Assignment 6B :

Shopping Cart

Links to Website and Github repo
Reflection
Learning

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Link to public GitHub repo-
https://github.com/ektaverma166/ektaverma166.github.io/tree/master/homework_6/homework_6b

Link to website-
Home Page- https://ektaverma166.github.io/homework_6/homework_6b/
Product Detail Page- https://ektaverma166.github.io/homework_6/homework_6b/products_couch_view.html
Shopping Cart Page- https://ektaverma166.github.io/homework_6/homework_6b/shoppingcart.html

Reflection

1. **Issues Encountered:** When on the product description page, I was able to add items to the cart (i.e. add them to the array in local storage), however after navigating to the shopping cart, I was not being able to access the items from the local storage. The local storage was being cleared repeatedly.
   Learning: This was occuring because I was coding on the Glitch platform. My product description page and shopping cart pages were considered as two different websites and the local variables weren't being shared across due to security concerns.
   Resolution: I stopped using glitch and started editing my local files on sublime. I placed all the files in one folder to allow them to reference the local storage.

2. **Issues Encountered:** cart.push was throwing an error stating that .push was undefined.
   Learning: My code first checks if cart_quantity on the local storage is NULL (i.e. page has never been opened before), if yes then it sets cart_quantity to 0 and creates another locally stored object array cart[] to hold cart items. If no, then it simply uses cart_quantity info to print the cart number next to the cart icon. I realized that I added the code to create cart[] after testing my code to set cart_quantity. Hence my code never ran through the "if" part, and hence my cart[] never got created. Therefore when I tried cart.push() it could not find cart[].
   Resolution: I reset my cart_quantity, causing the program to enter the "if" loop in which it created the locally stored cart[] array to hold the cart objects.

3. **Issues Encountered:** weird items showing up on the shopping cart page, and deletion not yielding the right items.
   Learning: To delete I was simply removing the li from the ol on my webpage, and decrementing cart_quantity. The actual cart[] array remained unaffected.
   Resolution: I used the splice() function to actually modify the array when user deletes an item.

Learning

1. **Concept 1:** Learned about OnClick and OnChange event handlers to dynamically change images when selection is altered. Also learned the setAttribute() this way.
   Example: Used this concept on the product description page to dynamically change the images visible depending on the selection of pillow properties by the user.

2. **Concept 2:** Learned about working with objects and object arrays.
   Example: Used this concept on the product description page. I defined a constructor for object cart_item. Every time user added a selection to the cart, I created an object of cart_item with the details of their selection and added it to the cart[] array.

3. **Concept 3:** Learned to work with local storage, especially setting and retrieving arrays from local storage.
4. **Example**: Used this concept across the website. I retrieved cart_quantity on every page to display the quantity next to the cart item. I set the cart_quantity when user added something to cart. When it comes to the cart[] array, I retrieved it on both the product description page (to modify the array) and the cart page (to dynamically generate the shopping list)

5. **Concept 4:** Learned how to modify arrays using push() and splice()
   Example: Used push() to push objects to the object array cart[]. Used splice() when deleting items from the object array[].

6. **Concept 5:** Learned how to dynamically create a list using document.createElement() and setting it's attributes using the .setAttribute() function.
   Example: Used these two functions extensively on the shopping cart page where I was pulling objects from the cart[] object array using them to dynamically add list items to my ordered list.