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# Deliverable 4

Accessibility for large screens and functionality with JavaScript

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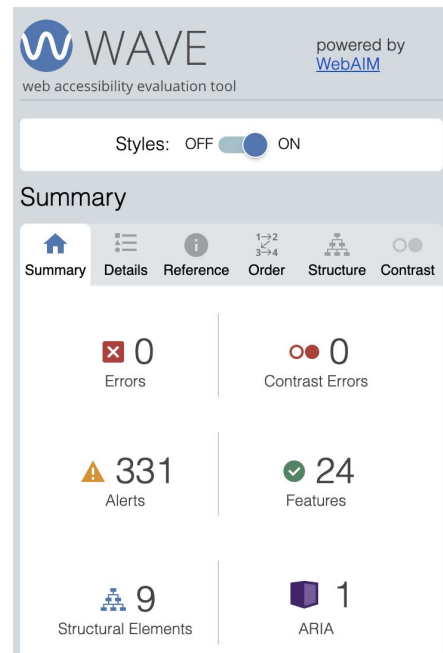
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# Overview

- Accessibility: How the website meets WAVE and aXe validation for accessibility.
- JavaScript Enhancements: Features such as dynamic navigation, dark mode toggle, and interactive elements.
- Large Screen Optimization and Responsiveness: Ensuring the site works well on all screen sizes without relying on max-width.
- CSS Quality: Clean and modular CSS was used for styling for easy updatability.

# Accessibility Features

- My website is designed to meet accessibility standards such as:
  - Wave and aXe Validation: Passes accessibility tests with zero errors.
  - Color Contrast: Ensures sufficient contrast between text and background colors both in dark and light mode.
  - Keyboard Navigation: Users can navigate the site easily using only a keyboard (tab index).
  - Alt text and color scheme adaptation for users needs.



# JavaScript Enhancements

JavaScript was used to help add dynamic and interactive features:

- Dark Mode Toggle: Users can switch between light and dark themes with a smooth transition.
- Responsive Navigation: The home button and dark mode toggle buttons stay on the screen while scrolling for easy access and navigation.
- Interactive animations: Website sections and elements use animation transitions to help enhance user experience.
- Efficient and well organized code: Modular well commented and organized code, benefitting maintainability.

# CSS Quality and Organization

The CSS for the site is:

- Clean and Modular: Well organized into reusable classes and well commented to ensure maintainability.
- Responsive Flexbox/ Grid Layouts: Flexbox and CSS Grid ensure elements are flexible and adapt based on screen size.
- Animations and Transitions: Smooth transitions for things such as hover and dark mode.

# Large Screen Optimization and Responsiveness

The website is fully responsive and adapts across screen sizes:

- Fluid Layouts: Uses Flexbox and Grid to ensure everything scales fluidly without using max-width.
- Screen Specific Sizing: Using fraction and rem sizing for scalable text and images, maintaining usability and readability on all screen sizes.
- No max width: Responsive design achieved through flexible layouts and media queries.

# Navigation and User Experience

Website is designed with ease of navigation in mind:

- Keyboard Accessibility: Users can navigate the site using only keyboard (via tab index)
- Smooth transitions and animations allow for improved user experience.
- Home navigation button stays fixed on the screen for easy and fast accessibility.
- Dark mode toggle also stays fixed on the screen for easy accessibility.

# Conclusion

To summarize:

- Passes WAVE and aXe accessibility tests.
- Uses JavaScript to enhance user experience, including dark mode toggle and dynamic navigation.
- Features clean, well organized CSS.
- Is responsive for all screen sizes without utilizing max-width
- Fully accessible and designed to meet the needs of all users.