

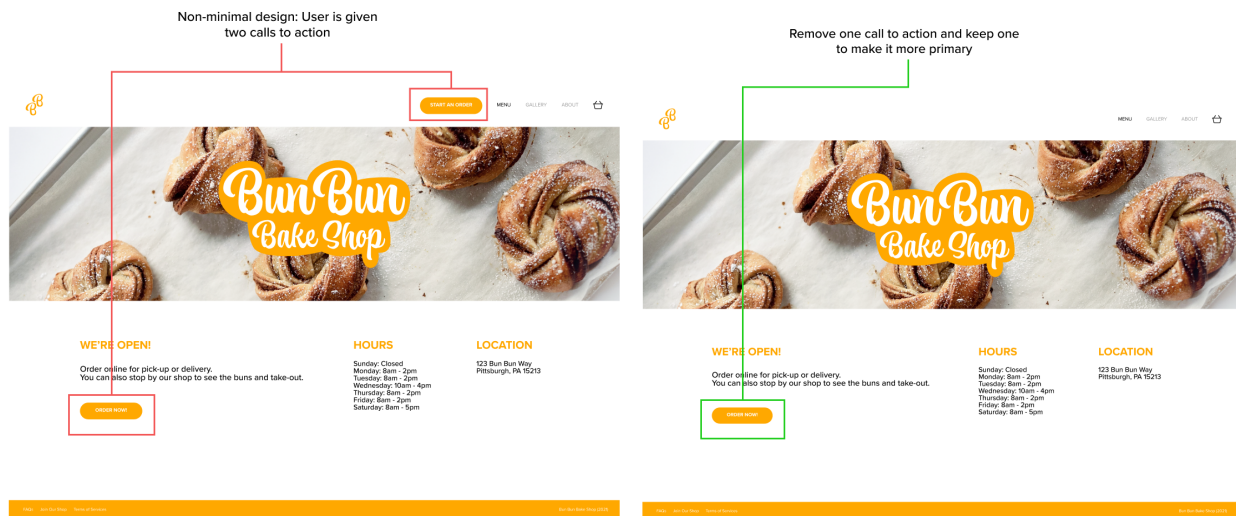
# Assignment 5: HTML and CSS Prototypes

Programming Usable Interfaces

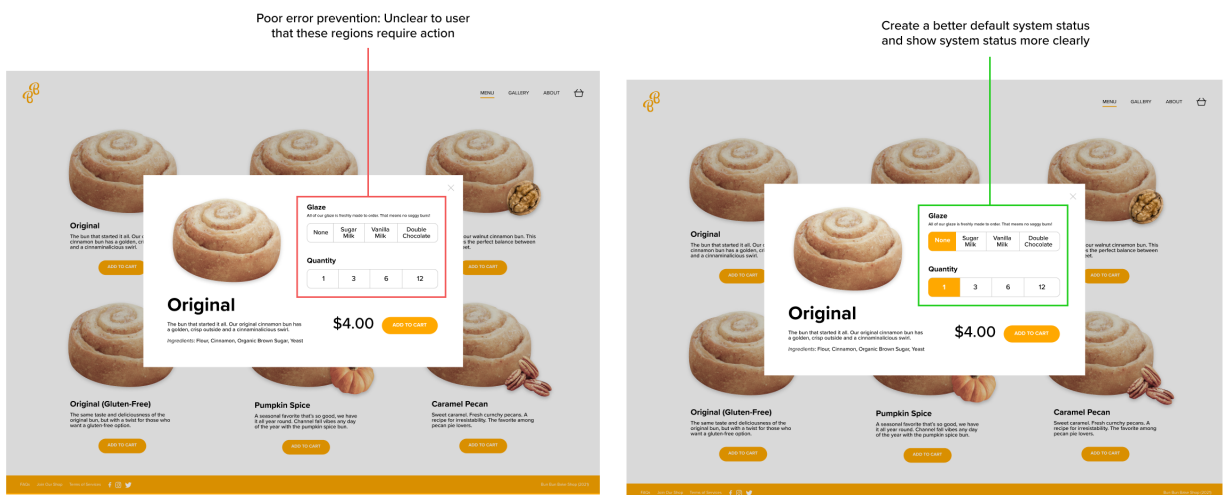
Michelle Lee

## Heuristic Evaluation

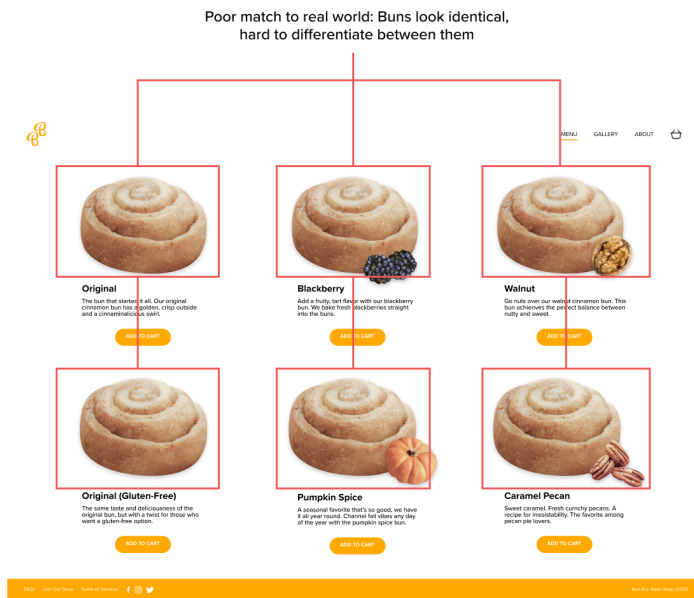
I began this assignment by conducting a heuristic evaluation on my Figma prototypes. I found 3 violations of the heuristics: non-minimal design, poor error prevention, and poor real world matching. These violations are annotated on the following images. To the right of the first two are the respective design changes I'd make to correct these violations. For the last violation — poor real world matching — I am unable to correct it due to my lack of access to real images of cinnamon buns with the particular toppings, but the idea would be to find better fitting images to show the user more easily and accurately the bun that they are ordering.



Two calls to action → One call to action



Introduce better default state and show system state



Images of buns don't match the real world well. Could redesign by using different images that are still uniform but show more easily and accurately what products are available.

## Implementation Challenges

Implementing the modal design for the product detail page was the source of the most bugs when I was programming. I didn't anticipate it to be so difficult but I soon realized that overlaying a new page onto an existing one is actually quite difficult given that we can only use vanilla HTML and CSS. After spending several hours on my own trying to develop my own modal using relative and absolute points (with no success), I looked online to find some examples of how others have made modals using only HTML and CSS. Luckily, I found several resources that helped me implement the modal. I had to create a separate "playground" file to isolate what parts I needed from the examples I sourced from the internet.

