

Final Project Report

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Topic: Personal Portfolio Website

- **General Info:**

- Final Project Presentation Slides

Link: https://docs.google.com/presentation/d/18f6anrj7UWc4Uu6kQx2whelqQWqeS3vqgEovJrhyOM4/edit#slide=id.g262cddddd93d_0_14

- Site Link (Coding): https://b04310041.github.io/SI539_final_project/
- Git Repository Link (Coding): https://github.com/b04310041/SI539_final_project

- **Weekly Progress 1**

- Hours spent: 15 hours

- Challenges:

- Organize the information architecture for different pages
- Adjust different arrangements for various screen sizes

- Successes: (completed index.html)

- HTML

- Created an HTML5 document structure.
- Included meta tags for character set and viewport settings.
- Linked to an external stylesheet (style.css) and a font from Google Fonts.
- Included the Font Awesome kit for icons.
- Defined the structure of the webpage with sections such as profile, education, experience, and projects.
- Added social media links with corresponding icons.
- Implemented a navigation system with links to different sections.
- Created a "Skip to Main Content" link for accessibility.
- Included a JavaScript script for opening and closing a navigation menu.

- CSS:

- Reset default margin, padding, and box-sizing for all elements.
- Applied a background gradient to the body.
- Styled the profile section, including the image, name, role, social links, address, and contact details.
- Styled the heading section with a title and navigation toggle button.

- Styled the main content section with information about the person and a section on what they do.
- Styled cards for different skills, including data analysis, data visualization, machine learning, and project management.
- Styled the navigation menu for different screen sizes using media queries.
- Added hover effects for social links, email link, and navigation items.
- Made adjustments for larger screens, changing layout and styling accordingly.
- Included styles for reduced motion preference, disabling transitions.
- JavaScript:
 - Defined functions openNav and closeNav for toggling the navigation menu.
 - Additional Notes:
 - Ensured responsiveness with media queries for different screen sizes.
 - Used flexbox and grid for layout.
 - Applied hover effects for improved user experience.
 - Considered accessibility by including a "Skip to Main Content" link.
 - Considered reduced motion preferences for users.

- **Weekly Progress 2**

- Hours spent: 3 hours
- Challenges:
 - Identify some errors by using validators
- Successes:
 - Completed education.html, work.html, and projects.html
 - Increase accessibility
 - Add "Skip to Main Content"
 - Each page has a "Skip to Main Content" link that only appears when it has focus (using the tab key)
 - Add aria-label attribute to empty link / button
 - Improved accessibility for scrollable content:
 - Made scrollable content keyboard-accessible, allowing users to navigate through content effortlessly.
 - Applied tabindex="0" to the scrollable container, ensuring it receives focus and is accessible via keyboard navigation.
 - Utilized :focus-visible styling for a clear focus indicator, improving visibility and usability for users navigating with the tab key.

Final Results

1. Improved User Experience: Cohesive information architecture and responsive design significantly enhanced user experience across devices.
2. Enhanced Accessibility: Inclusion of a "Skip to Main Content" feature and ARIA attributes improved website accessibility for all users.
3. Error Identification: Regular validation checks led to prompt identification and resolution of errors during development.
4. Scrollable Content Accessibility: Improved keyboard accessibility and visual indicators enhanced usability for all users.

Lessons Learned

1. Continuous Testing: Regular validation is essential for early error detection, emphasizing the need for continuous testing.
2. Accessibility Priority: Prioritizing accessibility from the start contributes to ethical standards and a better user experience.
3. Responsive Design Challenges: Challenges in adapting layouts highlight the importance of thorough testing across devices.
4. User-Centric Design: A user-centric approach results in a more intuitive and user-friendly website.