Links

[Click here to go to the live website]
[Click here to go to the repository]

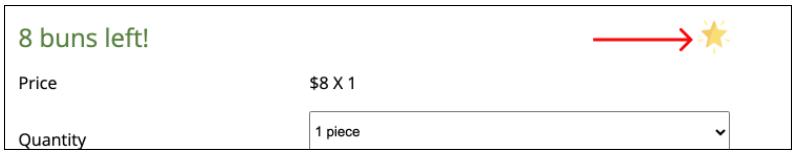
Notes:
1. To adapt to the product's requirements, I have named the cart as "bag" and the wishlist as "favorites".
2. Dynamic bag (cart) page which updates items & cost as per items added to it was built and submitted in 6A itself.
3. Templating was implemented and submitted in 6A itself in a way that you can see different content for each product's page via a single HTML file.

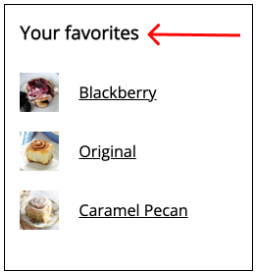
Required Features Added

Ability to delete an item from the bag (cart) page. The bag page contents update when you click on delete.

Bonus Feature

Ability to add an item to the favorites list (wishlist) from its details page by clicking on the star icon. This favorites list can be viewed on the right hand side of the bag page.





Reflection

Bugs encountered:
1. For quite a while, I wasn't able to figure out why my local storage contents were appearing as plain characters. After spending some time reading about it, I realized that I needed to parse the contents since they're stored as strings locally. Here, I was reminded of the necessity to parse strings to get their true object form - something I did quite frequently when I used to receive data from the backend when coding for client-server architectures.
2. All over the code base, I'd forgotten to account for cases when the local storage is empty. In such cases, I kept getting "undefined" console errors. After going through the codebase and accounting for empty storage conditions by assigning them as empty arrays, I was able to resolve such errors. This taught me the importance of always accounting for corner cases when implementing my designs.
3. After implementing the delete item feature, I was unable to display the new bag contents on my page for a long time. After spending some time on it, I learned that I needed to refresh the page in order for the DOM

contents to update. This reinstated the concepts related to DOM updation for me and was a good learning experience.

Overall, this set of assignments have helped me gain confidence in building an end-to-end website from scratch - right from the design phase to the implementation phase. I've learned how to build and host a website using vanilla HTML-CSS-Javascript, which is something I didn't have a lot of experience with before. It was also a great refresher on basic static web development.

New programming concepts learned

1. **Local storage:** Having always worked with a client-server architecture before, implementing this website using local storage was a new and interesting experience for me. I used local storage to maintain data locally across multiple pages of the website. I have implemented it to store items added to the bag, items added to the favorites list as well as updating current details for page templating purposes.
2. **Page templating**: In this assignment, I learned how to implement the concept of HTML templating through Javascript. Using the same HTML page, I was able to display different content for each product by injecting it into the HTML template via Javascript. This can be seen in action when you click on any product on the browse page.
3. **Creating a toast using vanilla JS:** In the past, I'd always used popup libraries to create my toast popup messages. In this assignment, I learned how to create a toast popup using vanilla JS. This toast lasts on the screen for 4 seconds and is styled as per the theme of the website. It appears when you add an item to either your bag or to your favorites list.
4. **Array.some**: To ensure that the user cannot add an item already present in the favorites list again, I used the array.some feature. Using this logic, I was able to figure out if the item was present in the favorites list. Only if it isn't would I add it to the list. This is seen in the add to favorites feature, where if you add the same item twice to favorites, it'll only appear once in the favorites list on the bag page.
5. **Using vanilla JS for creating a website from scratch:** Having always primarily worked with frameworks before, I decided to implement this entire website using vanilla HTML-CSS-JS. This proved to be a fruitful experience, as I learned how a website is implemented from scratch, without the help of any code starters, frameworks, or helpers. I also learned a lot about how one manipulates the DOM overall via plain Javascript.

Prototypes

Prototypes can be found in the files low-fi.pdf and high-fi.pdf in the repository.
In both the high as well as low fi prototypes for the bag page, I have added the additional features of deleting an item from the bag as well as viewing items added to the favorites list.