

Main Assignment

Website

http://josephhan.me/homework_6b/

Source Code

https://github.com/PeperoJo/homework_6b

Reflection

Challenges and Overcoming

One of the challenges was creating animation for my website (in particular, the notification banner feedback that confirms that an item has been added to the shopping cart or the wish list). Although confusing in the beginning, I was able to implement this feature utilizing transition and transform to shift the position of the banners. Another challenge that I came across was implementing the carousel view as an additional feature. Thankfully, there was a tutorial on [w3school](#) which provided great help and assistance in making sure Bun Bun Bakery Shop visitors can view suggested items down below the product detail pages. Overall, this was a fun assignment, and I did not come across too much trouble. I would have loved to focus more on design (e.g. for the carousel) given more time as well as implement additional features such as moving wishlist items back to the shopping cart.

Programming Concepts

- Array Data Structure
 - Cart item objects are stored in an array and each item can be referenced through the array's index.
- For-loop
 - This is utilized to iterate through the array of shopping cart items / wishlist and generate HTML code for each item.
- Objects
 - Each food item (in this case, cinnamon rolls) are turned into an object before being added to a list. The objects have properties to store information about the name, glazing type, and price.
- Storage Object

- local.Storage is utilized to store the array of cart item objects and keep track of it during the session. This allows the array to be accessed and modified anywhere throughout the site as long as the cache isn't cleared.
- Data Type - typeof()
 - Each variable is created with "var," however the data type isn't assigned unless a specific value is assigned unlike other languages that require specifying the data type. This can sometimes be confusing and lead to mistakes. Data type is an important concept to keep in mind (e.g. 17 vs "17" is different) and "typeof()" can be utilized to check.

Extra Credit:

"wishlist" functionality (max 3pts)

- users can add products to their wishlist
- and view their wishlist (on the shopping cart page)
- Bonus: users can shift products from shopping cart list to wishlist

Carousel on Pumpkin flavor page that shows similar products (max 5pts)

- The carousel scrolls left and right through buttons

Some interesting and useful JavaScript functionality for your web site (max 3pts)

- Animated banners when adding items to shopping cart or wishlist
 - Slight variations for each action
- Shopping cart page automatically finds the sum of items in the cart.
 - Page updates whenever an item is added or removed.