

1-Website Description

Welcome to "The Interactive Kitchen," this is a vibrant website serves as a one-stop solution for managing a variety of kitchen tasks, which contains 4 pages, the cover page, the cart page (what are you planning to buy?), the recipe page, and the fridge page (what's in my fridge right now?).

This website's primary purpose is to help myself to have my kitchen stuffs more organized, since I always purchased a lot of groceries during shopping but later forgot about them and many of them went bad. And I also want to keep an record of my good recipes and no need to memorize all of them. Therefore I decided to design this website to not only help with organizing and having everything recorded down, but also make the kitchen experience interactive and enjoyable, inviting users to engage with features like a personalized fridge management system, a recipe repository, and a dynamic shopping cart. The interface is designed to be both effective and entertaining, ensuring that the love for cooking is complemented by an sufficient and delightful user interface.

The target audience are everyone who's looking to organize their grocery list to cooking recipes seeking inspiration for their next meal as well as a better planning for kitchen materials. (and everyone who always forgot to buy/overbuy things during grocery shopping!)

2-User Interactions (Screenshots regarding accessibility is attached at the end)

Cover page:

- Hover over the food items with a knife-looking cursor to experience the animated interaction.
- Hover over the menu to navigated to other pages.
 - Items will size up and the background color will change when hovered over them.

Cart page:

- Input food items through the input bar and add it to the cart list.
- Click on the listed items to check it, and click on the delete button to delete it.
 - Color change when hovered over. Crossed and marked with check mark when checked.

Recipe page:

- Click on the add button to add new recipes under all sections (main course, drink, and dessert).
- Click on input bars to input name and content for the recipes.
- Resize the content input bar by dragging on the lower right corner.
- Click on the navigation bar on the left, each bar will lead you to corresponding section.
- Click on delete button to delete the recipe.

Fridge page:

- Input food items through the input bar and add it to the fridge list.
- Click on the listed items to check it, and click on the delete button to delete it.

3-Libraries

- Anime.js
 - I chose anime.js because it's good for creating animations that can enhance user interfaces without slowing down the site.
 - I used it to animate the food items on the homepage, making them bounce away when hovered over, adding a playful touch right from the start.
- GSAP (GreenSock Animation Platform)
 - I use it to help user navigate on the recipe page through the navigation bar on the left.
 - It helped with making the website working smoothly and save user's time.

4-Iteration on Prototypes

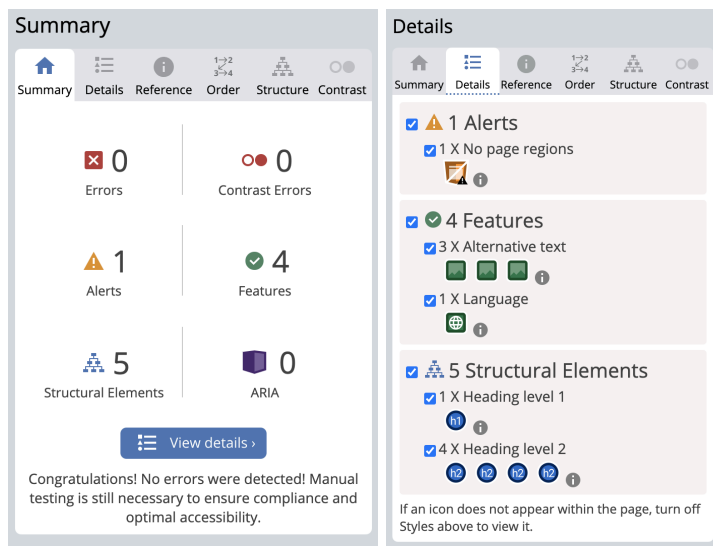
After initial feedback, I realized that my design does not corresponding to the purpose of the recipe website, so I redesigned it and add more functions to make it more like a tool website instead of the portfolio-like website. I added more interactions that users can make with the website, and incorporated a lot of color changing to make the progress entertaining. I also elaborated on the topic of recipe, and design several other pages like cart and fridge to maximize the website's usage. I also adjusted the responsive design for better viewing on thinner devices, ensuring a smooth experience corresponding to different screen sizes. (Please test with computer and narrowing down the webpage to see the responsive design)

5-Implementation Challenges

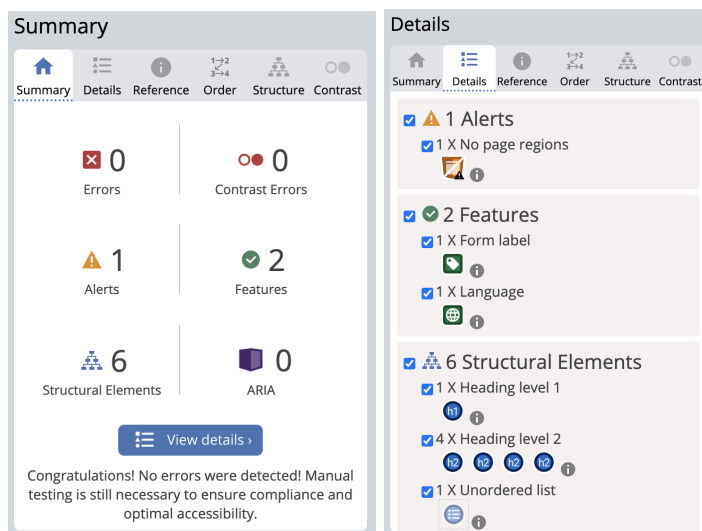
One significant challenge was getting the site to be fully responsive. It took a lot of trial and error with CSS to make sure everything looked great on all devices. Integrating anime.js animation and GSAP was also tricky, because I have to fully understand the function in order to apply them in my own code.

6-Appendix:

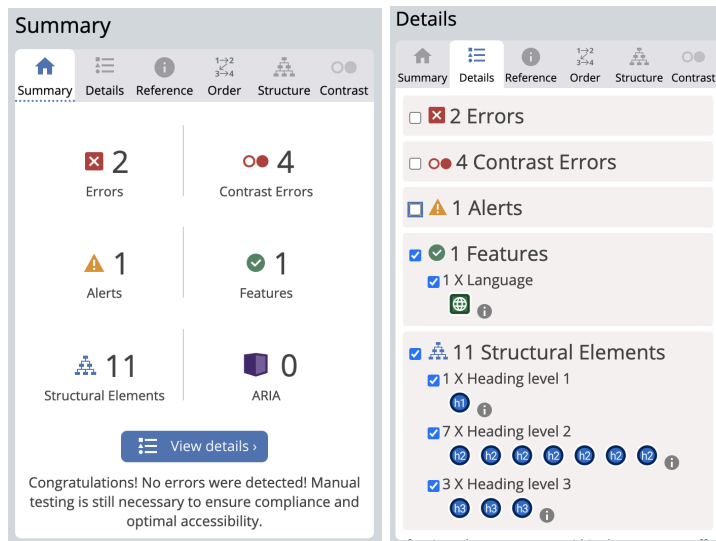
Cover page:



Cart page:



Recipe page: (the label for input here is not necessary since there's text in the input?
And the contrasts are actually fine?)



Fridge page:

