

Reflection

Some issues I encountered while creating this website include many issues with local storage. I found it very difficult to put the desired items into local storage and keep them there as different pages were navigated. I also had a difficult time getting the cart badge in the header to reflect the correct amount of items as had been added to the cart. I ended up using the number of objects in the array for the cart badge rather than the actual number of items (individual flavors * quantity of each flavor). I also had a very hard time removing the items both from the cart page and the JSON array, but I resolved this by using `.remove()` to delete the div from the page and finding the index of the item in the array and using `.splice()` to remove it from the array.

Programming Concepts

1. Event Listeners

- a. I used event listeners throughout the website when I needed to trigger a certain action or function when a specific interaction is made.
- b. Example:

```
document.getElementById("glazing-options").addEventListener("click", function() {
    let glazing = document.getElementsByName('glazing');

    for (i = 0; i < glazing.length; i++) {
        if (glazing[i].checked) {
            document.getElementById("bun-caption").innerHTML = glazing[i].value;
        }
    }
});
```

2. Classes

- a. I used a class to store the details of a product that has been added to the cart.
- b. Example:

```
class Product {
    constructor(flavor, glazing, quantity, price, photo) {
        this.flavor = flavor;
        this.glazing = glazing;
        this.quantity = quantity;
        this.price = price;
        this.photo = photo;
    }
}
```

3. For Loops

- a. I used for loops throughout the website when I needed an action to trigger through each index of an array or set of instances.

b. Example:

```
for (var i = 0; i < productArr2.length; i++) {  
    subtotal += parseFloat(productArr2[i].price * productArr2[i].quantity);  
}
```

4. Local Storage

a. I used local storage to store the details of the cart array while navigating through the pages.

b. Example:

```
function goToCheckoutPage() {  
    localStorage.setItem('order', JSON.stringify(productArr));  
  
    let loadedProductArr = localStorage.getItem('order');  
    let productArr2 = JSON.parse(loadedProductArr);  
}
```

5. JSON Stringify

a. I used JSON Stringify to convert the cart array into a string in order to be able to store it in local storage and then convert it back into an array using JSON parse when I needed to access it.

b. Example:

```
function goToCheckoutPage() {  
    localStorage.setItem('order', JSON.stringify(productArr));  
  
    let loadedProductArr = localStorage.getItem('order');  
    let productArr2 = JSON.parse(loadedProductArr);  
}
```