whether the cookie was null or not. In the end, all I needed to add was logic that detected whether the cookie was null OR if it was an empty string.

Programming concepts I learned

1. I learned a lot about how to work with a cookie in websites. This would be very helpful when I design websites in the future!
2. I learned how to find a specific element in the HTML with `findElementById`.
3. I learned how to use `appendChild` and how to construct a whole complex div with this function while constructing my cart items.
4. I learned how to add a class name and add/delete from the class list of an element. I also learned how to add attributes, including onclicks, in JS.
5. I learned what `innerHTML` and `outerHTML` were in JS and how to use them! I thought it was really cool how you could construct the HTML of something through “child” and “parent” node logic. I was also able to generate the full text with `outerHTML`.

Github repo: https://github.com/agliyt/agliyt.github.io/tree/main/homework_6b

Website: https://agliyt.github.io/homework_6b/