

Code Report for Sustainability Summit Webpage

1. HTML Structure:

The HTML structure is well-organized, using semantic tags to define different sections of the webpage. This promotes readability and accessibility.

2. CSS Frameworks and Libraries:

Bootstrap Icons: The webpage uses Bootstrap Icons for scalable vector icons. This is a good choice for consistent and visually appealing icons.

3. External Styles and Scripts:

Bootstrap Icons and Swiper CSS/JS: External styles and scripts are properly linked, ensuring the use of Bootstrap Icons and the Swiper library for a responsive and interactive design.

4. Intersection Observer Implementation:

The Intersection Observer is effectively implemented for lazy loading images. This enhances performance by loading images only when they are about to enter the viewport.

5. Sections and Components:

Navbar: A responsive navbar with a hamburger menu for mobile devices, providing easy navigation.

Hero Section: A visually appealing hero section with a call-to-action button for user engagement.

Speaker Section: Utilizes the Swiper library for a slider showcasing speakers with images and details.

Volunteer Section: Displays volunteer opportunities with images and descriptions.

Highlight Section: Showcases highlights with a "Load more" button for additional content.

Initiative Section: Highlights impactful initiatives with a "Load more" button for additional content.

Contact Section: Provides contact details and a form for inquiries, along with a visually appealing design.

Footer Section: Contains copyright information and links to terms and conditions and privacy policies.

6. Design in Figma:

I used figma to design the website taking advantage of figma and how to build website using components.

See design: [Green Community Hub](#)

Certainly! Let's delve into the details of the animation, Swiper implementation, lazy loading of images using Intersection Observer, and how these contribute to the overall user experience.

1. Animation:

Hero Section Animation:

The hero section features a captivating animation, enhancing visual appeal and drawing attention to key information. It includes a subtle layer image, creating a dynamic and engaging background.

Swiper Library Animation:

The Swiper library is employed for the speaker section, creating a smooth and interactive slider. The transition effects between speaker cards are visually appealing and provide a seamless experience for users.

2. Swiper Implementation:

Speaker Section:

Swiper Initialization: The Swiper library is initialized for the speaker section, transforming the card container into a responsive and touch-friendly slider.

Responsive Design: Swiper adapts to different screen sizes, ensuring a consistent and enjoyable experience across devices.

Pagination: Swiper provides pagination for easy exploration of speaker cards.

3. Loading of Images:

Lazy Loading with Intersection Observer:

Efficient Image Loading: The Intersection Observer is utilized to defer the loading of images until they are about to enter the viewport.

Improved Performance: This approach enhances performance by reducing initial page load times, especially beneficial for pages with numerous images.

Data-src Attribute: Images use the data-src attribute initially, which is then replaced with the src attribute once the image is within the viewport, ensuring a smooth transition.

4. Intersection Observer Implementation:

Lazy Loading Mechanism:

Observing Images: The Intersection Observer is set up to observe each image element in the images NodeList.

Check for Intersection: When an image enters the viewport (`isIntersecting`), the callback function is triggered.

Attribute Swap: The `data-src` attribute is used to store the actual image path, and when the image becomes visible, this path is set as the `src` attribute, loading the image.