Vera Wei
Assignment 6B
Reflection

One of the main challenges I encountered for this assignment was debugging code when my JavaScript functions weren't behaving the way I intended them to. For example, when I wrote code to append a new section of HTML for each item added to the cart, I had trouble getting onClick to properly trigger the function. I overcame this by consulting TAs and peers who had more experience in programming and advised me to insert console.log messages to trace code and get a clearer understanding of where things go wrong. In addition, when I was trying to remove cart items, there was an issue where the empty state message of my cart was being rendered multiple times. I was able to figure this out by searching error messages in my console on Google and reading about workarounds that other users on platforms such as StackOverflow had employed.

Another challenge for me was organizing my code such that I could easily identify which piece of code was corresponded to each part of the rendered website. At first, I neglected to comment sections of code, so when certain files became lengthy and complex, I was struggling to find where I needed to go for certain modifications. However, as soon as I realized this struggle, I made it a habit to consistently comment different sections of my code and clarify my primary intentions for different code snippets.

Programming Concepts

1. **Object**
   For each cinnamon roll item I added to the cart, I first used a constructor to put the item's attributes into a JSON object. These attributes or key-value pairs included glazing type, quantity of rolls, price, etc.

2. **Array**
   I used an array to store cinnamon roll objects. In this way, each object that is added to the cart or wishlist can later be retrieved by referring to the object's index.

3. **Local storage**
   I used local.storage to store arrays of objects (for cart and wishlist). This enabled me to modify and retrieve the stored content from any point in the website.

4. **Event listeners**
   When implementing functions for button click events, I used the onClick attribute for the button elements. I also added event listeners in my JS code to track whether change occurred in the DOM, which would then trigger other functions.

5. **Separate JS files**
   I chose to create separate JavaScript files as a strategy to better modularize my code. This helps make sure that the functions pertaining to one page don't trickle over to other pages and cause errors due to null values.

Vera Wei

Assignment 6B

Extra Credit

1. **Wishlist**

   I created a wishlist on the cart page. After users add an item to their cart, they have the option of moving that item to the wishlist. Users would also be able to remove items from the wishlist.

2. **Image Carousel**

   I added an image carousel to the About page, which switches between different cinnamon roll types. The carousel automatically switches between images every 3500 milliseconds, but users can also advance to the previous or next image by clicking on the arrow buttons.

3. **Interesting JS**

   - When users add a cinnamon roll item to their cart from a product details page, they will see an animated banner slide from the right, confirming that the item has been successfully added.
   - On each product detail page, there is a message below the "Add to Cart" button that shows the quantity of that product in the cart.

4. **Functionality for All Products**

   I implemented functionalities for all six cinnamon roll products.