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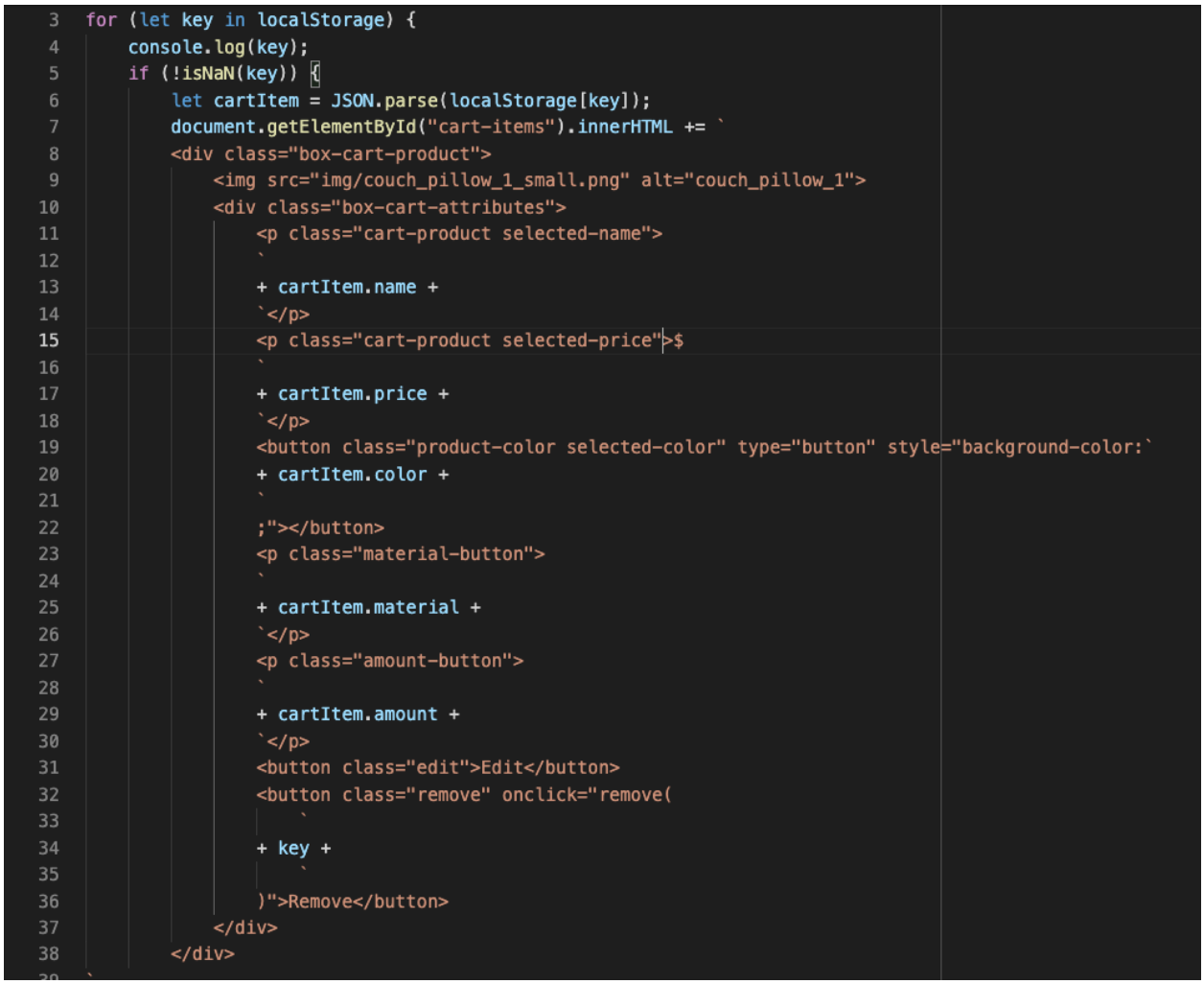
Adding Functionality to a Website with JavaScript

Reflection

Overall, this assignment was challenging for me because I have to learn Javascript and know how to implement the concepts all at once. The biggest challenge was to figure out how to add every item when “add to cart” is clicked and get the which specific key of those items to display each object in the local storage at Cart.html page. At first, I didn’t know why looping over the key couldn’t get the value from localStorage, but then I found out that the key in localStorage includes not only the key/value I stored, but also other properties. Therefore, I only needed to get the key with numbers by checking this condition `(!isNaN(key))`, because that was how I stored my objects using `cartAmount.toString()`. After this step, I finally were able to get the precise value from localStorage.



```
for (let key in localStorage) {
    console.log(key);
    if (!isNaN(key)) {
        let cartItem = JSON.parse(localStorage[key]);
        document.getElementById("cart-items").innerHTML += `
        <div class="box-cart-product">
            <img src="img/couch_pillow_1_small.png" alt="couch_pillow_1">
            <div class="box-cart-attributes">
                <p class="cart-product selected-name">
                `
                + cartItem.name +
                `</p>
                <p class="cart-product selected-price">$
                `
                + cartItem.price +
                `</p>
                <button class="product-color selected-color" type="button" style="background-color:`
                + cartItem.color +
                `
                ;"></button>
                <p class="material-button">
                `
                + cartItem.material +
                `</p>
                <p class="amount-button">
                `
                + cartItem.amount +
                `</p>
                <button class="edit">Edit</button>
                <button class="remove" onclick="remove(
                    `
                + key +
                    `
                )">Remove</button>
            </div>
        </div>
```

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Highlight Programming Concepts

1. **`addEventListener`**

```
25  // select color & pattern
26  for (let i = 0; i < allBtns.length; i++) {
27      let btn = allBtns[i];
28      btn.addEventListener("click", function(){
29          select(btn, allBtns);
30      });
31  }
```

I learned how to use addEventListener to apply functions onto my buttons.

2. **`classList.add / classList.remove`**

```
40  function select(selectedEl, elements) {
41      for (let j = 0; j < elements.length; j++) {
42          elements[j].classList.remove("selected");
43      }
44      selectedEl.classList.add("selected");
45  }
```

I learned how to add a class onto the selected one when there are multiple of the options with the same class. I wrote this function to call while looping through the same class. (First removing the selected class because only one color can be selected at a time)

3. **`key in localStorage`**

```
3  for (let key in localStorage) {
4      console.log(key);
```

Learned that there are many keys in localStorage by default: length, clear, getItem, removeItem, setItem, and also the values I stored.

4. **`JSON.stringify(item) / JSON.parse(item)`**

```
19      localStorage.setItem(cartAmount.toString(), JSON.stringify(item));
20      console.log(JSON.parse(localStorage[cartAmount]));
```

Learned that I need to turn all the values into string in order to store into localStorage. Also need to parse the string of to retrieve the right value.

5. **`localStorage.setItem("itemAmount", cartAmount)`**

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```
8     cartAmount += 1;
9     amountDisplay.textContent = cartAmount;
10    localStorage.setItem("itemAmount", cartAmount);
```

I learned how to add key & values into localStorage and that it'll always be stored as string.