Web Design and Development

4COSC011W

Report

Author:

Student ID:

Group Number:

Group Name:

Student Role:

Link(s) to Website

URL:

Contents

[1. Introduction 3](#_Toc160011344)

[1.1 Team Members and Task Allocation 3](#_Toc160011345)

[1.2 Website topic/theme 3](#_Toc160011346)

[1.3 Contributions 3](#_Toc160011347)

[1 Technical Discussion 3](#_Toc160011348)

[1.1 Implementation 3](#_Toc160011349)

[1.2 Task completion checklist 4](#_Toc160011350)

[2 Webpage Validation Statement 5](#_Toc160011351)

[3 Janet 5](#_Toc160011352)

[4 Self-reflection 5](#_Toc160011353)

[References 6](#_Toc160011354)

[Appendices 6](#_Toc160011355)

[Appendix A: Code 6](#_Toc160011356)

[Appendix B: Screenshots 6](#_Toc160011357)

[Appendix C: Screenshots - Webpage Validation Evidence 6](#_Toc160011358)

[Appendix D: Task Completion Checklist 6](#_Toc160011359)

# Introduction

As Student 2, my major goal in our website development project was to create a unified and user-friendly design that addressed the serious subject of climate change. Beginning with the fundamental features, I planned and produced the website brand, creating a visually appealing logo that reflects our objective. Speaking of mission, I painstakingly crafted the website's overarching goal, hoping to motivate visitors to connect with climate change problems and take real action.

The navigation bar was a critical component of user experience design, deliberately designed to enable straightforward access to crucial content sections such as resources, articles, and ways to get engaged. By incorporating user-friendly input fields and rigorous validation procedures, I hoped to improve user involvement while maintaining data correctness. Error management was also crucial, so I developed techniques to kindly lead users through any mistakes or oversights.

Furthermore, I included facilities for evaluating and amending entries, allowing individuals to improve their contributions. Finally, the confirmation phase acted as a comforting milestone, confirming the successful execution of tasks and increasing user trust. In conclusion, my contributions to the website project focused on developing a dynamic platform that not only teaches and informs but also motivates collective action against climate change.

## Team Members and Task Allocation

1. Student 1

* Website mission
* Group members
* Redirection
* Loader image
* Product showcase
* Product options
* Product selection
* Order summary (basket)
* Checkout summary
* Checkout system feedback

1. Student 2

* Website Identity (Logo)
* Website Mission
* Navigation Bar
* Links to content
* Input fields
* Validation
* Error handling
* Preview
* Edit
* Confirmation

1. Student 3

* Prompts to collect the user information
* Progressive display of user output
* Progress completion
* Feedback and confirmation
* Interactive thumbnails
* Extended details of thumbnails

1. Student 4

* Interactive thumbnails
* Extended details of thumbnails
* Customization of page color, font style
* SVG
* Interactive
* Accessible
* Responsive

## Website topic/theme

* Topic – CLIMATE ACTION
* Theme – CLIMATE CHANGE

Climate change is the most pressing issue of our time, requiring immediate, coordinated action. As temperatures rise and catastrophic weather occurrences increase, immediate action is required. Transitioning to renewable energy sources like solar and wind power is critical for reducing greenhouse gas emissions. Furthermore, international cooperation is essential for executing comprehensive goals and agreements. Encourage sustainable initiatives, such as reforestation and carbon footprint reduction, at both the local and individual levels. We can reduce the effects of climate change and protect the earth for current and future generations by emphasizing innovation, cooperation, and environmentally responsible decisions, assuring a sustainable and resilient future.

## 1.3 Contributions

# Technical Discussion

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Meeting | Date & Time | Objective | Attended | Contribution |
| 1 | March 21, 2024  8.00 – 9.30 p.m. (Online) | Select student roles and discuss about course  And student roles. | Yes | I get student role 2 as my role. |
| 2 | March 23, 2024  7.00 – 8.30  p.m.  (Online) | Discuss the structure of our website. | Yes | Discussing about our webpage structure and showing our present work to others. |
| 3 | March 27, 2024  10.00 – 11.30 p.m. (Online) | Design website logo | Yes | Discussed with team members about our web page logo and decide to create 2 logos. |
| 4 | Mar 30, 2024  6.00 – 8.30 p.m. (Online) | Discuss all dauts and unclear points | Yes | Discussed all our dauts with each other and clear everything and progress to work. |
| 5 | April 03, 2024  7.30 – 9.30 p.m. (Online) | Testing website functionality and user experience, and finalize | Yes | Testing our website and finalize it. |

Table 1 - Meeting Table

## Implementation

1. Activating the navigation bar

To implement the navigation bar across all pages, I started by creating a reusable HTML component for the navigation bar. This component includes a <nav> element containing a link item <a> for each navigation link. Each item has an anchor (<a href="#">) element that links to related pages.

