

Reflection on bugs:

1. One biggest challenge that I encountered was that since I didn't know how to properly clean the local storage cache on Google Chrome, I kept getting "null" errors when a certain type of product was checked. I then found out from [w3schools.com](https://www.w3schools.com) that this issue can be resolved through using `localStorage.clear()` on the specific screen that has jammed storage.
2. When I started to code the cart page, since I didn't use `JSON.stringify()` for the elements, the money didn't update when the different quantity was selected. I resolved this through using the `JSON.stringify()` function.
3. For the removing items function, I was using the method from week 8 and week 7 assignment first, but it kept giving me "null" errors. I then looked it up in the [w3schools.com](https://www.w3schools.com) and found out that I can create a "for loop" and use the "splice" method for removing items. I essentially called the splice function on the index of the items from localStorage and it finally worked.

Programming Concepts:

1. For the menu page, I stored all the objects(product name, description, price, imglink) to the local storage. Using the mouse click function, I am able to load the specific product to the detail page.
2. Creating the HTML elements directly in the Javascript for shopping cart page. I learnt from the W3school that I am able to directly create HTML elements within the javascript file. Creating the elements directly in javascript make the logic much cleaner because otherwise you have to use many boolean toggles to hide HTML elements.
3. By singling out each mouse click event with the help of true and false statement, I am able to create mouse click effect when the specific topping and quantity is checked. Creating mouse click effect in Javascript so that users understand the current the state of the product that has been checked.
4. For the shopping cart removal function, using the "splice" method, I essentially called the splice function on the index of the items from localStorage. This method allows me to change the contents of an array by removing existing elements.
5. When working with local storage, it is important to check the cache in the browser making sure that the local storage is not be "jammed".

References:

- [codecademy.com](https://www.codecademy.com)
- [w3schools.com](https://www.w3schools.com)
- <https://developer.mozilla.org/en-US/docs/Web/API/Storage/clear>
- <https://javascript.info/data-storage>
- <https://www.pluralsight.com/paths/javascript-core-language>