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PUI HW 6B
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Muddy Paws Adventure Gear

Link to Website

View the website here:
https://martinatan.github.io/pui-hw5-and-hw6/homework_6b/index.html

Link to Source Code (Github)

View the Github repository here: https://github.com/martinatan/pui-hw5-and-hw6

Reflection

I had a lot of issues when working on this project related to modularizing my JavaScript functions. It was difficult to keep track of a very complicated process such as updating the interface of the Bag page when a user either removes an item or clears the entire Bag. In the end, I had to separate a lot of things into extra functions that I was not anticipating. I also had some trouble adding event listeners using JavaScript, as I often encountered errors about null elements that I was trying to add event listeners to. In the end, I had to include some event listeners in my HTML, although in the future I would like to tackle a more streamlined process for figuring out what event listeners I want in my page and then systematically adding them in JavaScript. In the future, I believe learning React would also reduce my frustrations with the process of implementing an e-commerce website that has many reusable components.

Programming Concepts

1. Loose coupling: I gained more experience with the loose coupling of HTML, JavaScript, and CSS through making this prototype. One thing that helped me learn this was the idea of either statically inserting event listeners in the HTML or adding it dynamically with JavaScript, as I realized that one could create different JavaScript files for the same HTML page to give it different sets of functionality using event listeners.
2. I learned how helpful HTML tables can be when structuring information. I used a table for my shopping Bag page and this helped me conceptualize each item as having the same 'template' populated by specific information like color and size. Deleting and adding rows of the table paralleled removing and adding products to the cart.
3. With the table, I was also able to use the concept of flexible grid layout to organized more complicated sets of information. Although my Shopping Bag page does not look too much

like a table because I styled it to include no borders, it still takes advantage of alignment to help organize information. This was a useful concept that I noticed is pretty common, when I looked at the Shopping Cart design pattern examples on other sites. The grid layout helped with grouping of similar information like the Description, Quantity, and Pricing of the product.

4. Local storage: I recognized the value of using Local storage when creating this prototype. It was satisfying to retrieve and work with the information related to my Shopping Bag across pages and sessions using the local storage feature. After a while it became second nature, although I noticed that I would need to get and update the Local storage at the start and end of many functions of my JavaScript. In the future I would like to find a way to automate the access to data as one moves across pages, instead of needing to write code to access it for every action.
5. I learned how to work with a JSON array by implementing my Shopping Bag data storage as a JSON within local storage. It was helpful to store objects in this way as I could easily define a Product object and add new attributes this object included in the future, as long as I remembered to populate each key-value pair throughout my code. I appreciated that I could easily create values to attach to an object and then insert it into an array, making nested sets of information that remind me of how I outline with bullets and indenting on word documents. The use of a nested JSON was very intuitive in this way.

References

Thanks to the great photo contributors on Unsplash and Pixabay who have shared their photos for me to use on this assignment!