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CIT 312

Prof. Kane

5/7/25

**Final Project Documentation**

**Final Project Links:**

Repository: <https://github.com/MichaelLee44/FP_MK>

GitHub Pages: <https://michaellee44.github.io/FP_MK/#>  
  
**Responsiveness**:

In a personal first, responsiveness was achieved on my final project without using any media queries. Instead, responsiveness was achieved only with Bootstrap. I used bootstrap rows and columns inside of a bootstrap container to make the quadrant section of the document dynamic. I also used bootstrap to create a hamburger menu for the navbar at the top.

A screen shot of a computer program

AI-generated content may be incorrect.

A screen shot of a computer program

AI-generated content may be incorrect.

**Hamburger Menu:**

Throughout this course, I’ve learned how to incorporate hamburger menus with native CSS (media queries and pseudo-classes) and how to incorporate hamburger menus with bootstrap. For this project particularly, I chose to use bootstrap to create a hamburger menu, to save time since writing the CSS to achieve a functional hamburger menu takes longer than using bootstrap classes to create a functional hamburger menu

 Hamburger button that expands/collapses the nav menu:

A screen shot of a computer code

AI-generated content may be incorrect. Nav that expands and collapses for hamburger menu:

**Use of CSS Pre-Processors (LESS/SCSS):**

For this project I decided to use **LESS** over SCSS just because I am generally more comfortable with using LESS. I used variables in less to store the brand colors and font that I would use for the final project. Note: United Sans is one of the Purdue brand fonts which can be installed for free.

A screenshot of a computer program

AI-generated content may be incorrect.

A computer screen shot of white text

AI-generated content may be incorrect. I also used LESS to create some styles to reuse frequently for text:

**Favicon Rationale**

A black circle with white text

AI-generated content may be incorrect.A white background with black text

AI-generated content may be incorrect. My primary rationale when going into creating a favicon for the CIT Poster was to keep it brand consistent. I created a PNG photo using Microsoft Paint and then used favicon.io to turn the PNG file into a .ico file. The favicon contains a black circle that has a “Rush” colored border and “Boilermaker Gold” text saying “CIT.” For the text, I also used **Impact** which is given as an alternative font for **United Sans**, to keep things brand consistent.

**Bootstrap use:**

For this particular project I heavily used bootstrap, and I in fact think I exceeded 4 uses of bootstrap features/classes. Here’s a list of ways in which bootstrap was used.

1. I used bootstrap **containers, rows, and columns**. You will notice that each important segment of content is contained inside of a bootstrap container (there is one for the 4 quadrants, applied computing, and the quiz).
2. I made a functioning navigation menu using the bootstrap **navbar** classes.
3. I used bootstrap **icon** classes to incorporate icons in the nav-links, multiple choice quiz answers, and interactable job titles on applied computing.
4. I used bootstrap **tooltips** to add a brief description of each job title shown in the section called “Applied Computing.”