

Reflection

At first, I was stuck on how to store the information of the detail page where I add the items to cart so I can access them in the cart page. This problem is later solved by using local storage. Then I encountered a problem where I don't know how to keep track of which item I should delete when I button was pressed, and how to delete that item. After lots of trials, I found a way of using arrays and splice to implement that feature, which probably is not the best option but it works for this assignment. I also had trouble assigning "onclick" to dynamically added buttons, because I called the function instead of using "function()". Moreover, I also mixed up string and integer in javascript.

In general, these issues are very good learning experiences and caused by my unfamiliarity with javascript. They basically can be solved through looking up documentations and stack overflow. By doing these, I think I am getting more and more familiar with this language, and hopefully these problems can be mitigated in the future.

Programming Concepts

1. Object

I used objects to represent the items in the cart.

```
function Item(color, filling, quantity) {  
  this.color = color;  
  this.filling = filling;  
  this.quantity = quantity;  
  this.colorImage = getColorImage(color);  
  this.fillingImage = getFillingImage(filling);  
}
```

2. Array

I used arrays to store the objects.

```
if (localStorage.getItem("cartItems") === null) {  
  localStorage.setItem("cartItems", JSON.stringify([]));  
}  
  
var cartItems = JSON.parse(localStorage.getItem("cartItems"));  
cartItems.push(newItem);  
localStorage.setItem("cartItems", JSON.stringify(cartItems));
```

3. LocalStorage

I used localStorage to share data across different pages.

```
var cartItems = JSON.parse(localStorage.getItem("cartItems"));  
cartItems.push(newItem);  
localStorage.setItem("cartItems", JSON.stringify(cartItems));
```

4. Loop

I used a loop to append the items in the array to the html file.

```
for (i = 0; i < cartItems.length; i++) {  
  currentItem = cartItems[i];
```

5. Event handler

I used a “addEventListener” to execute the delete operation when a delete button is clicked.

```
itemDelete.addEventListener("click", function() {  
  var cartItems = JSON.parse(localStorage.getItem("cartItems"));  
  // console.log(this.value);  
  cartItems.splice(Number(this.value),1);  
  localStorage.setItem("cartItems", JSON.stringify(cartItems));  
  
  cartLoad();  
});
```