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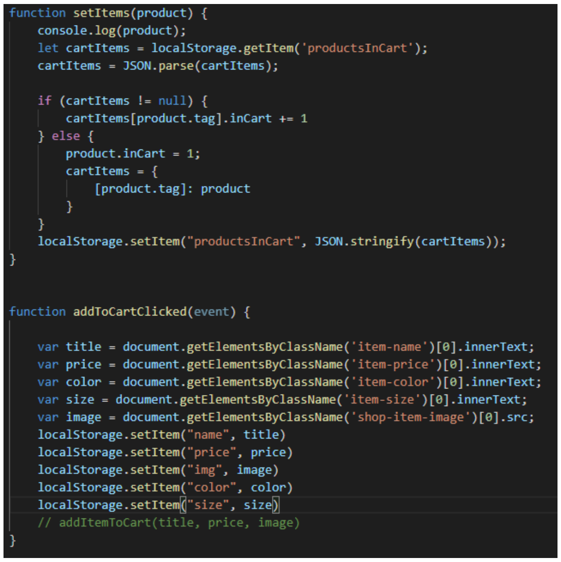
PUI Fall 2020
Github link: https://github.com/byfar1/byfar1.github.io/tree/master/homework_6B
Website link: https://byfar1.github.io/homework_6B/index.html

During my coding endeavors, I encountered a number of issues that were difficult to solve, but with time and patience I managed to overcome them. The first issue I had was the shopping cart remove button removing the entire div class. I had a portion of this coded out from 6A, but it was buggy to say the least. I found out that it was because my *buttonClicked.parentElement.parentElement.parentElement.remove()* had one too many .parentElements, so it ended up removing the entire parent DIV, thus deleting my entire page. This wasn't exactly a challenging error to fix, but it was more of an importance of stressing the details--any small coding error will multiplicatively cause issues in the future.



```
function setItems(product) {
    console.log(product);
    let cartItems = localStorage.getItem('productsInCart');
    cartItems = JSON.parse(cartItems);

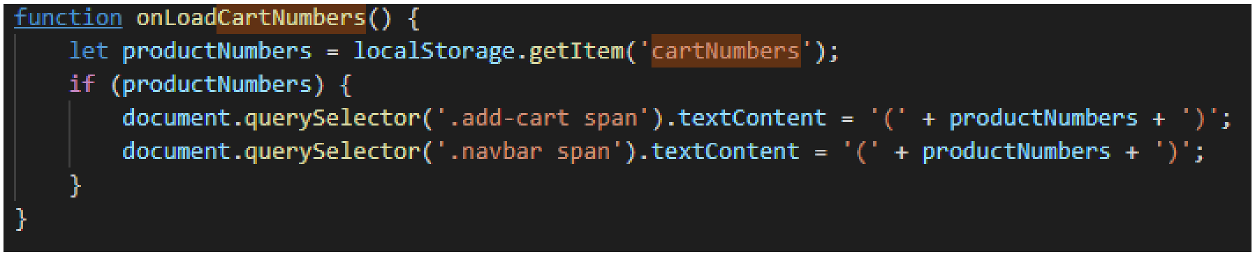
    if (cartItems != null) {
        cartItems[product.tag].inCart += 1
    } else {
        product.inCart = 1;
        cartItems = {
            [product.tag]: product
        }
    }
    localStorage.setItem("productsInCart", JSON.stringify(cartItems));
}


function addToCartClicked(event) {

    var title = document.getElementsByClassName('item-name')[0].innerText;
    var price = document.getElementsByClassName('item-price')[0].innerText;
    var color = document.getElementsByClassName('item-color')[0].innerText;
    var size = document.getElementsByClassName('item-size')[0].innerText;
    var image = document.getElementsByClassName('shop-item-image')[0].src;
    localStorage.setItem("name", title)
    localStorage.setItem("price", price)
    localStorage.setItem("img", image)
    localStorage.setItem("color", color)
    localStorage.setItem("size", size)
    // addItemToCart(title, price, image)
}
```

