

Project Report: Mobile-First Website Design and Styling

1. Project Overview

- This project focuses on creating a mobile-first, fully responsive, and accessible website. The goal is to enhance user experience through efficient CSS, animations, and adherence to accessibility standards.
 - The content includes team and individual results for a sports event, along with a gallery section showcasing images from the event.
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2. Rubric Areas and Implementation

Mobile-First Design (10 pts)

- Implemented mobile-first design by starting with base styles for small screens and progressively enhancing for larger screens using media queries (@media (min-width: 600px), @media (min-width: 768px)).

```
@media (max-width: 768px) {  
    nav ul {  
        flex-direction: column;  
        gap: 10px;  
    }  
  
    nav a {  
        display: block;  
        width: 100%;  
        text-align: center;  
    }  
}  
  
/* Responsive Design */  
@media (min-width: 600px) {  
    .individual-results {  
        flex-direction: row;  
        flex-wrap: wrap;  
        gap: 20px;  
    }  
  
    .athlete {  
        width: calc(50% - 10px);  
    }  
}  
  
@media (min-width: 768px) {  
    .athlete {  
        width: calc(33.33% - 10px);  
    }  
}
```

- The navigation menu, results sections, and gallery were all designed to display optimally on mobile devices before adapting to desktop screens.
- Ensured that all elements are touch-friendly and maintain a clean layout on smaller screens.

CSS Quality (20 pts)

- The CSS is well-organized, utilizing variables for colors to maintain consistency between light and dark modes (ex: --primary-color: #84a6dc; --background-color: #ffffff;)

```
/* Light Mode: Default */
:root {
    --bg-color: #ffffff;
    --text-color: #333333;
    --primary-color: #84a6dc;
    --secondary-color: #f4f4f4;
    --border-color: #dddddd;
}

/* Dark Mode */
[data-theme="dark"] {
    --bg-color: #1a1a1a;
    --text-color: #f0f0f0;
    --primary-color: #234586;
    --secondary-color: #333333;
    --border-color: #444444;
}
```

- Added detailed comments throughout the CSS file to explain the purpose of each styling section, ensuring readability.

```
/* Paragraph Styles */
p {
    margin: 15px 0; /* Adds space between paragraphs */
    line-height: 1.8; /* Increases line spacing for better readability */
}

p .athlete {
    display: inline; /* Keeps the athlete names inline with the text */
    background: var(--secondary-color);
    padding: 2px 4px;
    border-radius: 4px;
    margin: 0 2px; /* Adds a small space around the names */
    box-shadow: 0 1px 2px rgba(0, 0, 0, 0.1); /* Subtle shadow for emphasis */
    text-decoration: none; /* Ensures there's no underline */
}
```

- Incorporated advanced styling techniques such as **responsive tables**, **hover effects**, and a **scrollable gallery**.

Crooks (19:37.10), Juan Luis Llanes (19:48.00), and Paxton Alicandro (21:13.00). This race showcased the team's strong depth and improvement as they continue the season.

Team Results

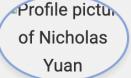
Place	Team	Score
1	Livonia Churchill	95
2	Ann Arbor Pioneer	126
3	White Lake Lakeland	127
4	Plymouth	134
5	Ann Arbor Huron	164
6	Romeo	186
7	Ann Arbor Skyline	244
8	Grand Blanc	247
9	Mason	280

Individual Results



Matthew Guikema

Place 23.
Time 17:35.10
Grade 10



Nicholas Yuan

Place 28.
Time 17:44.40
Grade 10

- Used CSS Flexbox for aligning elements like the athlete cards and ensuring responsiveness.

