

Performance and Accessibility Findings Report

1. Performance Findings

1.1 Page Load Time

- Finding: The initial page load time exceeds the recommended 2-second threshold.
- Recommendation: Optimize images and assets, implement lazy loading for off-screen content, and leverage browser caching.

1.2 Large JavaScript Files

- Finding: JavaScript files are large and impact load times.
- Recommendation: Minify and bundle JavaScript files. Consider code splitting to load only necessary scripts.

1.3 Unoptimized CSS

- Finding: CSS files are not minified and have redundant styles.
- Recommendation: Minify CSS files and remove unused CSS. Use tools like PurifyCSS or UnCSS.

1.4 Server Response Time

- Finding: Server response time is higher than desired.
- Recommendation: Optimize server-side processes and queries. Implement server-side caching where appropriate.

1.5 Mobile Performance

- Finding: Performance issues are more pronounced on mobile devices.
- Recommendation: Implement responsive design principles, and use performance testing tools to identify and fix mobile-specific issues.

2. Accessibility Findings

2.1 Alt Text for Images

- Finding: Several images are missing alt text or have non-descriptive alt attributes.
- Recommendation: Add meaningful alt text to all images. Ensure that alt text describes the image's purpose or content.

2.2 Color Contrast

- Finding: Some text elements have insufficient contrast against their backgrounds, affecting readability.
- Recommendation: Ensure that text color contrasts sufficiently with the background, adhering to WCAG guidelines (at least 4.5:1 for normal text and 3:1 for large text).

2.3 Keyboard Navigation

- Finding: Certain interactive elements are not accessible via keyboard navigation.
- Recommendation: Ensure all interactive elements are focusable and operable using the keyboard. Implement logical tab order and focus management.

2.4 ARIA Landmarks

- Finding: Missing ARIA landmarks for navigation and content sections.
- Recommendation: Use ARIA landmarks (e.g., `<header>`, `<nav>`, `<main>`, `<footer>`) to improve navigation for screen reader users.

2.5 Form Labels

- Finding: Some form fields lack associated labels, making them inaccessible to screen readers.
- Recommendation: Ensure all form fields have explicit and correctly associated labels.

2.6 Error Messages

- Finding: Error messages in forms are not announced to screen readers.

- Recommendation: Implement ARIA live regions to announce error messages and validate user input.