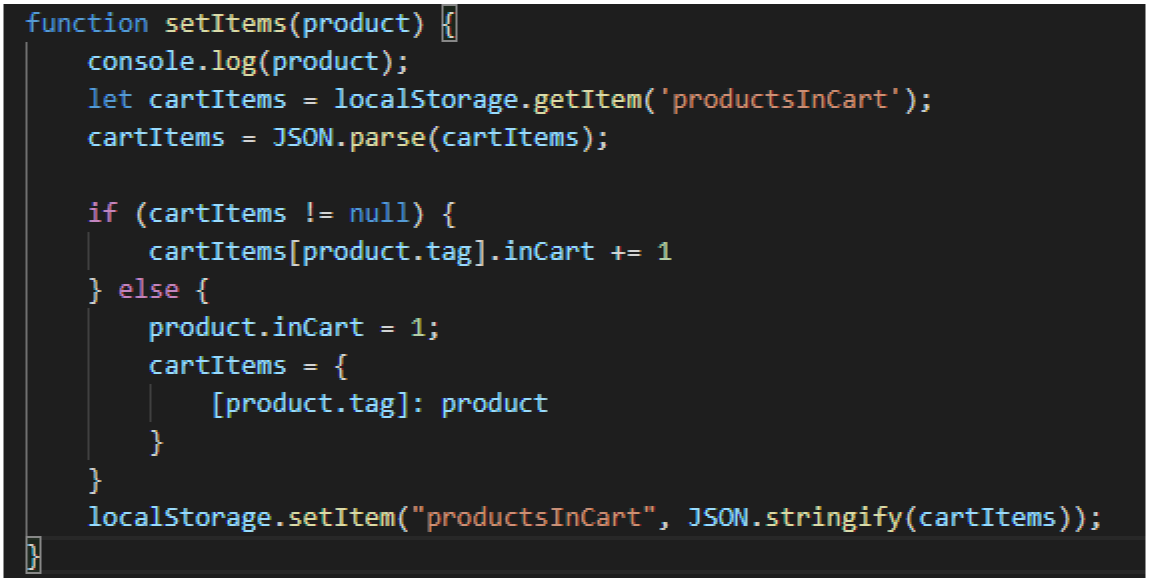
Another really challenging issue that I encountered was trying to make cross-html changes through JavaScript. I discovered a solution through the utilization of localStorage. When the 'add to cart' button was clicked, it would store the selected details onto the localStorage, which I can then call from the shopping cart page and apply to the cart details.

There were also 5 specific programming concepts that I learned as a part of the assignment, and found to be extremely helpful to know.



```
function onLoadCartNumbers() {
    let productNumbers = localStorage.getItem('cartNumbers');
    if (productNumbers) {
        document.querySelector('.add-cart span').textContent = '(' + productNumbers + ')';
        document.querySelector('.navbar span').textContent = '(' + productNumbers + ')';
    }
}
```

1) document.querySelector was a very useful substitute for .getElementbyId as it allowed for finer selections within the class



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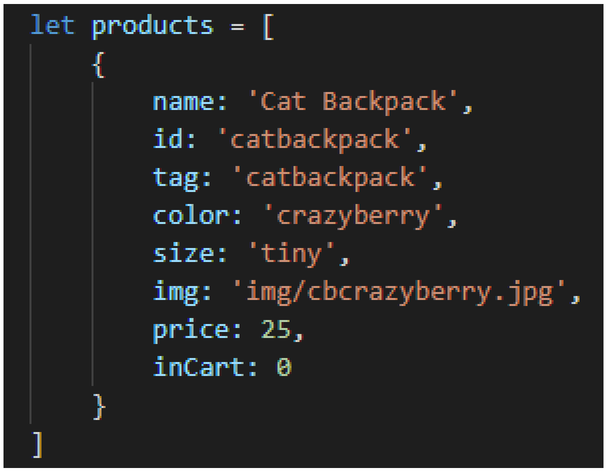
```

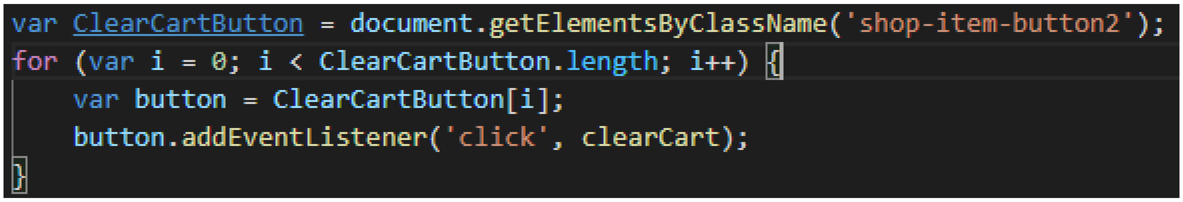
2) I learned that you can immediately access the dictionary by using *[product.tag].* It really helped speed up the process in my coding



```
let products = [
    {
        name: 'Cat Backpack',
        id: 'catbackpack',
        tag: 'catbackpack',
        color: 'crazyberry',
        size: 'tiny',
        img: 'img/cbcrazyberry.jpg',
        price: 25,
        inCart: 0
    }
]
```

3) **Dictionary:** Using dictionaries allows me to create a more organized and detailed categorization of an item. It also allows for easy calling and editing of the details.

4) List Selection: I learned how to select an item in a list using an index number



```
var ClearCartButton = document.getElementsByClassName('shop-item-button2');
for (var i = 0; i < ClearCartButton.length; i++) {
    var button = ClearCartButton[i];
    button.addEventListener('click', clearCart);
}
```

5) Event Listeners: Learning how to utilize event listeners was crucial in creating interactive interfaces. I learned how to use event listeners to react to button clicks and subsequently make changes in html.