Animations (10 pts)

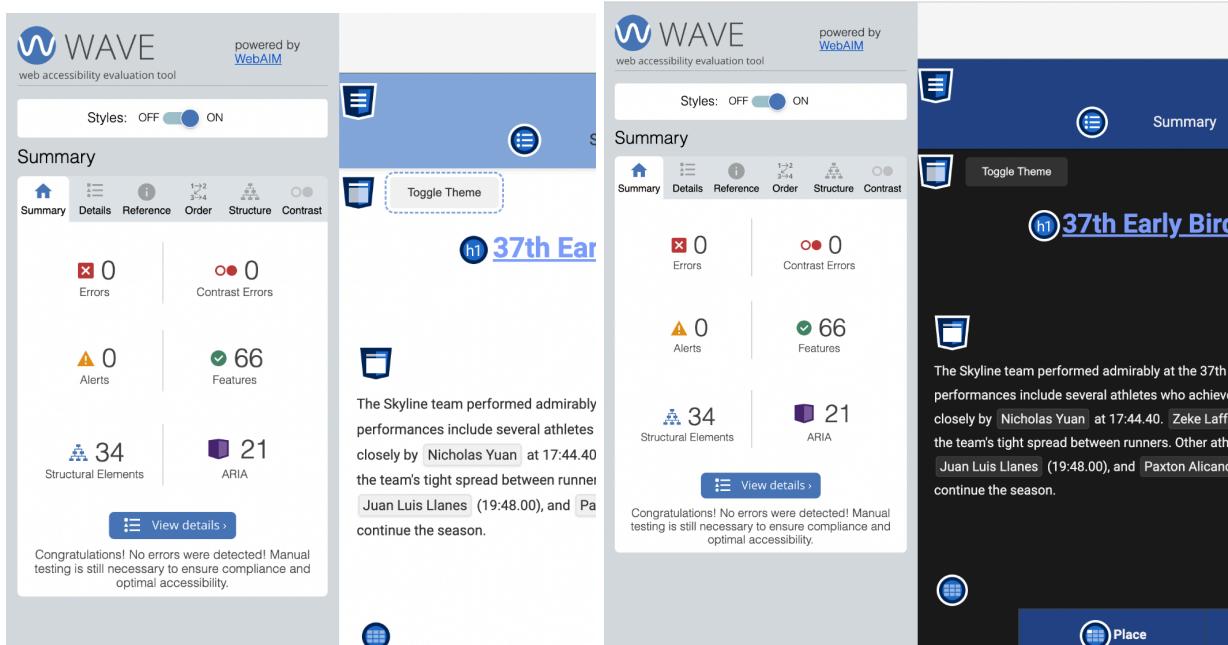
- Added smooth animations for hover effects, such as slight scaling of gallery images and athlete cards to create a dynamic experience.
 - Example: Movement and shadow when hovering over an athlete card:



- Implemented transitions for toggling between light and dark modes for smoother visual adjustments.
- Used CSS **transition** properties for a gradual change of elements like the background color and hover effects.

Accessibility (15 pts)

Passes WAVE Validation (5 pts): Ensured that all images include descriptive **alt** text and that the site structure follows semantic HTML.



- **Passes aXe Validation (5 pts):** Addressed potential issues detected by aXe, such as color contrast and focus states for interactive elements.

37th Early Bird Open Mens 5000 Meters HS Open 5K

Thu Aug 29 2024

The Skyline team performed admirably at the 37th Early Bird Open, securing 7th place overall with a team score of 186. Notable individual performances include several athletes who achieved personal records (PRs). Matthew Guikema led the team with a time of 17:35.10, followed closely by Nicholas Yuan at 17:44.40. Zeke Lafferty, Jack Robichaud, and Gustaf Finn rounded out the top five for Skyline, contributing to the team's tight spread between runners. Other athletes who achieved PRs include Oskar MacArthur (18:37.50), Grayson Crooks (19:37.10), Juan Luis Llanes (19:48.00), and Paxton Alicandro (21:13.00). This race showcased the team's strong depth and improvement as they continue the season.