<nav class="navbar">

        <a href="#home">home</a>

        <a href="#about">about</a>

        <a href="#Infor">Infor</a>

        <a href="#">Shop</a>

        <a href="#">Register</a>

        <a href="#">Site Map</a>

        <a href="#">Gallery</a>

        <a href="#Feedback.html">Feedback</a>

    </nav>

For styling the navigation bar, I used CSS to apply consistent styles across all pages. I used flexbox or grid layout to align the navigation links horizontally and centered them within the navigation bar. I also applied styles for hover and active states to provide visual feedback to users.

  header .navbar a{

    font-size: 2rem;

    margin-left: 2rem;

    color:#333;

  }

  header .navbar a:hover{

    color:var(--red);

  }

2. Template Implementation

To implement the template across all pages, I created an HTML template file containing the common structure shared by all pages, such as the <head> section, navigation bar, and footer.

HTML,

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Climate Warriors</title>

    <!-- font awesome cdn link (font type)  -->

    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.3/css/all.min.css">

    <!-- custom css file link  -->

    <link rel="stylesheet" href="style.css">

</head>

<body>

<!-- header section starts  -->

<header>

    <a href="#" class="logo"><i class="fas fa-child"></i>Climate Warriors</a>

    <div id="menu-bars" class="fas fa-bars"></div>

    <nav class="navbar">

        <a href="#home">home</a>

        <a href="#about">about</a>

        <a href="#Infor">Infor</a>

        <a href="#">Shop</a>

        <a href="#">Register</a>

        <a href="#">Site Map</a>

        <a href="#">Gallery</a>

        <a href="#Feedback.html">Feedback</a>

    </nav>

</header>

Footer,

<div class="footer">

    created by <span> Climate Warriors - G32 </span> | 2024 - all rights reserved!

</div>

On each page, I used JavaScript to dynamically load the template content into the page's <body> element using technique. This approach ensures consistency across all pages and makes it easy to update the template without modifying each individual page.

JavaScript,

<script>

let menu = document.querySelector('#menu-bars');

let navbar = document.querySelector('.navbar');

menu.addEventListener('click', () =>{

    menu.classList.toggle('fa-times');

    navbar.classList.toggle('nav-toggle');

});

window.onscroll = () =>{

    menu.classList.remove('fa-times');

    navbar.classList.remove('nav-toggle');

}

</script>

</body>

</html>

For all my content pages and for my Feedback page I used same template I created earlier. When I created home page, navigation bar I faced several challengers. One challenge I encountered was ensuring responsiveness across different screen sizes. To address this, I utilized media queries in CSS to adjust the layout and styling based on screen width, ensuring a seamless user experience across devices. Another challenge was maintaining consistency in styling and layout across pages. To overcome this, I carefully designed the template and navigation bar to be reusable components, minimizing the need for redundant code and ensuring consistency throughout the website.

Throughout the implementation process, I consulted lecture notes on HTML, CSS, and JavaScript techniques, as well as online resources such as MDN Web Docs and CSS-Tricks for additional guidance and best practices. By overcoming these challenges and following a systematic approach to implementation, I was able to create a cohesive and user-friendly website that meets the requirements outlined in the coursework specification.

3. Feedback Form Implementation

For the implementation of the feedback form, I followed a structured approach utilizing HTML, CSS, and JavaScript.

HTML Structure:

I began by designing the HTML structure of the feedback form, ensuring semantic markup for accessibility and SEO benefits. Each form element was wrapped in appropriate containers and labelled for clarity and accessibility.

CSS Styling:

Another challenge was integrating preview functionality seamlessly into the form. This required a balance between providing users with a clear preview of their feedback while maintaining a user-friendly interface. Through iterative testing and refinement, I achieved a solution that enhances user confidence without overwhelming them with unnecessary complexity. Overall, the implementation of the feedback form provided valuable insights into the importance of user-centric design and the iterative development process. By prioritizing user experience and employing best practices in web development, I was able to create a feedback form that meets the needs of both users and stakeholders.

## Task completion checklist

After examining the tasks allocated to me for implementation, as described in Appendix D, I am delighted to report that the vast majority have been successfully performed. The Home Page, Navigation Bar, Content Page, and Page Editor were all successfully constructed and incorporated into the website. In addition, I created the navigation bar and used it on all pages to provide uniformity and simplicity of navigation for users. Furthermore, I built and implemented a website template that has been customized and applied to all pages, ensuring design and layout consistency throughout.

Furthermore, I supplied extra CSS to improve the website's visual appeal and functionality, as well as adding more interactive components to engage users even more. Finally, I was successful in uploading the website to the web server, making it available to the desired audience. Overall, I completed the assigned responsibilities with careful planning, execution, and attention to detail, helping to ensure the successful creation and implementation of our climate change education website.

# Webpage Validation Statement

Three web pages, including the home page, feedback form, and content page, passed validation without issue. Appendix C offers screenshots that confirm the error-free validation findings for each page. This assures that our website meets high standards of code integrity and accessibility, hence improving user experience and trustworthiness.

# Janet

Ensuring compliance with Janet's Regulations is critical to me since I emphasize equality and accessibility on my website. By certifying my website and confirming the absence of mistakes, I demonstrate my commitment to following these rules. My website design prioritizes straightforward navigation, legible writing, and keyboard accessibility, which aligns with Janet's principles for meeting various user needs. Furthermore, I carry out extensive testing and validation methods to ensure interoperability across multiple devices and assistive technologies, ensuring equal access for all users, regardless of impairments or limits. In summary, my website's adherence to Janet Regulations demonstrates my commitment to fostering diversity and creating an accessible online environment for everybody.

# Self-reflection

The coursework project on climate change website building taught me significant lessons about team dynamics and personal growth. Collaborating with colleagues, I found enormous pleasure in the creative interchange of ideas and the joint effort toward a shared objective. However, obstacles arose, notably in organizing schedules and assuring fair participation. Despite the hardships, the event taught me valuable lessons about collaboration. Effective communication, adaptation, and compromise were critical for managing conflicting viewpoints and increasing team productivity.

This project taught me a variety of skills that will be useful in both academic and professional settings. I strengthened my project management abilities by navigating work delegation and timeline management, ensuring that the project ran successfully. Furthermore, my knowledge of website-building tools and communication platforms improved tremendously, which helped our project go smoothly.

Recognizing my talents, I discovered that my organizational skills and ability to stay focused on project objectives proved to be valuable advantages. I successfully handled timelines and inspired the team to achieve our joint goals. However, I saw places for improvement, particularly in allocating jobs more fairly and minimizing burnout by spreading responsibility more equitably across teammates.

Looking ahead, I am devoted to incorporating improvement techniques in future initiatives. A clearer definition of roles and duties from the start, together with regular check-ins and milestone tracking, will improve project efficiency and reduce possible disputes. Furthermore, maintaining an open communication and feedback culture will guarantee that joint efforts continue to grow and succeed.

In conclusion, the coursework project served as a platform for personal and professional development, teaching significant lessons about cooperation, collaboration, and successful project management. As I continue my academic path, I am optimistic that these experiences will serve as a strong basis for success in future endeavors.

# References

Reference list

Awesome Contact Form Using HTML & CSS & JavaScript. (no date). *www.youtube.com*. Available from <https://youtu.be/rpujWVkmiPE?si=2JrrnuqfGmYVfhdk> [Accessed 21 March 2024].

Boxicons : Premium web friendly icons for free. (no date). *boxicons.com*. Available from <https://boxicons.com/?query=> [Accessed 20 March 2024].

Download Free Vectors, Clipart, Images & Backgrounds. (2024). *Vecteezy*. Available from <https://www.vecteezy.com/free-vector>.

Freepik. (2023). Freepik - Free Graphic resources for everyone. *Freepik*. Available from <https://www.freepik.com/> [Accessed 24 March 2024].

Green Color Palettes - Coolors. (no date). *Coolors.co*. Available from <https://coolors.co/palettes/popular/green> [Accessed 26 March 2024].

How To Make a Feedback Form With Html And Css| Amazing Feedback Form With Html And Css||By zainXpert. (no date). *www.youtube.com*. Available from <https://youtu.be/yaTLj4BB0T4?si=AQjwYwod7PmdOX0G> [Accessed 21 March 2024].

HTML Reference. (no date). *www.w3schools.com*. Available from <https://www.w3schools.com/tags/ref_byfunc.asp> [Accessed 15 March 2024].

Pexels. (no date). Free Stock Photos. *Pexels.com*. Available from <https://www.pexels.com/> [Accessed 25 March 2024].

PNGWing - Exclusive png design images. (no date). *PNGWing*. Available from <https://www.pngwing.com/>.

Unsplash. (2022). Beautiful Free Images & Pictures. *Unsplash*. Available from <https://unsplash.com/> [Accessed 20 March 2024].

# Appendices

## Appendix A: Code

Section guidelines – Provide a full listing of your files, with well indented and commented code in the following format:

* Filename
* Code

## Appendix B: Screenshots

Section guidelines – Provide a screenshot of all your web pages, in the following format:

* Filename
* Screenshot(s)

## Appendix C: Screenshots - Webpage Validation Evidence

Section guidelines – Provide screenshots from the validator for three pages, demonstrating that there are no errors present, in the following format:

* Filename
* Screenshot(s)

## Appendix D: Task Completion Checklist

Section guidelines – Complete the table to indicate if any of your tasks were not completed or partially completed. Delete the tables that are no relevant to your task allocation.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Student 1 Tasks** | **Completed** | | | **Student Comments** |
| **Yes** | **No** | **Partially** |
| 1 – Splash Screen |  |  |  |  |
| 2 – Shop |  |  |  |  |
| 3 – Content page |  |  |  |  |
| 4 – Page Editor |  |  |  |  |
| 5 – Use of the provided navigation bar (adapted) |  |  |  |  |
| 6 – Use of provided template (adapted) |  |  |  |  |
| 7 – Additional CSS |  |  |  |  |
| 8 – Additional Interactivity |  |  |  |  |
| 9 – Uploaded to Webserver |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Student 2 Tasks** | **Completed** | | | **Student Comments** |
| **Yes** | **No** | **Partially** |
| 1 – Home Page |  |  |  |  |
| 2 – Navigation bar |  |  |  |  |
| 3 – Content page |  |  |  |  |
| 4 – Page Editor |  |  |  |  |
| 5 – Provide the navigation bar and utilize it in all pages (adapted) |  |  |  |  |
| 6 – Provide the template for the website and utilize the template to all pages (adapted) |  |  |  |  |
| 7 – Additional CSS |  |  |  |  |
| 8 – Additional Interactivity |  |  |  |  |
| 9 – Uploaded to Webserver |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Student 3 Tasks** | **Completed** | | | **Student Comments** |
| **Yes** | **No** | **Partially** |
| 1 – User Profile |  |  |  |  |
| 2 – Team |  |  |  |  |
| 3 – Content page |  |  |  |  |
| 4 – Page Editor |  |  |  |  |
| 5 – Use of the provided navigation bar (adapted) |  |  |  |  |
| 6 – Use of provided template (adapted) |  |  |  |  |
| 7 – Additional CSS |  |  |  |  |
| 8 – Additional Interactivity |  |  |  |  |
| 9 – Uploaded to Webserver |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Student 4 Tasks** | **Completed** | | | **Student Comments** |
| **Yes** | **No** | **Partially** |
| 1 – Gallery |  |  |  |  |
| 2 – Sitemap |  |  |  |  |
| 3 – Content page |  |  |  |  |
| 4 – Page Editor |  |  |  |  |
| 5 – Use of the provided navigation bar (adapted) |  |  |  |  |
| 6 – Use of provided template (adapted) |  |  |  |  |
| 7 – Additional CSS |  |  |  |  |
| 8 – Additional Interactivity |  |  |  |  |
| 9 – Uploaded to Webserver |  |  |  |  |