Final Project Writeup

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Responsiveness

1. 1280 x 768 (Standard 16:9)
2. 1180 x 820 (iPad Air - Horizontal)

Part 1: Motivation & Introduction

The primary goal of my website is to educate coffee enthusiasts and the general public, delving into the intricacies beyond their daily coffee routine. It aims to explore the diverse ratios in coffee drinks—espresso to water, steamed milk, milk foam, and chocolate—along with the captivating stories behind these beverages. Additionally, the website will spotlight four distinct coffee bean types, unraveling their origins, taste profiles, versatile use cases, and more. It also unravels the detailed steps of brewing espresso-based drinks. By consolidating this information, users can gain a comprehensive understanding of the rich and varied world of coffee.

In a digital landscape cluttered with fragmented information about coffee education, my website seeks to provide a one-stop destination to create a cohesive resource that offers a holistic perspective on the complexities of people's favorite brews.

Beyond informative content, the website distinguishes itself through innovative presentation techniques. Utilizing engaging vector art and animations, it creates an immersive experience. For example, upon entering the home page, a zoom-in animation mimics the sensation of stepping into a real coffee shop. Additionally, the vector art is intentionally placed using HTML perspective to simulate a three-dimensional coffee shop environment. Finally, navigating through the menu and bean sections replicates the familiarity of perusing a physical menu. An additional layer of dynamism is introduced through animations illustrating various coffee drink compositions on the menu page. This not only serves an aesthetic purpose but also facilitates a direct visual comparison between different beverages, aiding users in making informed choices. (249 words)

Part 2: Interactions

Landing page:

1. Click on "Enter" to enter the home page.

Home page:

1. Hover over the three vector arts — menu, bean, brewing to learn about what to expect in each of the three pages.
2. Click on the cards to enter the respective pages.

Menu page:

1. Hover over each menu item to see highlights.
2. Click into each of the menu items to see the details of each drink.
3. Click the coffee bean icon on the top left to go back to the home page.

Bean page:

1. Hover over each bean item to see highlights.
2. Click into each of the bean items to see the details of each bean.
3. Hover on the bean images to experience a change in scale.
4. Click the coffee bean icon on the top left to go back to the home page.

Brewing page:

1. Read through the page to learn about brewing steps for express-based drinks.
2. Click the coffee bean icon on the top left to go back to the home page.

Part 3: External Tools

External Tool 1:

- React JS Library
- Why: My webpage contains multiple reusable components that are interactive, which can be efficiently supported by react's component-based structure and state management.
- How: I drafted the pseudo code of various component levels for the website. Subsequently, I utilized guidelines from prior assignments to execute its implementation.
- What does it add to my website: It makes my codebase easier to manage.

External Tool 2:

- Framer Motion
- Why: I chose it because it is a powerful and flexible animation library for React and it simplified the creation of complex choreographed animations such as page transitions.
- How: I experimented with *animatePresence* component for mount/unmount transitions.
- What does it add to my website: It adds more sense of immersion to the environments I created.

External Tool 3:

- React Router
- Why: I chose it because it integrates smoothly with React's component structure to use routing as a part of the component hierarchy. It also uses a declarative approach to routing, which aligns with React's overall declarative nature and makes the code more intuitive to understand.
- How: I set up the router in App.tsx and incorporated *useNavigate* hook in every component to link between pages.
- What does it add to my website: It makes routing possible in my react-based application.

Part 4: Iterations

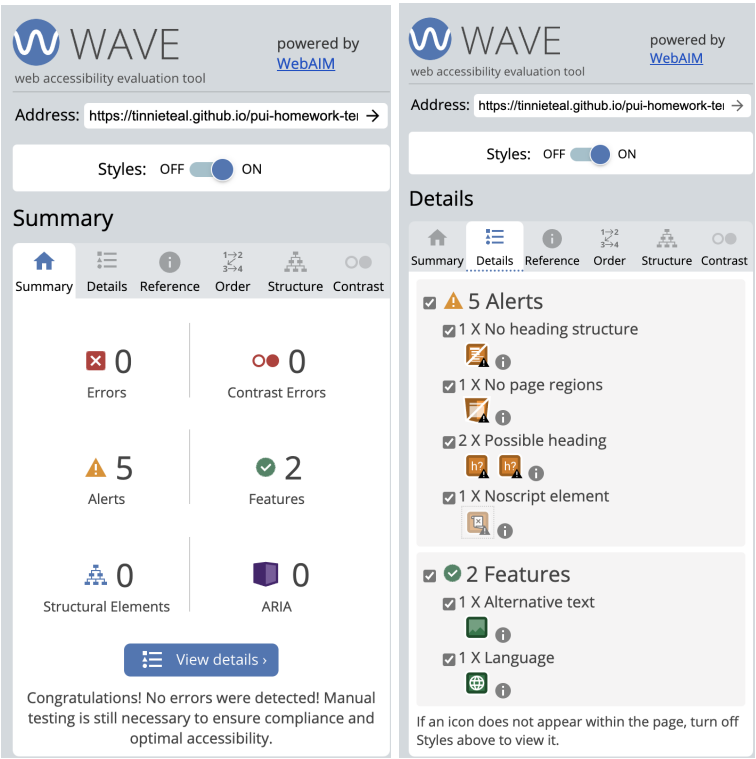
There was quite a jump from iteration 2 to my final design since I wanted to create a more immersive and flexible browsing experience. First, instead of a sequential scroll, I implemented a landing page and a home page, allowing users to select their preferred section for greater flexibility. The vector art on the homepage aims to simulate a real coffee shop, and animations, especially on the menu page, aid users in understanding the differences between drinks. I also made the purely educational theme of the website more consistent by removing the quiz section.

Part 5: Challenges

A significant project challenge lies in determining the ultimate design. In the latest in-class presentation, the predominant feedback was on refining the website to appear less like a presentation. Additionally, deploying the website poses a significant challenge, particularly when utilizing the React Router.

Part 6: Accessibility

1. Landing page



Unfortunately this tool does not support dynamic rendering of javascript so this is the only result I got.