

Link to the website:

https://cindyl43.github.io/homework_6b/

Link to the source code:

https://github.com/cindyl43/homework_6b.git

Reflection:

Challenges & Bugs encountered:

1. After writing the javascript file, the dropdown menu works for the page, but when I click on the “Add” button, it doesn’t update the cart. It turns out that there is a bug in my “itemNode.innerText” line.
2. Also, I had a hard time updating the quantity of items in cart because I used cartItems.length in cart-number which only counts the number of items in the list not the total quantity of the items.
3. I also met a problem with updating cart across page because every time I refresh the cart page, it goes back to the initial value “0”.
4. Another problem is minor but my cart number indicator cannot be centered in the circle. I tried text-align and it did not help, the bug turns out to be related to the position value but I need them, so I couldn’t change them.
5. While trying to remove the item from list, I also encountered problems because I didn’t know how to embed a button inside the list.

How did I overcome the difficulties:

1. For this bug, I cross compared my code with the tutorial from D section lab and found that I missed one space in the line, so that line of code didn’t run.
2. I used a new variable “totalQuantity” to monitor the quantity of items in cart.
3. I tried to use updatePage() in the body paragraph to solve the problem.
4. I tried different methods in developer’s tool and finally solved the problem by adjusting the padding.
5. I didn’t solve the problem completely, but I added a “X” to the list to indicate that users can delete the items by clicking on the item in the list.

5 Programming concepts learned:

1. Representing products as custom Objects
 - Although I didn't create object constructors like we did in labs, I directly item objects in function addItem and assigned three values to the object, including color, filling, and quantity to be used later in the output.
2. Locating item in a list
 - Although we tried to use index to locate items in lab, this is the first time I tried to use it to
3. Using for loop to store recurring value
 - For the quantity in cart, I create a totalQuantity variable to add the quantity of the item everytime to the variable to keep track of the quantity of items in cart.
4. Using place holder and visibility to show different text under different conditions
 - For "items in cart", I learned in lab to incorporate the visibility attribute with if else statement to show "nothing in cart" when the cart is empty and to show the item list when the cart is not empty. It is an a-ha moment because I was surprised to find that under this logic, if the place holder texts are removed from the html file, the cart list updating function also wouldn't work in the JS file.
5. Using separate JS files to call function across pages
 - Although I used "main.js" for the product page and "cart.js" in the cart page, most functions are similar and I managed to call the "updatePage()" function across pages to have a consistent quantity of items in cart.