# Final Project Write Up PUI Fall 2022 Tyree Cowell

Part 1: Project Overview

For my final project I decided to make a personal website that merges my resume and portfolio. The goal of this site is to present myself and my accomplishments to potential employers and colleagues. More specifically, the website includes a personal statement, my resume, detailed information for 4 projects, and my contact information. To make the site more eye-grabbing, I went with a plant theme that is consistent across all the pages. This is mainly because green is my favorite color and I am passionate about plants. It was a simple way to include some personality in my design. I also hope to increase engagement with my site by including animations on nearly every page, mainly to make the presentation of images more dynamic.

#### Part 2: Interaction Flow

#### Responsive Sizing:

Please test the site on these two settings:

• Width: 1200px (optimal)

• Samsung Galaxy A51/71, width: 412

The following bulleted list details an ideal navigation through my website. Each high-level bullet is one of the menu items at the top of each page.

- Home page:
  - Scroll through the content (read the about me section)
  - Notice that when you hover on a project thumbnail the cursor turns to a pointer and the opacity decreases to indicate that they are clickable
  - Optional: click on one of the project thumbnails to see more information
  - Notice that when you hover over a menu item (at the top) it underlines (this is true for every page)
- Resume:
  - Scroll through the content
  - Notice that the graph displaying my skills is responsive
- Projects:
  - Hover over each project thumbnail to see the title of the project and a brief description
  - Click on the METALS capstone project (top left)
    - Scroll through the content
    - Notice that images in the project details section slide in from the left

- Optional: click on the link at the bottom of the page to see the full capstone website
- Return to the projects page by clicking on the menu item at the top of the page
- Click on the Educational Game Design project (top right)
  - Scroll through the content
  - Notice that the in-game screenshots are animated
  - Optional: click on the link at the bottom of the page to see the itch.io page for the game
  - Return to the projects page by clicking on the menu item at the top of the page
- Click on the Course Design project (bottom left)
  - Scroll through the content
  - Notice that the project details section is animated to show the flow of the course design process
  - Optional: click on the link at the bottom of the page to see the full course design
  - Return to the projects page by clicking on the menu item at the top of the page
- Click on the Undergraduate Thesis project (bottom right)
  - Scroll through the content
  - Optional: click on the link at the bottom of the page to read the full thesis
  - Optional: Return to the projects page by clicking on the menu item at the top of the page
- Contact:
  - View my contact information
  - o Optional: click on the link to my LinkedIn profile

#### Part 3: External Tool

For my external tool I chose to use chart.js. I chose this library because it seemed like a simple library for including charts with a high level of customizability. I primarily used it to display my skills on my resume page, but I also used it to display some success metrics for my METALS capstone project, though I am less satisfied with those visualizations. I believe that showing skills in a graphic format makes it easier for readers to quickly see and understand, rather than simply having a bulleted list.

#### Part 4: Prototype Iteration

#### Prototype file:

https://www.figma.com/file/v3wNOnO3wH9Nr39BAmAqWd/PUI-FP1---Design-Ideas?node-id=0 %3A1&t=mLTHQbUHilvMF4NG-0

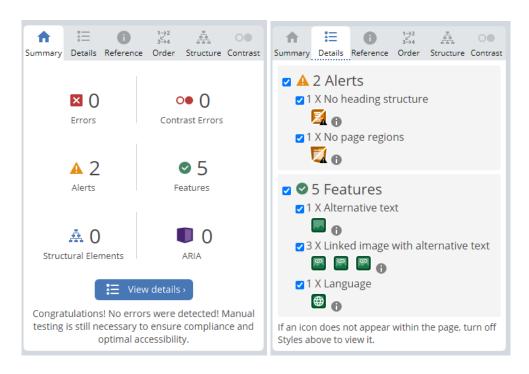
Most of my iteration decisions came from feedback from my classmates through our various in-lab presentations. As you can see in the Figma link provided above, the general theme and content of my website did not change much throughout the iteration cycles, but minor design decisions were made to improve the readability and aesthetics of the site. Rather than having the leaf image as the background for each page, I decided to use that image primarily for banners and section headers, making the pages a little less busy. I also incorporated animations in several places to offset the cognitive load of my users (e.g. putting project titles and summaries in overlays on the project page, instead of printing them directly on the screen). I also cut down significantly on the text in my individual project pages and made them more image focused so as not to lose the reader's attention.

