

PUI Assignment 6

Summary

Lessons Learned

- 1) The importance of planning your code out before implementing.
- 2) How to utilize local storage.
- 3) How to create an object and assign it properties.
- 4) How to create dynamic HTML (createElement, appendChild, etc.)
- 5) The usefulness of console in debugging.

Major Areas of Issue / Bugs

- 1) Array indexing - deleting messed up my indexing; learned to use the filter function
- 2) HTML in conjunction with HTML created with JavaScript
- 3) Calling elements with getElementById resulting in error because the value was null. Utilized if statements to ensure that it was only used if that ID existed on that HTML page.
- 4) Calling elements with getElementByClass resulting in error because apparently that function doesn't exist. Used getElementById instead.
- 5) Not having the correct Order Total or Number of Items in Cart due to the values being reset every page refresh or function call. Initialized them using an if else statement and saved them to local storage.
- 6) CSS formatting. Tried my best.

See next pages for more details on my lo-fi prototyping, high-fi prototyping, functionality of my four pages (Home, Product Page, Product Detail Page, Cart), future work, and Citations + Acknowledgements.

Part I

Previous Version of Bun Bun Bake Shop Cart Page

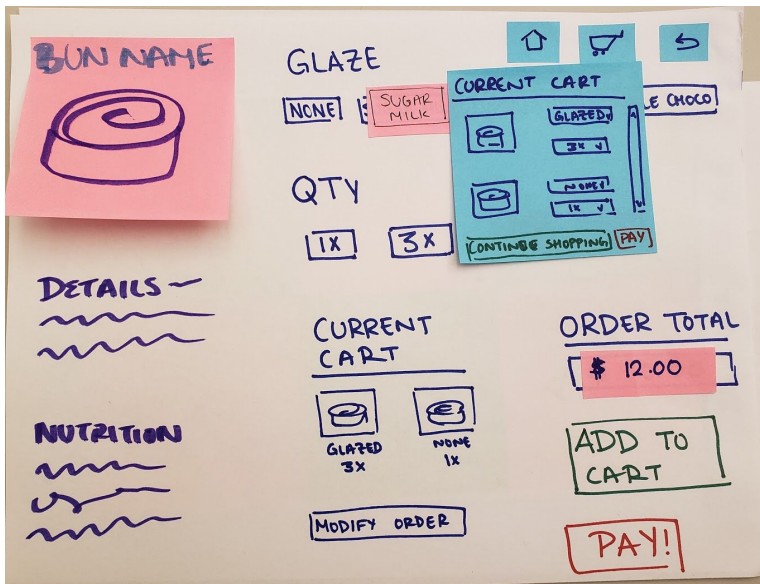


Fig. 1: HW 2 - Low-Fi (Paper)Prototype 3

This prototype did not have a full cart page. Instead, the cart is a pop-up window that appears when the user clicks on the shopping cart icon. It presents a scrollable list of the products in the cart (image, glaze, and qty). The properties of the bun (glaze and qty) can be changed within this window. The user can then choose to continue shopping for more buns or complete their order and pay.

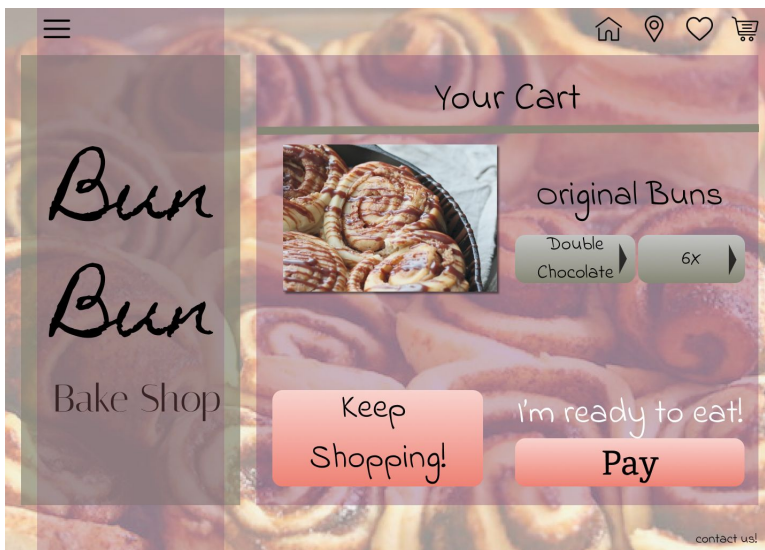


Fig. 2: HW 3 High-Fi Prototype

This prototype moved away from the idea of the paper prototype since I realized that having the pop-up window left the screen too messy and distracting for the user. Therefore I made the cart a full page. It includes the product information (image, name, glaze, and quantity). The glaze and quantity can be edited by the user in the cart - same as in the paper prototype. qty). The user can still choose to continue shopping for more buns or complete their order and pay.

Low-Fi Prototypes of Bun Bun Bake Shop Cart Page

Parallel Prototyping: Based on the features/ideas of the prototype from assignment 2, I created 3 versions of the cart page. Then, according to user feedback, I combined the best aspects of each to create prototype 4.

