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Homework 6B Reflection

1. Reflection: One of the main challenges that I encountered was figuring out how to display an empty cart when users first entered the cart page. In the previous assignments, I had simply coded in a fake cart item in the cart page HTML. However, in this assignment, items in the cart page should only show up once users had selected the item they wanted and pressed the 'Add to Cart' button. To resolve this problem, I first had to check to see if the array storing the information about the items added to cart was empty. If it was, it displays a message telling users to view the menu. If items were stored in the array, it would then show the HTML of the cart items, and print the glaze and quantity that was saved in local storage. From this, I learned more about local storage.

   Another challenge that I encountered was removing the correct item from the cart once the 'Remove' button was pressed. Originally, the items in the cart had the same tag, and my removeItem() function deleted the items with that tag. Therefore, when users would click the 'Remove' button, all the items in the cart would be removed, not just the one they had selected. To fix this issue, I used the splice function that removed just the one item at the correct index.

2. Programming Concepts
   a. Objects: I used an object called newItem with two properties: glaze and quantity. This stored the user's selected preferences for the item that they wanted in the cart.

      ```
      const newItem = {glaze, quantity};
      ```

   b. Local Storage: The selected item's glaze type and quantity was put into local storage when the user clicked the 'Add to Cart' button.

      ```
      const stored = localStorage.getItem("cart");
      ```

   c. JSON.stringify(): I used this to convert the JavaScript object that stored the item glaze and quantity into a string.

      ```
      localStorage.setItem("cart",JSON.stringify([newItem]);
      ```

   d. For Loops: I used a for loop to iterate through the cart for its entire length, in order to calculate the subtotal in the cart. For each item in the cart, I multiplied the quantity of items by the price ($2.99).

```
for (let i = 0; i < cart.length; i++) {
     subtotal += cart[i].quantity * 2.99;
}
```

e. If statements: I used an if statement to show a message on the cart page if the cart was empty, informing users to view the menu to add items in their cart. If the cart.length was equal to 0, that meant the cart was empty and the message would appear.

```
if (cart.length === 0) {
     document.getElementById('emptyCartText').innerHTM
     L = 'Your cart is empty! Browse our menu to add
     items to your cart! :)';
}
```