Another bug I encountered when implementing this website was the incorrect behavior of a footer. I wanted to create a footer that would always remain at the bottom of the page or the content, whichever ended last. For example, if the content didn't fill the entire page, I wanted the footer to still be at the bottom of the browser. However if the content exceeded the viewable screen, I wanted the footer to extend beyond the screen and stay at the bottom of the content. Figuring out how to implement this behavior took a lot of trial and error but what ultimately worked came from an exploration of unit types and the discovery of a minimum height attribute which came from browsing W3schools.com. I also used a similar "playground" file as I did with the module to isolate the feature and get it working fully before adding it to my existing HTML.

In retrospect, both of these implementation challenges could have been tried and developed on a git branch instead of a "playground" file. This would have been much easier to merge these branches back into the main branch instead of having to take the isolated features from a blank HTML and insert them into a previously developed HTML file. This could

introduce new bugs which is something we can avoid if we use branches and iteratively improve the design on a new branch.

### **Designing With Brand Identity**

While designing this website, I kept in mind that the star of the show was the cinnamon bun. Therefore, I used a lot of vivid imagery to show the richness and beauty of the baked goods. The images on the menu have the background cut out to blur the line between the site and the real world. I wanted to create an immersive experience for the user to feel as though they were able to touch the cinnamon buns they see, as though they were right in front of them. Additionally, while choosing the colors for the site, I wanted to maintain a brightness and excitement while displaying the warmth of a bakery which is where the bright orange color came from. While choosing the typography of the logo, I wanted to give it a hand lettering feel to it so that it would emphasize that the product being sold is hand made and fresh. All the other components of the site are fairly understated and minimal to give attention to the aforementioned. Overall, I designed the site to allow the user to immerse themselves into and imagine fresh, mouthwatering, hand-made cinnamon buns.