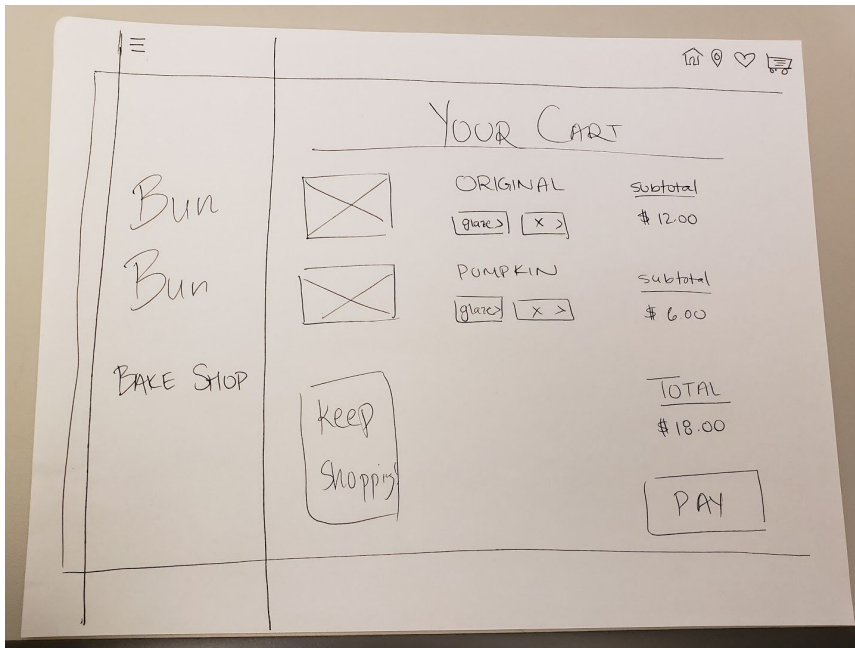


Fig. 2: Prototype 1

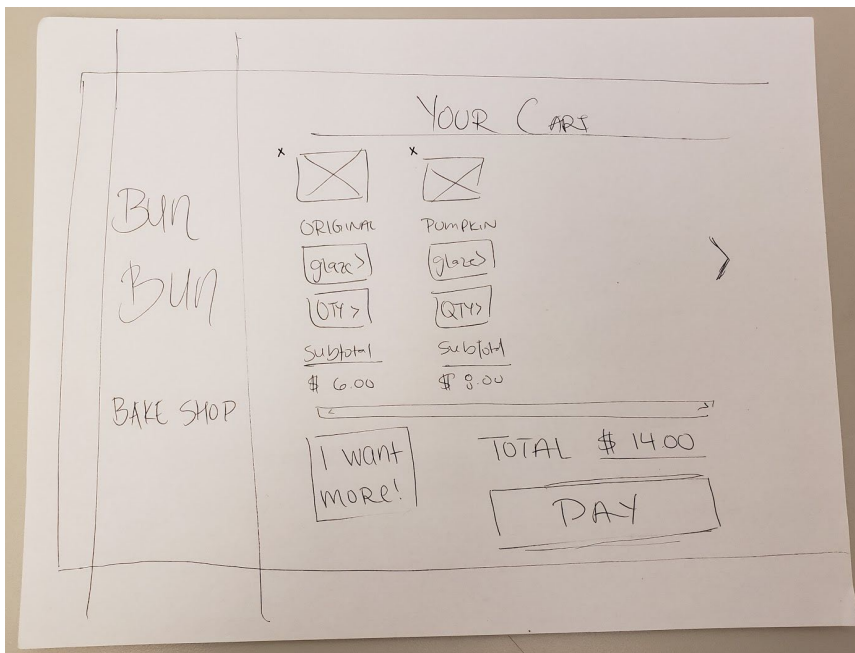


Fig. 3: Prototype 2

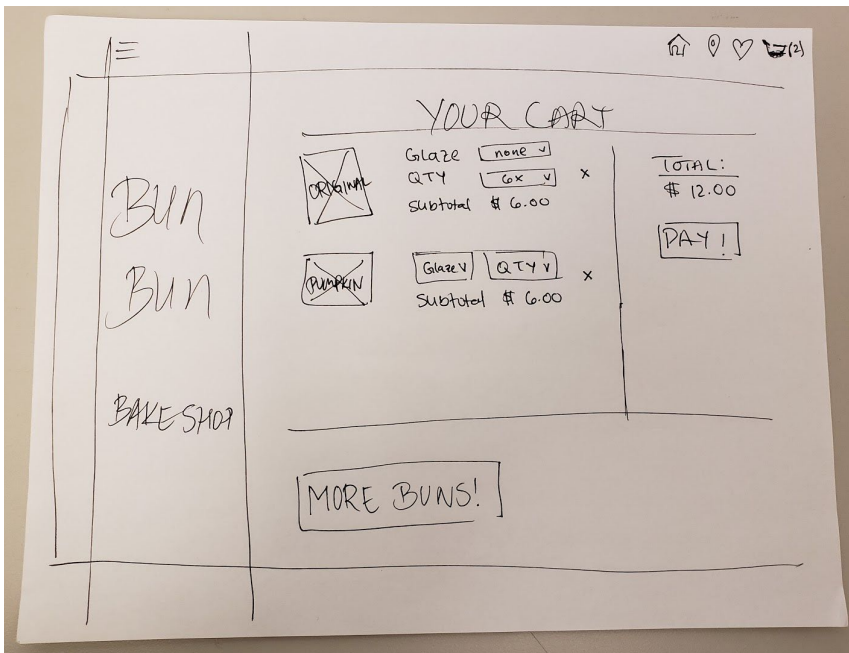


Fig. 4: Prototype 3

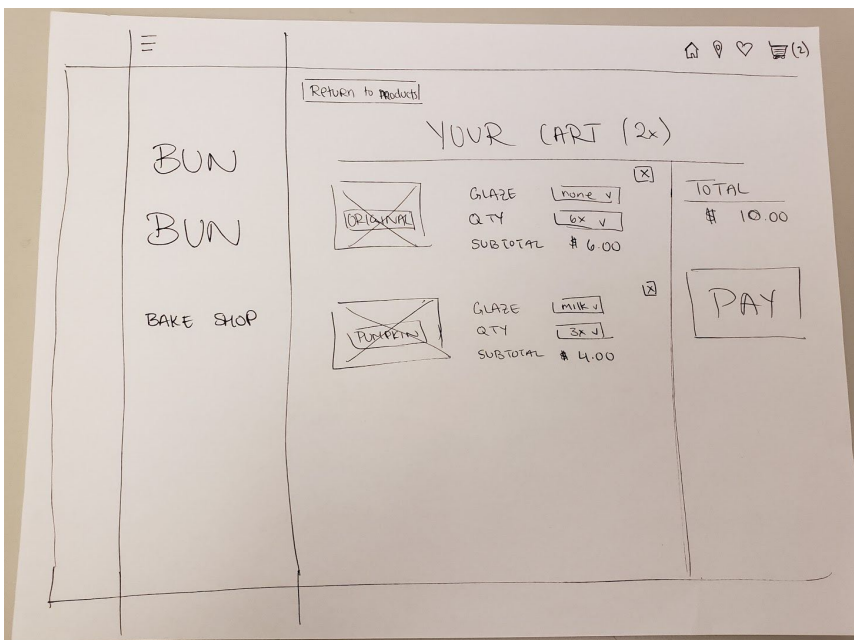


Fig. 5: Prototype 4

Ideas in all 3 Prototypes: Include product image, allow the user to update glaze and quantity, include a subtotal for each bun order, include order total, call to action in the form of a large pay button, a way for the user to return to the product page.

Ideas pulled from Prototype 1: Set the general idea for what should be on the page

Ideas pulled from Prototype 2: Delete button, a scroll bar to go through products if there are more than what fit the given space,

Ideas pulled from Prototype 3: Overall layout of the page - Product info on left (image, glaze, quantity, and subtotal) and order purchasing info on the right, number of items in the cart displayed by the cart icon, product name written over the image.

High-Fi Prototype of Bun Bun Bake Shop Cart Page



Changes from Low-Fi prototype: (1) moved the order summary information below the product info due to space constraints. (2) Changed some phrasing for clarity (ex. Total → Order Total), (3) Moved delete button to left of product info. (4) Did not include number of items in cart next to “Your Cart” because seemed redundant.

Part II

Home Page

User can access Product Page (See All Our Buns tab) and Cart Page (cart icon) from the Home Page.
The number of orders in the cart is indicated next to the shopping cart icon.

Product Page

User can access Home Page (home icon), Product Detail Page (product image), and Cart Page (cart icon) from the Product Page.

The number of orders in the cart is indicated next to the shopping cart icon.

User can click on any of the product images to get to the product details for that product (the same HTML file with dynamic content).

Product Detail Page

User can access Home Page (home icon), Product Page (See Other Products button), and Cart Page (cart icon) from the Product Detail Page.

The number of orders in the cart is indicated next to the shopping cart icon.

Respective product image shown upon page load.

Respective product name displayed upon page load.

User can click on a glaze. When clicked, the button changes color to indicate it was selected. When another button is clicked, the last button becomes “inactive” and the new selection changes to the selected color. The product image also updates.

User can click on a quantity. When clicked, the button changes color to indicate it was selected. When another button is clicked, the last button becomes “inactive” and the new selection changes to the selected color. The product subtotal also updates.

User can click on Add to Cart to add an order to the cart. This will update the number of orders indicated in the top right corner. The user cannot add an order to the cart unless both a glaze and quantity are selected.

User can click on the See Other Products button to get back to the product page.

Cart Page

User can access Home Page (home icon) and Product Page (Back to Buns button), from the Cart Page.

The number of orders in the cart is indicated next to the shopping cart icon.

The items in the user’s shopping cart appear in the cart section of the page. If there are more than can fit, the remaining content can be scrolled.

The orders can be deleted from the cart. When deleted, the number of orders in the cart is updated as is the order total.

The user can go back to the product menu page using the Back to Buns! Button.

For Future Work:

1. Provide the user feedback when an order is added to the cart. Either through a pop up or some other means.
2. Provide the user the ability to modify their orders in the cart. Update glaze and quantity.
3. Improve formatting of the shopping cart.
4. Improve legibility of bun name text over the images.
5. When there are no items in the shopping cart, the shopping cart div should say “Add Items to the Cart!” and possibly link them to the product page.
6. Get more images to better represent the products.

Citations & Acknowledgements

People: Advita, Kunal, Asit (MHCI SUI Students)

PUI Resources: Lab Assignments & Notes

Websites:

<http://www.myhtmltutorials.com/line.html>

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<http://api.jquery.com/text/>

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