Assignment 6B Reflection

Reflection

You should clearly demonstrate what issues / bugs you encountered, what you learnt from them and how did you resolve them. A good reflection will demonstrate a clear understanding of the issue, and how it may be mitigated in the future. Writing should demonstrate reflection on actual events and analyze these events to draw appropriate conclusions.

1. Correctly adding numbers in the cart
   This issue was encountered after completing Assignment 6A since items were being added to the cart without displaying the correct numbers. Rather than displaying 3 after the "add to cart" button was clicked 3 times, the number in the cart would appear as 111. To resolve this, the following was added (on line 83):

   cartTotal = parseInt(cartTotal);

   I believe this was because the variable was being treated as a string, so I used the parseInt() method to force the code to treat it as a number and add instead of concatenating on the next line:

   cartTotal = cartTotal +1;

   This increased the number of items in the cart by one each time.

2. Reflecting changes in the cart when items were deleted
   This issue was detected when the "delete" function was added. The items on the cart page would be deleted, but this change was not then reflected in the cart (across any of the pages). The following code (from line 104-108) was added to resolve this:

   $('.delete').click(function(){
   $('.cartBox').html('');
   cartTotal = 0;
   $(".cart sup").text(cartTotal);
   sessionStorage.setItem("cartTotal",cartTotal)

   First, the click method was used so that the function would be attached to the action of clicking the delete button. By adding cartTotal = 0, the cart total would then be changed back to 0 when the delete button was clicked. I also used the jQuery .text() function to update the HTML on the current page in real time.

Programming Concepts

Demonstrate 5 programming concepts that you learned in Javascript and used in this assignment with an example.

1. <u>String manipulation</u> was used to convert strings into integers. This was done using .replace() on line 93 to ensure the total would be reflected correctly- the "$" from the price had to be removed so that I could multiply the quantity by the item price to get an accurate total.

2. <u>Session storage object</u> was used to store data in the cart for only one session (the data is deleted when the browser is closed). The function cartTotal uses this on line 5 to first get the number of things in the cart from storage.

3. <u>"This" keyword</u> was used to invoke the parent within the product function on line 12. 'This' in this context refers to the clicked element, since I added an event listener to it using jQuery.click() function.

4. <u>Replace method</u> was used to search strings for a specified value and return a new string where the specified values were replaced. On line 21, .replace was used to get the bun name that was stored earlier and set it as a new variable, since "%20" was being added to the product names, which broke the logic I had written for the previous assignment. I also used this method to remove dollar signs in order to perform arithmetic.

5. <u>Click method</u> was used to attach a function to run when a click event occurred. This was used on line 80 to attach the function of adding items to the cart when the button was clicked. This is the jQuery version of document.addEventListener("click").