Team Results

Place	Team	Score
1	Livonia Churchill	95
2	Average Distance	186

The screenshot shows the axe DevTools extension in a browser. The main panel displays a large '0' indicating no issues found. Below it, a table shows the breakdown of issues: Automatic Issues (0), Guided Issues (0), Manual Issues (0), Critical (0 Serious), and Moderate (0 Minor). At the bottom, there are buttons for 'Best Practices: ON' and 'WCAG 2.1 AA'. A message box on the right says 'You have (0) automatic issues, nice!' with a 'TRY FOR FREE' button.

- **Addresses Prefers-Reduced Motion (5 pts):** Implemented the `prefers-reduced-motion` media query to disable animations for users who prefer less motion.
 - Example: hovering over athlete card results in no movement



- **Reacts to User Color Schemes (5 pts):** Used CSS variables for easy theme switching between light and dark modes, adapting to user preferences using a toggle button.

The screenshots illustrate a responsive web design that adapts to the user's color preference. The top row shows the header and a 'Toggle Theme' button. The bottom row shows the content area with a 'Toggle Theme' button. The content area contains text about the 37th Early Bird Open Mens 5000 Meters HS Open 5K race, including the date (Thu Aug 29 2024) and a summary of team performance and individual PRs.

Light Theme (Top Row):

- Header: "Gallery" (blue bar)
- Button: "Toggle Theme" (light gray button)
- Section: 37th Early Bird Open Mens 5000
Meters HS Open 5K
- Date: **Thu Aug 29 2024**
- Text: The Skyline team performed admirably at the 37th Early Bird Open, securing 7th place overall with a team score of 186. Notable individual performances include several athletes who achieved personal records (PRs). Matthew Guikema led the team with a time of 17:35.10, followed closely by Nicholas Yuan at 17:44.40. Zeke Lafferty, Jack Robichaud, and Gustaf Finn rounded out the top five for Skyline, contributing to the team's tight spread between runners. Other athletes who achieved PRs include Oskar MacArthur (18:37.50), Grayson Crooks (19:37.10), Juan Luis Llanes (19:48.00), and Paxton Alicandro (21:13.00). This race showcased the team's strong depth and improvement as they continue the season.

Dark Theme (Bottom Row):

- Header: "Gallery" (dark blue bar)
- Button: "Toggle Theme" (dark blue button)
- Section: 37th Early Bird Open Mens 5000
Meters HS Open 5K
- Date: **Thu Aug 29 2024**
- Text: The Skyline team performed admirably at the 37th Early Bird Open, securing 7th place overall with a team score of 186. Notable individual performances include several athletes who achieved personal records (PRs). Matthew Guikema led the team with a time of 17:35.10, followed closely by Nicholas Yuan at 17:44.40. Zeke Lafferty, Jack Robichaud, and Gustaf Finn rounded out the top five for Skyline, contributing to the team's tight spread between runners. Other athletes who achieved PRs include Oskar MacArthur (18:37.50), Grayson Crooks (19:37.10), Juan Luis Llanes (19:48.00), and Paxton Alicandro (21:13.00). This race showcased the team's strong depth and improvement as they continue the season.

Overall Presentation and Clarity (10 pts)

- The site layout is clean, with a consistent design and easily navigable sections. The mobile view is prioritized, ensuring that all content is easily accessible.
 - The project includes well-structured HTML and CSS files, with clear documentation for each design decision.
 - The PDF itself is organized with clear headings for each rubric criterion, screenshots demonstrating key features, and descriptions of how each requirement was met.
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3. Screenshots and Validation Proofs

- **Screenshots:** Included images of the mobile view, scrollable gallery, animations, and the toggle between light and dark modes.
 - **Validation Proofs:** Attached screenshots of passing results from WAVE and aXe validation tools.
 - **Example of Prefers-Reduced Motion:** Displayed how the animations behave when `prefers-reduced-motion` is enabled.
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4. Summary

- This project demonstrates a strong understanding of mobile-first design principles, modern CSS practices, and accessibility standards.
- The approach taken ensures a positive user experience across devices, with enhanced visual appeal through animations and responsive layout adjustments.
- By focusing on readability, responsiveness, and accessibility, the website serves as an example of professional web design tailored for mobile users.