# **Project Completion Report: Climate Crisis Web App Redesign**

Course: CSC-317 | Project Group: 15 (Najah & Lakshya) Objective: Clean up existing codebase, eliminate errors, and implement a modern, high-performance aesthetic for the Climate Crisis website.

# 1. Code Cleanup and Structural Integrity

The original repository was cleaned up to improve accessibility, maintainability, and load speed. This involved migrating the codebase to modern standards:

### **Core Structural Changes**

- Semantic HTML5: The messy, non-semantic structure (overuse of <div>) was replaced with meaningful HTML5 tags: <header>, <nav>, <main>, <section>, and <footer>. This improves both SEO and screen reader accessibility.
- Separation of Concerns: All presentation logic was removed from the index.html file and moved into a dedicated, external stylesheet: assets/css/style.css. This makes the code modular and easier to debug or redesign in the future.

# 2. Interesting Design Decisions and Aesthetic Appeal

The visual redesign adopted a **minimalist**, **high-contrast aesthetic** to present the serious topic (Climate Crisis) professionally and clearly.

## A. Thematic Color and Typography

- **Refined Palette:** A restrained, thematic palette was chosen:
  - Primary (004d40): A deep Forest Green representing nature, used for the header and main card backgrounds.
  - Secondary (ff7043): A vibrant Orange used as a vital accent color for links, borders, and custom bullet points to draw the user's eye to key facts and calls-toaction.
- **Modern Font:** The site uses **Montserrat**, a clean, professional sans-serif font imported from Google Fonts, enhancing overall readability and modernizing the look.

## **B.** Responsive Layout and Whitespace

- Clean Look: The design utilizes generous whitespace (padding and margins) around all content sections, which is the cornerstone of a modern, "clean" aesthetic.
- Fully Responsive: The layout is built using a mobile-first approach. CSS Grid is used for the "Effects & Causes" section on desktop, which automatically collapses into a single-column stack on smaller screens (via a media query), ensuring excellent readability on mobile devices.

# 3. Cool CSS/HTML/JS Features Incorporated d

#### **CSS Grid for Flexible Layout**

The two-column sections (Effects/Causes, Footer links) and the action cards are managed using **CSS Grid** and **Flexbox**. This is a superior, non-laggy method for creating dynamic page sections that maintain structure, unlike older, less flexible layout techniques.

#### **Engaging Call-to-Action (CTA) Feedback**

The links in the "Go Beyond" section were styled as distinct green cards. To encourage user engagement, a subtle but effective CSS transition was applied:

• Transition: On hover, the card's background color smoothly shifts to the accent orange, and a transform: scale(1.05) is applied. This non-JavaScript feature provides immediate, snappy visual confirmation that the element is clickable.

#### **Subtle Hero Animation**

To add a touch of polish and vitality without slowing down the page, a simple, performant **CSS @keyframes pulse** animation was added to the hero image element, making it subtly expand and contract. This maintains a dynamic feel while keeping the site fast and responsive.