#### Part 5: Challenges

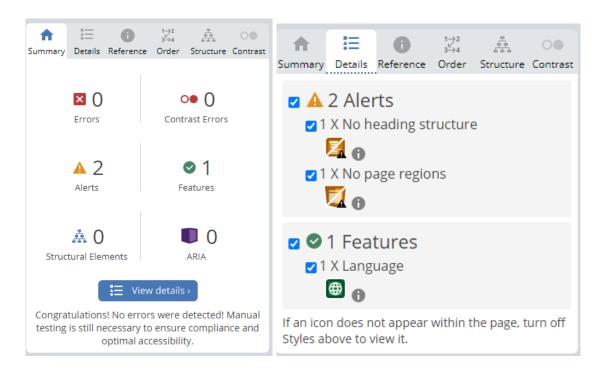
My first challenge was that I tried to include too much content in my original designs and ultimately, decided to present only 4 projects instead of 6 to save some time. Using chart.js came with a few challenges as not all of the customizable options were intuitive to use. I really wanted to put the text for the doughnut charts on my Capstone page in the middle of the doughnuts but it was ultimately too difficult to figure out. Finally, I feel like my strengths aren't necessarily in visual design, so it was challenging to make a site that felt clean and professional.

#### **Appendix: Accessibility Evaluation**

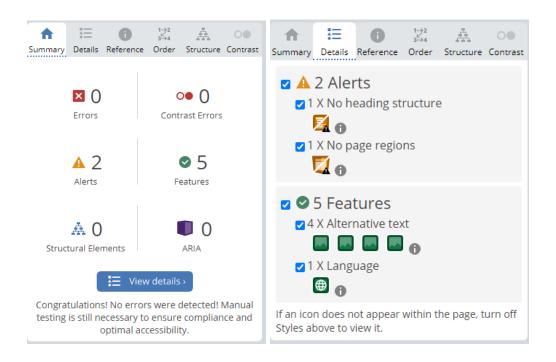
#### Home Page:



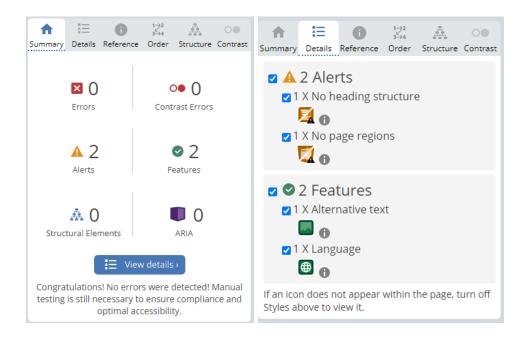
### Resume Page:



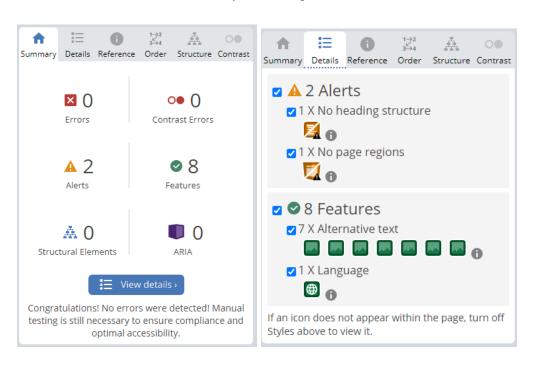
#### Projects Page:



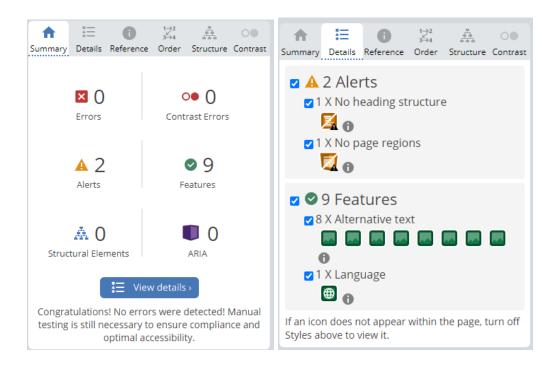
# Contact Page:



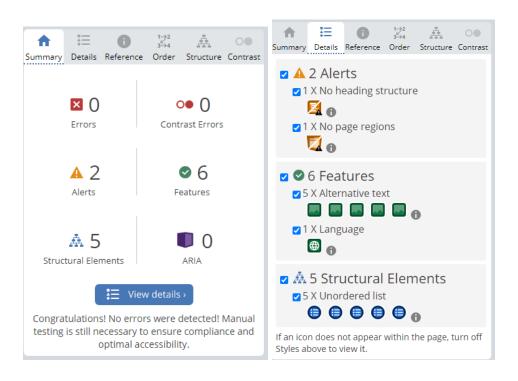
# Capstone Page:



# Educational Game Design Page:



# Course Design Page:



# Undergraduate Thesis Page:

