Web Design and Development

4COSC011W

Report

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Student ID: 20222012 / w2052856

Group Number:

Group Name: Oceanic Life

Student Role: Student 04

Link(s) to Website

URL:

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# Introduction

This report offers a comprehensive description detailing the creation of the website for the coursework of Web Design & Development module. Our team’s goal was to create a visually pleasing, fully functional website which is rich in content that clearly conveys the meaning and message behind the chosen topic. To develop and design the website the programming languages used were HTML, CSS, and JavaScript. CSS was optimized to give a modern look for the site and with the use of JavaScript, interactivity of the website was enhanced. The website consists of all the required pages and was developed abiding by the rules stated in the CSW description. All team members worked together sharing each other’s knowledge, ideas, and skill to ensure that all the pages have perfect functionality and a unified theme, look, and feel.

With thorough research regarding the chosen goal performed by all team members our team aimed to convey the importance of the said goal through four related topics separately integrated as four content pages. A color palette in accordance with the topic, and related images were appropriately used. A name and a logo related to the theme were applied to give the site a more personable feel.

In the development process of the website our team and I got the opportunity to expand our knowledge of web design, user experience enhancement, team work, and project management. We were able to gain valuable experience and insight into the process of creating such a project and were faced with challenges that helped us identify our strengths and weaknesses. The following sections present information on the challenges and obstacles faced during the process as well as the methodologies we applied in order to overcome them. Additionally, we will reflect on the project discussing important lessons learned, and areas to improve.

## 1.1 Team Members and Task Allocation

**Student 1**

*Name*: Chethana Laksika

*IIT No:*  20221880

*UoW No:* w2052857

Assigned Tasks

Member was assigned to create following pages including CSS styling and JavaScript for their relevant pages.

* splash.html
* shop.html
* Content Page
  + Research and write content on the topic “Marine Life-Awareness”.
* Page Editor

**Student 2**

*Name*: Sithum Duleka

*IIT No:*  20230230

*UoW No:* w2053782

Assigned Tasks

Member was assigned to create following pages including CSS styling and JavaScript for their relevant pages.

* home.html
* feedback.html
* Content Page
  + Research and write content on the topic “Tackling Overfishing”.
* Page Editor
* Header template with navigation bar
* styles.css – general style sheet used for website

**Student 3**

*Name*: Pasan De Silva

*IIT No:*  20230466

*UoW No:* w2055318

Assigned Tasks

Member was assigned to create following pages including CSS styling and JavaScript for their relevant pages.

* team.html
* profile.html
* Content Page
  + Research and write content on the topic “Marine Pollution”.
* Page Editor

**Student 4**

*Name*: Kenula Nimhan

*IIT No:*  20222012

*UoW No:* w2052856

Assigned Tasks

Member was assigned to create following pages including CSS styling and JavaScript for their relevant pages.

* gallery.html
* sitemap.html
* Content Page
  + Research and write content on the topic “Marine Ecosystems”.
  + Content Page template - HTML, CSS
* Page Editor

## 1.2 Website topic/theme

Theme of website: “Life Below Water”

Website title: “Oceanic Life”

## 1.3 Contributions

| **Group Coursework Meetings** | | |
| --- | --- | --- |
| **1** | **Date & Time** | **25th February**  **10.30 a.m. (In person)** |
| **Objective:** | **Assigning Student Role** |
| **Attended:** | **Yes** |
| **Your Contribution:** | **Pointed out my strengths and weaknesses and discussed on which role would be most suitable for myself.** |
| **2** | **Date & Time:** | **2nd March**  **7.30 p.m. (Online)** |
| **Objective:** | **Choose UN goal /theme for website** |
| **Attended:** | **Yes** |
| **Your Contribution:** | **Helped identify which theme would be easier to collect information on.** |
| **3** | **Date & Time:** | **10th March**  **6.00 p.m. (Online)** |
| **Objective:** | **Discuss Progress** |
| **Attended:** | **Yes** |
| **Your Contribution:** | **Presented currently developed pages and shared new ideas for pages to be developed.** |
| **4** | **Date & Time:** | **17th March**  **10.00 a.m. (In person)** |
| **Objective:** | **Discuss Progress** |
| **Attended:** | **Yes** |
| **Your Contribution:** | **Helped with improvement of teammates’ code and worked on styling pages to look unified.** |
| **5** | **Date & Time:** | **21st March**  **9.00 a.m. (In person)** |
|  | **Objective:** | **Finalizing Project** |
|  | **Attended:** | **Yes** |
|  | **Your Contribution:** | **Linked all pages and tested the useability and behavior of website** |

# Technical Discussion

## Implementation

### Gallery Implementation

The requirement for gallery was to have a view of clickable thumbnails containing images relating to the website theme. Upon clicking a thumbnail, an extended view containing a description should appear on the relevant topic.

The main method used for implementing the gallery was CSS grid. I chose this method for several reasons such as,

* The ability to display a set number of rows and columns.
* Ease of defining measurements (width, height) for each item.
* Ease of adding or removing gallery items if necessary.
* Works well responsive to different viewports.

The grid items were placed within a container div element of which the style attribute was set to “display: grid”. The container tending to overflow horizontally was a challenge I had to face while developing this grid view. Due to the measurements of border and width of each gallery item the container took more than 100% of the viewport width. Even though at first I tried to solve this issue by setting style attribute of page body to “overflow-x: hidden” it wasn’t a reliable method. I was able to overcome this issue by setting the width of each grid element as a percentage of the viewport width which was marginally less than “25vw” as each row had four items.

A computer code with text

Description automatically generated with medium confidence

The implementation of extended view was mainly done using JavaScript. Each extended view was defined within a div and the initial style attribute was set to “display: none”. The gallery items were given the class “gallery\_item” and extended views were given “extended\_view”. With the use of JavaScript, the collection of gallery items and extended views were assigned as arrays.



Since the amount of gallery items and extended views are the same I was able to display the corresponding the extended view when a gallery item is clicked using the index of it in the array.

A screen shot of a computer screen

Description automatically generated

The personalization bar, which is initially not displayed as well, is displayed upon clicking any gallery item.

The layering issues were rectified by changing the z-index value of certain elements.

### Sitemap Implementation

The requirements for this page were to present a sitemap purely constructed using svg elements.

Several different structures for the sitemap were initially drawn using pen and paper to determine which suits the best. After deciding on an appropriate structure, the design was implemented. In HTML, the nodes were constructed first followed by the paths. Certain validation errors were occurred at first since I used CSS to define attribute values for the nodes (<rect> tags). The errors were rectified after defining attribute values for each and every node separately. The node names were defined within <text> tags and the nodes and text were grouped together using <g> tags in order to implement hover methods.

A black background with numbers and letters

Description automatically generated

It was a challenge to make the site responsive but I was able to overcome it by setting the “viewBox” attribute and using percentage values for height and width attributes of nodes.



At first I tried To position the main node in the middle of the page using margin and padding style attributes or “display: flex” and “justify-content: center” values. Since none of these methods were able to position the svg element in the middle of page I was able to solve the issue by using calculations when setting x coordinates.

A computer code with text

Description automatically generated

Defining the coordinates of path was hard to grasp at first, but with more usage I was able to understand how to precisely define a path. I learned that it is best to comment and organize especially when your defining paths as it amplifies readability and understanding of the code.

A black background with numbers

Description automatically generated

Alternative text were defined within <tittle> tags for improved accessibility.

### Content Page Implementation

The requirements for the content page were to construct a page containing relevant information on a topic related to the theme of website. Links within the page needed to be included for ease of navigation.

I implemented the content page using extensive details gathered from research on the given topic. A general layout for the content page was created by me in order to give the website a unified look. Page was divided into different sections for different sub-topics with each section containing an image and text. Sizing of the images were a challenge since different images appear differently compromising the readability of the content. This obstacle was managed by placing the image within a container and setting a specific width and height to it.

Links to sub-topics were placed below the heading for ease of access. A “back-to-top” link was placed at the bottom of the content to redirect back to the beginning of the content. The positioning of this link was done using the style attributes “position”, and “right” in order to avoid alignment issues.

### Page Editor Implementation

Since editor page is a standalone page different fonts and a color theme varying from the general look of website was used.

CSS and JavaScript were used to create an animation effect displaying details on page when hovering over the page name. The implementation of the animation effect posed minor challenges in the initial stages. The positioning of the animated elements needed adjustments in order to stop flickering and shaking.

### Adapted Navigation Bar Implementation.

The header including the navigation bar created by student 2 was implemented in gallery page and content page. Initially, the positioning of the header was slightly different from page to page. This was due to conflicts with the different stylesheets. For example, the “box-sizing: border-box” property defined in the adapted stylesheet affected some of the page elements. I was able to manage this by commenting out unnecessary codes and using internal styles which overrides external styles.

## Task completion checklist

**Gallery**

The gallery was constructed including,

* Interactive thumbnails
* Extended details of thumbnails
* Option to customize page color, font style, and font size.

All images contain alternative text for accessibility.

**Sitemap**

The sitemap was constructed using svg elements. The nodes were made interactive by changing color on hover, the nodes are links to the corresponding page represented.

Accessibility features were added, and the page is responsive.

**Content Page**

* Includes sufficient information.
* Internal links are provided for easy navigation.

**Page Editor**

* accurate editor information
* role in the group's work
* list of completed tasks.
* Links back to pages created.

**Adapted Navigation**

Adapted navigation is used in all pages as the header.

Displays same style and order of navigation.

**Adapted Template**

Template was adapted seamlessly into web pages’ design.

**Additional CSS and JavaScript**

External CSS and JavaScript were used improve interaction and user experience.

# Webpage Validation Statement

Web pages Validated without errors:

* gallery.html
* sitemap.html
* marineEcosystems.html (Content Page)

# Janet

This website was developed in compliance with WCAG (Web Content Accessibility Guidelines) standards ensuring that it is accessible to differently abled users. All pages created have been implemented with the methodologies such as alternative text, font and color customisations, and keyboard navigation that would guarantee a user-friendly experience for everyone.

This website does not consist of any copyrighted nor stolen material. Any kind of offensive or obscene material, violence inducing, or harassment related material are not included on the website. No pages of the site contribute to any commercial, promotional or spam activity.

# Self-reflection

***What I enjoyed and did not enjoy about teamwork***

Working in collaboration, problem solving together while sharing each other’s ideas and knowledge was something I enjoyed very much. It was motivating to learn from each other and work as a team towards achieving one goal. However, there were challenging moments where there is lack of communication or lack of responsibility within team members.

***What I learned about teamwork***

One of the most important things I learned is to be able to accept different ideas and opinions. Being open to contrasting views broadens the opportunities for us to learn and improve. Importance of effective communication, effective contribution are some of the significant things I got to learn as well.

***skills gained/learnt from undertaking the project.***

Through this project I was able to improve and sharpen my knowledge on programming with languages HTML, CSS, and JavaScript. I was also able to gain some experience working with github which I’m sure will benefit me in the future,

***strengths that emerged whilst undertaking the project.***

I was able to identify that I am passionate about providing a wonderful user experience through the website. I was able to implement advanced interactivity using JavaScript and considerably improve the quality of the website.

Throughout the project my ability to focus under pressure and remain organized emerges as a strength as well. I believe I demonstrated leadership qualities by decision making, and motivating my teammates.

***weaknesses that emerged whilst undertaking the project.***

I identified that I have weaknesses related to time management, and trying to take on too many tasks at once which results in moments of overwhelm and stress.

***how I would do things better if you were to undertake the project again***

If I were to undertake this project again, I would try to set precise, achievable goals. I would try to regularly monitor the team’s progress, address teammates’ challenges and take quick action.

# References

Harischandra, J. (2024). Scalable Vector Graphics – SVG[Lecture Notes].Informatics Institute of Technology, Colombo, Sri Lanka.

[How to reference your work](https://www.westminster.ac.uk/current-students/studies/study-skills-and-training/research-skills/referencing-your-work)

# Appendices

## Appendix A: Code

* gallery.html

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Oceanic Life - Gallery</title>

    <!-- STYLESHEETS -->

    <link rel="stylesheet" href="Styles/styles.css">

    <link rel="stylesheet" href="Styles/gallery.css">

    <!-- FONTS -->

    <link rel="preconnect" href="https://fonts.googleapis.com">

    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>

    <link href="https://fonts.googleapis.com/css2?family=EB+Garamond&family=Montserrat&family=Roboto&display=swap" rel="stylesheet">

</head>

<body>

    <!--HEADER-->

    <header>

        <a href="#" class="logo">

            <img src="Logos/newlogo.jpg" alt="Oceanic Life Logo">

            <span>Oceanic Life</span>

        </a>

        <div class="navbar">

            <ul>

                <li><a href="home.html">Home</a></li>

                <li><a href="gallery.html">Gallery</a></li>

                <li><a href="shop.html">Shop</a></li>

                <li><a href="sitemap.html">SiteMap</a></li>

                <li><a href="team.html">Team</a></li>

                <li><a href="feedback.html">FeedBack</a></li>

                <li><a href="profile.html">Profile</a></li>

            </ul>

        </div>

    </header>

    <!-- PERSONALISATION BAR -->

    <div class="personalisationBar" id="personalisationBar">

        <!-- FONT SELECTION -->

        <div class="font\_selection">

            <span>Font &RightArrow;</span>

            <span class="roboto-regular font\_option" id="roboto-regular"> Aa &nbsp;</span>

            <span class="montserrat font\_option" id="montserrat"> Aa &nbsp;</span>

            <span class="poppins font\_option" id="poppins"> Aa &nbsp;</span>

        </div>

        <svg width="24" height="24" class="seperator">

            <line x1="12" y1="0" x2="12" y2="24" stroke="black"></line>

        </svg>

        <!-- FONT SIZE SELECTION -->

        <div class="font\_size\_selection">

            <span>Font Size &RightArrow;</span>

            <span id="size\_16"> 16 </span>

            <span id="size\_18"> 18 </span>

            <span id="size\_20"> 20 </span>

        </div>

        <svg width="24" height="24" class="seperator">

            <line x1="12" y1="0" x2="12" y2="24" stroke="black"></line>

        </svg>

        <!-- COLOR SCHEME SELECTION -->

        <div class="color\_selection">

            <span>Color &RightArrow;</span>

            <svg width="20" height="20" id="white\_bg\_option">

                <circle cx="10" cy="10" r="9" stroke="black" fill="white" stroke-width="1"></circle>

            </svg>

            <svg width="20" height="20" id="beige\_bg\_option">

                <circle cx="10" cy="10" r="9" stroke="black" fill="#F4ECD8" stroke-width="1"></circle>

            </svg>

            <svg width="20" height="20" id="black\_bg\_option">

                <circle cx="10" cy="10" r="9" stroke="black" fill="black" stroke-width="1"></circle>

            </svg>

        </div>

    </div>

    <!--GALLERY-->

    <div id="container">

        <div class="gallery\_item" id="item\_1">

            <div class="gallery\_item\_name">

                <span>Marine <br>Ecosystems</span>

                <span class="read\_more\_text"><u>Read More</u> &rArr;</span>

            </div>

        </div>

        <div class="gallery\_item" id="item\_2">

            <div class="gallery\_item\_name">

                <span>Ocean <br>Acidification</span>

                <span class="read\_more\_text"><u>Read More</u> &rArr;</span>

            </div>

        </div>

        <div class="gallery\_item" id="item\_3">

            <div class="gallery\_item\_name">

                <span>Sustainable <br>Fishing</span>

                <span class="read\_more\_text"><u>Read More</u> &rArr;</span>

            </div>

        </div>

        <div class="gallery\_item" id="item\_4">

            <div class="gallery\_item\_name">

                <span>Marine <br>Pollution</span>

                <span class="read\_more\_text"><u>Read More</u> &rArr;</span>

            </div>

        </div>

        <div class="gallery\_item" id="item\_5">

            <div class="gallery\_item\_name">

                <span>Public <br>Awareness</span>

                <span class="read\_more\_text"><u>Read More</u> &rArr;</span>

            </div>

        </div>

        <div class="gallery\_item" id="item\_6">

            <div class="gallery\_item\_name">

                <span>Sustainable <br>Tourism</span>

                <span class="read\_more\_text"><u>Read More</u> &rArr;</span>

            </div>

        </div>

        <div class="gallery\_item" id="item\_7">

            <div class="gallery\_item\_name">

                <span>Marine <br>Debris <br>Cleanup</span>

                <span class="read\_more\_text"><u>Read More</u> &rArr;</span>

            </div>

        </div>

        <div class="gallery\_item" id="item\_8">

            <div class="gallery\_item\_name">

                <span>Sea <br>Law</span>

                <br>

                <span class="read\_more\_text"><u>Read More</u> &rArr;</span>

            </div>

        </div>

        <div class="gallery\_item" id="item\_9">

            <div class="gallery\_item\_name">

                <span>Waste <br>Management</span>

                <span class="read\_more\_text"><u>Read More</u> &rArr;</span>

            </div>

        </div>

        <div class="gallery\_item" id="item\_10">

            <div class="gallery\_item\_name">

                <span>Coastal <br>Developments</span>

                <span class="read\_more\_text"><u>Read More</u> &rArr;</span>

            </div>

        </div>

        <div class="gallery\_item" id="item\_11">

            <div class="gallery\_item\_name">

                <span>Small <br>Scale <br>Fishers</span>

                <span class="read\_more\_text"><u>Read More</u> &rArr;</span>

            </div>

        </div>

        <div class="gallery\_item" id="item\_12">

            <div class="gallery\_item\_name">

                <span>Ocean <br>Governance</span>

                <span class="read\_more\_text"><u>Read More</u> &rArr;</span>

            </div>

        </div>

    </div>

    <!--EXTENDED VIEWS-->

    <div id="extended\_view\_container">

        <span id="backIcon">&times;</span>

        <div class="extended\_view" id="item\_1\_info">

            <div class="extended\_view\_heading">

                <h2>Marine Ecosystems</h2>

                <hr>

            </div>

            <img src="images/forGallery/marineEcosysCrop.jpg" alt="Image of Corals" class="extended\_view\_image\_preview">

            <div class="extended\_view\_text">

                <p>

                    Marine ecosystems refer to the communities of organisms and their interactions within saltwater environments, including oceans, seas, and coastal areas. These ecosystems are characterized by high biodiversity and complex food webs, and they play a crucial role in regulating global climate, nutrient cycling, and providing resources for human populations

                </p>

                <p>

                    Marine ecosystems can be broadly categorized into various zones based on factors like depth, light availability, and distance from the shore. These zones include the intertidal zone, where the ocean meets the land and experiences periodic exposure to air and waves; the neritic zone, which extends from the low tide line to the edge of the continental shelf and is characterized by relatively shallow and nutrient-rich waters; and the pelagic zone, which encompasses the open ocean and is divided into the epipelagic, mesopelagic, bathypelagic, and abyssopelagic zones based on depth.

                </p>

                <p>

                    Key organisms found in marine ecosystems include phytoplankton, which are microscopic algae that form the base of the marine food chain through photosynthesis; zooplankton, which are small animals that feed on phytoplankton and serve as food for larger marine organisms; marine mammals such as whales, dolphins, and seals; fish species ranging from tiny anchovies to large sharks; and diverse invertebrates like corals, mollusks, and crustaceans.

                </p>

                <p>

                    Human activities such as overfishing, pollution, habitat destruction, and climate change pose significant threats to marine ecosystems, leading to declines in biodiversity, loss of habitats like coral reefs and mangroves, and disruptions to ecosystem functioning. Conservation efforts such as marine protected areas, sustainable fishing practices, and reducing pollution are essential for preserving the health and resilience of marine ecosystems for future generations.

                </p>

            </div>

        </div>

        <div class="extended\_view" id="item\_2\_info">

            <div class="extended\_view\_heading">

                <h2>Ocean Acidification</h2>

                <hr>

            </div>

            <img src="images/forGallery/oceanAcidification.jpg" alt="Image of seahorse" class="extended\_view\_image\_preview">

            <div class="extended\_view\_text">

                <p>

                    Ocean acidification is a process driven by the absorption of carbon dioxide (CO2) from the atmosphere into the ocean, leading to a decrease in the pH of seawater. When CO2 dissolves in seawater, it reacts with water molecules to form carbonic acid, which increases the concentration of hydrogen ions, consequently lowering the pH and making the water more acidic.

                </p>

                <p>

                    The ocean has absorbed about 30% of the CO2 emitted by human activities since the Industrial Revolution, which has led to a measurable decrease in the pH of surface waters by approximately 0.1 units. While this may seem small, it represents a significant increase in acidity on a logarithmic scale.

                </p>

                <p>

                    Ocean acidification has widespread impacts on marine ecosystems and organisms. One of the most notable effects is on calcifying organisms such as corals, shellfish, and certain types of plankton, whose ability to build and maintain their calcium carbonate shells or skeletons is impaired in more acidic conditions. This can lead to reduced growth rates, weaker shells, and increased susceptibility to predation and disease, ultimately threatening the health of marine ecosystems and the livelihoods of communities dependent on them.

                </p>

                <p>

                    Furthermore, ocean acidification can disrupt marine food webs by affecting the survival, growth, and reproduction of various species, potentially leading to cascading effects throughout entire ecosystems. Additionally, some fish species may experience behavioral changes in response to acidification, impacting their ability to find food, avoid predators, and reproduce.

                </p>

                <p>

                    Addressing ocean acidification requires reducing CO2 emissions at the source to mitigate its underlying cause. Additionally, local management strategies, such as protecting and restoring habitats like coral reefs and seagrass beds, can help enhance the resilience of marine ecosystems to acidification and other stressors.

                </p>

            </div>

        </div>

        <div class="extended\_view" id="item\_3\_info">

            <div class="extended\_view\_heading">

                <h2>Sustainable Fishing</h2>

                <hr>

            </div>

            <img src="images/forGallery/sustainableFishing.jpg" alt="Image representing large scale fishing" class="extended\_view\_image\_preview">

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                    Sustainable fishing refers to the practice of harvesting fish and other aquatic organisms in a manner that ensures the long-term health and productivity of the targeted species, as well as the marine ecosystems in which they live. This approach aims to maintain the balance between fishing activities and the natural regeneration of fish populations, thereby preserving biodiversity, supporting livelihoods, and safeguarding food security for present and future generations.

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                <p>Key principles of sustainable fishing include:</p>

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                        Setting catch limits: Establishing scientifically informed catch limits based on the population dynamics of fish stocks to prevent overfishing and allow for their sustainable exploitation.

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                        Avoiding destructive fishing methods: Using fishing gear and techniques that minimize habitat damage, bycatch of non-target species, and ecosystem disruption, such as bottom trawling and dynamite fishing.

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                        Protecting critical habitats: Implementing measures to conserve and restore important habitats like coral reefs, seagrass beds, and mangrove forests, which serve as essential nurseries and breeding grounds for many fish species.

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                        Monitoring and enforcement: Implementing effective monitoring, control, and surveillance systems to ensure compliance with fishing regulations and deter illegal, unreported, and unregulated (IUU) fishing activities.

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                        Promoting ecosystem-based management: Adopting holistic approaches to fisheries management that consider the interactions between fish populations, their predators, prey, and the broader marine environment.

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                        Supporting alternative livelihoods: Diversifying economic opportunities for fishing communities through initiatives such as ecotourism, aquaculture, and sustainable seafood certification programs.

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                    By adhering to these principles, sustainable fishing practices aim to maintain the resilience of marine ecosystems, conserve biodiversity, and ensure the long-term viability of fisheries as a renewable natural resource. Collaboration among governments, fishing industries, scientists, and local communities is essential for successfully implementing and promoting sustainable fishing practices worldwide.

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            <div class="extended\_view\_heading">

                <h2>Marine Pollution</h2>

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            <img src="images/forGallery/marinePolu.jpg" alt="Turtle caught up in plastic waste" class="extended\_view\_image\_preview">

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                    Marine pollution refers to the introduction of harmful substances or contaminants into the marine environment, including oceans, seas, estuaries, and coastal areas. These pollutants can originate from various sources, including industrial activities, agricultural runoff, urban runoff, shipping, oil spills, and improper waste disposal.

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                <p>Types of marine pollution include:</p>

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                        Chemical pollution: Chemical pollutants such as heavy metals, pesticides, industrial chemicals, and petroleum hydrocarbons can accumulate in marine ecosystems, harming marine organisms and disrupting food webs. These contaminants may lead to toxicity, reproductive issues, and long-term ecological damage.

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                        Plastic pollution: Plastic debris, including microplastics (particles smaller than 5 millimeters), poses a significant threat to marine life. Animals can ingest plastic or become entangled in it, leading to injuries, suffocation, and death. Microplastics can also adsorb and transport other pollutants, exacerbating their impacts.

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                        Oil pollution: Oil spills from tanker accidents, offshore drilling operations, and illegal discharges can have catastrophic effects on marine environments. Oil coats the surface of the water, suffocating marine life, contaminating habitats, and causing long-term damage to coastal ecosystems and economies.

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                        Marine debris: Besides plastics, marine debris encompasses various materials like glass, rubber, metal, and discarded fishing gear. Debris can injure or kill marine animals through ingestion or entanglement, degrade habitats, and transport invasive species.

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                    Addressing marine pollution requires international cooperation, legislation, and enforcement to reduce pollutant inputs, improve waste management practices, promote sustainable development, and restore degraded marine ecosystems. Public awareness, community engagement, and technological innovations are also critical for mitigating the impacts of marine pollution and protecting the health of our oceans.

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                <h2>Public Awareness</h2>

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                    Raising public awareness about preserving marine life is essential for promoting conservation efforts and encouraging sustainable practices to protect ocean ecosystems. Here are some strategies for raising awareness:

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                        Education and outreach programs: Developing educational materials, workshops, and interactive exhibits that highlight the importance of marine biodiversity, the threats facing marine ecosystems, and the actions individuals can take to help preserve marine life. These programs can target schools, community centers, and public events to reach diverse audiences.

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                        Public campaigns: Launching public awareness campaigns using various media platforms, including social media, television, radio, and print media, to communicate key messages about the importance of marine conservation. These campaigns can focus on specific issues such as plastic pollution, overfishing, habitat destruction, and climate change, and provide actionable steps for individuals to get involved.

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                        Citizen science initiatives: Engaging the public in scientific research and monitoring projects through citizen science programs focused on marine biodiversity, species distribution, and habitat health. Encouraging individuals to collect data, participate in surveys, and report sightings of marine species can contribute valuable information for conservation efforts while fostering a sense of stewardship.

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                    By implementing these strategies and engaging the public in efforts to preserve marine life, we can foster a sense of responsibility and collective action towards protecting our oceans for current and future generations.

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                <h2>Sustainable Tourism</h2>

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            <img src="images/forGallery/tourism.jpeg" alt="Tourist attraction location" class="extended\_view\_image\_preview">

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                    Sustainable tourism related to marine life involves promoting responsible travel practices that minimize negative impacts on marine ecosystems while maximizing benefits for local communities and conservation efforts. Here are key aspects of sustainable marine tourism:

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                        Conservation-focused activities: Encouraging tourists to engage in activities that support marine conservation efforts, such as snorkeling or diving tours that emphasize responsible interactions with marine life, participation in coral reef restoration projects, or wildlife watching tours led by knowledgeable guides who prioritize animal welfare.

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                        Marine protected areas (MPAs): Promoting visitation to well-managed marine protected areas where tourism activities are carefully regulated to minimize ecological disturbance and protect sensitive habitats and species. Supporting the establishment and expansion of MPAs through tourism revenue can provide economic incentives for conservation.

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                        Sustainable infrastructure and operations: Encouraging tourism operators to adopt sustainable practices in their operations, such as minimizing fuel consumption and emissions, reducing waste and plastic use, conserving water resources, and implementing eco-friendly transportation options. Sustainable infrastructure and operations can reduce the ecological footprint of tourism activities on marine environments.

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                    By promoting sustainable tourism practices related to marine life, stakeholders can help preserve fragile marine ecosystems, support local communities, and provide meaningful experiences for visitors while ensuring the long-term sustainability of tourism activities.

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                <h2>Marine Debris Cleanup</h2>

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            <img src="images/forGallery/debrisCleanup.jpg" alt="Photo of ocean cleaning" class="extended\_view\_image\_preview">

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                    Marine debris cleanup efforts are crucial for mitigating the harmful impacts of pollution on ocean ecosystems and marine life. Organizing cleanup activities along coastlines, beaches, and in marine environments helps remove litter, plastic debris, and other waste that threaten marine biodiversity and degrade habitats. These cleanup initiatives not only improve the aesthetic appeal of coastal areas but also contribute to the health and resilience of marine ecosystems by reducing the risk of entanglement, ingestion, and habitat destruction for marine species.

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                    Successful marine debris cleanup requires collaboration among government agencies, non-profit organizations, businesses, and local communities. By mobilizing volunteers and stakeholders, cleanup efforts can cover larger areas and address diverse sources of marine pollution, from beach litter to abandoned fishing gear. Implementing effective waste management practices and recycling initiatives can also help prevent debris from entering marine environments in the first place, complementing cleanup activities and promoting long-term solutions to marine pollution.

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                    Moreover, marine debris cleanup initiatives provide opportunities for public engagement, education, and awareness-raising about the impacts of pollution on marine ecosystems. Participating in cleanup events allows individuals to directly contribute to conservation efforts while learning about the importance of reducing plastic consumption, proper waste disposal, and the need for sustainable practices to protect our oceans. By fostering a sense of environmental stewardship and collective responsibility, marine debris cleanup initiatives can inspire broader action to preserve marine life and safeguard the health of our oceans for future generations.

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                <h2>Sea Law</h2>

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            <img src="images/forGallery/seaLaw.jpg" alt="Container ship image" class="extended\_view\_image\_preview">

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                    Sea law, also known as maritime law or admiralty law, is a body of legal principles and regulations that govern activities and interactions on the seas and oceans. It encompasses a wide range of issues related to navigation, commerce, environmental protection, and the rights and responsibilities of states, vessels, and individuals operating in maritime areas. Sea law is primarily based on international conventions, treaties, customary practices, and national laws, and it plays a crucial role in regulating maritime activities and resolving disputes among maritime stakeholders.

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                <p>Key areas of sea law include:</p>

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                        Navigation and safety: Sea law establishes rules and standards for the safe navigation of vessels, including regulations regarding ship registration, navigation aids, collision avoidance, and search and rescue operations. These regulations aim to prevent maritime accidents, protect human life at sea, and minimize environmental risks.

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                        Maritime commerce and trade: Sea law governs commercial activities and transactions conducted at sea, such as shipping, international trade, and marine insurance. It establishes legal frameworks for contracts, carriage of goods by sea, charter agreements, and liability for maritime accidents, ensuring the smooth flow of commerce and facilitating global trade.

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                        Environmental protection: Sea law addresses environmental issues affecting marine ecosystems, including pollution prevention, conservation of marine biodiversity, and sustainable management of marine resources. International agreements such as the United Nations Convention on the Law of the Sea (UNCLOS) and regional conventions regulate activities such as pollution from ships, dumping of waste at sea, and protection of endangered species and habitats.

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                        Jurisdiction and dispute resolution: Sea law defines the jurisdiction of states over maritime areas and provides mechanisms for resolving disputes arising from maritime activities. It establishes rules for the delimitation of maritime boundaries, resolution of conflicts between states, and adjudication of legal disputes through international tribunals, arbitration, or diplomatic negotiations.

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                    Overall, sea law plays a critical role in promoting safety, security, and cooperation on the seas, while balancing the interests of states, maritime industries, and the global community in the sustainable use and protection of marine resources

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                <h2>Waste Management</h2>

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            <img src="images/forGallery/wasteManagement.jpeg" alt="pool of water filled with waste" class="extended\_view\_image\_preview">

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                    Marine waste management is a critical aspect of preserving the health and integrity of our oceans and coastal environments. It involves the systematic collection, disposal, and recycling of waste generated by human activities in marine and coastal areas. Effective marine waste management strategies aim to reduce pollution, mitigate ecological harm, and promote sustainable practices to protect marine biodiversity and ecosystems.

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                    One key component of marine waste management is the prevention and reduction of waste generation at its source. This includes implementing measures to minimize the use of single-use plastics, promoting reusable alternatives, and raising awareness about the impacts of marine litter on marine life and habitats. Additionally, waste reduction efforts can focus on improving waste management infrastructure and practices in coastal communities and maritime industries, such as proper waste disposal facilities, recycling programs, and waste-to-energy technologies.

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                    Furthermore, marine waste management involves the cleanup and removal of existing marine debris from coastal areas, beaches, and ocean environments. This often requires coordinated efforts involving government agencies, non-profit organizations, businesses, and local communities to organize cleanup events, deploy cleanup vessels, and implement shoreline monitoring programs. By removing debris from marine environments, these cleanup initiatives help mitigate the negative impacts of pollution on marine ecosystems, prevent harm to wildlife, and preserve the aesthetic and recreational value of coastal areas for present and future generations.

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                <h2>Coastal Development</h2>

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                    Coastal development refers to human activities and infrastructure development along coastal areas, which are highly dynamic and ecologically sensitive environments where land meets the sea. Coastal development encompasses a wide range of activities, including residential and commercial construction, tourism development, port and harbor infrastructure, agriculture, and industrial facilities. While coastal development can bring economic benefits and opportunities for communities, it also presents significant challenges and risks to coastal ecosystems, habitats, and natural resources.

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                <p>Key aspects of coastal development include:</p>

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                        Urbanization and infrastructure: Coastal areas often experience rapid population growth and urbanization, leading to the expansion of cities, towns, and infrastructure along coastlines. This includes the construction of residential buildings, hotels, resorts, roads, ports, marinas, and other facilities to accommodate tourism, trade, and recreation. However, unplanned or poorly managed development can result in habitat loss, fragmentation, pollution, and increased vulnerability to natural hazards such as storm surges and sea level rise.

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                        Tourism and recreation: Coastal areas are popular destinations for tourism and recreation, attracting millions of visitors each year for activities such as swimming, surfing, snorkeling, and beachcombing. Tourism development can stimulate local economies, create jobs, and generate revenue for coastal communities. However, it can also lead to environmental degradation, overexploitation of natural resources, and conflicts between tourists and residents over access to coastal areas and amenities.

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                        Environmental impacts: Coastal development can have significant environmental impacts on coastal ecosystems, including habitat destruction, alteration of hydrology and sediment dynamics, pollution from runoff and sewage discharge, and degradation of water quality. These impacts can affect marine biodiversity, fish populations, coral reefs, wetlands, and other sensitive habitats, leading to declines in ecosystem health and resilience.

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                        Climate change vulnerability: Coastal development exacerbates vulnerability to the impacts of climate change, such as sea level rise, increased storm intensity, and coastal erosion. Rising sea levels and storm surges can inundate low-lying areas, erode coastlines, and threaten infrastructure, property, and human lives. Coastal development in hazard-prone areas without adequate adaptation measures increases the risk of coastal flooding, property damage, and loss of life.

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                    Overall, sustainable coastal development requires careful planning, regulation, and management to balance economic development with environmental protection and resilience. Integrated coastal management approaches that consider ecological, social, and economic factors can help minimize negative impacts and promote sustainable development practices that benefit both people and the environment.

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                <h2>Small Scale Fishers</h2>

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            <img src="images/forGallery/fishing.jpeg" alt="Two fishermen on a boat" class="extended\_view\_image\_preview">

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                    Small-scale fishers play a crucial role in coastal communities and contribute significantly to global fisheries production, food security, and livelihoods. These fishers typically operate in nearshore waters using traditional or low-impact fishing methods such as handlines, traps, and small nets, and they often rely on small vessels or artisanal fishing boats. The importance of small-scale fishers stems from several key factors:

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                        Food security and nutrition: Small-scale fishers provide essential sources of protein and nutrition for coastal communities, particularly in developing countries where fish is a primary source of animal protein. Local fisheries supply fresh seafood to markets and households, contributing to food security, dietary diversity, and nutrition for millions of people worldwide.

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                        Livelihoods and employment: Small-scale fisheries support the livelihoods of millions of people, including fishers, fish processors, traders, and their families. Fishing activities generate employment opportunities and income for coastal communities, particularly in remote or marginalized areas where alternative livelihood options may be limited.

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                        Cultural heritage and traditions: Small-scale fishers often practice traditional fishing techniques and have deep cultural connections to the sea and coastal environments. Fishing traditions, knowledge, and skills are passed down through generations, contributing to cultural identity, social cohesion, and community resilience.

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                        Coastal economies and resilience: Small-scale fisheries contribute to the economic resilience of coastal communities by diversifying local economies and providing a buffer against economic shocks and fluctuations. Income generated from fishing activities supports small businesses, infrastructure development, and social services, helping to build resilient communities in the face of environmental, social, and economic challenges.

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                    Overall, recognizing the importance of small-scale fishers and supporting their sustainable livelihoods is essential for promoting food security, poverty alleviation, and environmental conservation in coastal regions. Policies and initiatives that empower small-scale fishers, enhance their access to resources and markets, and promote equitable and inclusive fisheries management can help maximize the socioeconomic benefits of small-scale fisheries while safeguarding marine ecosystems for future generations.

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                <h2>Ocean Governance</h2>

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                    Ocean governance refers to the comprehensive framework of laws, policies, institutions, and practices that govern human activities in marine environments and ensure the sustainable use and conservation of ocean resources. With over 70% of the Earth's surface covered by oceans, effective ocean governance is essential for addressing a wide range of interconnected challenges, including overfishing, marine pollution, habitat destruction, climate change, and maritime security threats. Ocean governance involves multiple stakeholders at local, national, regional, and global levels, working collaboratively to manage marine resources and protect marine ecosystems for present and future generations.

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                    At the international level, ocean governance is governed by a complex network of legal instruments, treaties, and conventions, including the United Nations Convention on the Law of the Sea (UNCLOS), which serves as the overarching legal framework for ocean governance. UNCLOS establishes the rights and responsibilities of states in marine areas beyond national jurisdiction and provides principles for the conservation and sustainable use of marine resources, marine scientific research, and the protection of the marine environment. Other international agreements, such as the Convention on Biological Diversity (CBD), the Convention on the Prevention of Marine Pollution by Dumping of Wastes and Other Matter (London Convention), and the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES), complement UNCLOS by addressing specific issues related to marine biodiversity, pollution, and conservation.

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                    At the national and regional levels, ocean governance involves the development and implementation of laws, regulations, and management measures to protect marine ecosystems, regulate maritime activities, and promote sustainable development. Coastal states are responsible for managing their territorial waters and exclusive economic zones (EEZs) in accordance with international law, while regional organizations and initiatives play a key role in coordinating management efforts, sharing information, and addressing transboundary issues. Integrated coastal management (ICM) approaches, which consider social, economic, and environmental factors, are increasingly being adopted to promote holistic and participatory governance of coastal and marine resources.

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                    Effective ocean governance requires collaboration, cooperation, and coordination among governments, intergovernmental organizations, non-governmental organizations (NGOs), the private sector, indigenous communities, and other stakeholders. Multilateral initiatives, such as the United Nations' Sustainable Development Goal 14 (SDG 14) on conservation and sustainable use of the oceans, seas, and marine resources, provide a global framework for advancing ocean governance objectives and promoting international cooperation. By promoting inclusive, transparent, and science-based decision-making processes, ocean governance can help address the complex challenges facing our oceans and ensure their long-term health, productivity, and resilience.

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            <span>Oceanic <br>Life</span>

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    margin: 0;

    padding: 0;

    width: 100vw;

    max-width: 100%;

    /\* overflow-y: hidden; \*/

}

/\* FONTS\*/

.poppins {

  font-family: "Poppins", serif;

  font-optical-sizing: auto;

  font-weight: 400;

  font-style: normal;

}

.montserrat {

  font-family: "Montserrat", sans-serif;

  font-optical-sizing: auto;

  font-weight: 400;

  font-style: normal;

}

.roboto-regular {

    font-family: "Roboto", sans-serif;

    font-weight: 400;

    font-style: normal;

}

.header{

    position: relative;

    height: 50px;

}

/\* GALLERY VIEW STYLES \*/

#container{

    display: grid;

    grid-template-columns: auto auto auto auto;

    margin-top: 60px;

}

.gallery\_item{

    width: 24.9vw;

    height: 200px;

    background-color: black;

    border: 1px solid #ccc;

    background-size: cover;

}

.gallery\_item:hover{

    cursor: pointer;

    .gallery\_item\_name{

        width: 60%;

    }

}

.gallery\_item\_name{

    overflow: hidden;

    width: 0;

    height: inherit;

    transition: .5s ease-in-out;

    font-size: 23px;

    background-color: black;

    color: white;

    span{

        overflow: hidden;

        display: inline-block;

        margin: 20px 0 0 20px;

        text-decoration: none;

    }

    border-radius: 10px;

}

.read\_more\_text{

    display: inline-block;

    font-size: 15px;

    font-style: italic;

    width: 120px;

}

/\* THUMBNAIL IMAGES \*/

#item\_1{

    background-image: url(../images/forGallery/marineEcosys.jpg);

}

#item\_2{

    background-image: url(../images/forGallery/oceanAcidification.jpg);

}

#item\_3{

    background-image: url(../images/forGallery/sustainableFishing.jpg);

}

#item\_4{

    background-image: url(../images/forGallery/marinePolu.jpg);

}

#item\_5{

    background-image: url(../images/forGallery/publicAwareness.webp);

}

#item\_6{

    background-image: url(../images/forGallery/tourism.jpeg);

}

#item\_7{

    background-image: url(../images/forGallery/debrisCleanup.jpg);

}

#item\_8{

    background-image: url(../images/forGallery/seaLaw.jpg);

}

#item\_9{

    background-image: url(../images/forGallery/wasteManagement.jpeg);

}

#item\_10{

    background-image: url(../images/forGallery/coast.jpg);

}

#item\_11{

    background-image: url(../images/forGallery/fishing.jpeg);

}

#item\_12{

    background-image: url(../images/forGallery/ocean.jpg);

}

#backIcon{

    color: white;

    font-size: 40px;

    font-weight: bold;

    width: 50px;

    position: fixed;

    right: 50px;

    top: 10px;

    display: none;

}

#backIcon:hover{

    cursor: pointer;

    color: #bbb;

}

/\* EXTENDED VIEW STYLING \*/

#extended\_view\_container{

    display: none;

    position: fixed;

    top: 0;

    bottom: 0;

    z-index: 50;

    width: 100%;

    height: 100%;

    overflow: hidden;

    background-color: rgba(0, 0, 0, 0.85);

}

.extended\_view{

    display: none;

    position: fixed;

    width: 60vw;

    height: auto;

    padding: 0px 10px;

    top: 50px;

    bottom: 10vh;

    left: 20vw;

    right: 20vw;

    animation-name: zoom;

    animation-duration: 0.6s;

    overflow-y: auto;

    background-color: white;

    border: 2px solid white;

    border-radius: 8px;

}

.extended\_view\_heading{

    position: fixed;

    width: inherit;

    background-color: white;

    hr {

        margin-bottom: 0px;

    }

}

.extended\_view\_image\_preview{

    position: static;

    height: 320px;

    width: 80%;

    border-radius: 10px;

    margin-top: 100px;

}

@keyframes zoom {

    from {transform: scale(0.1)}

    to {transform: scale(1)}

}

@keyframes slideIn {

    from {left: 0;}

    to {left: 20vw;}

}

.extended\_view::-webkit-scrollbar{

    width: 5px;

    background-color: transparent;

}

.extended\_view::-webkit-scrollbar-track {

    box-shadow: inset 0 0 5px grey;

    border-radius: 10px;

}

.extended\_view::-webkit-scrollbar-thumb {

    background: black;

    border-radius: 10px;

}

.extended\_view::-webkit-scrollbar-thumb:hover {

    background-color: rgba(0, 0, 0, 0.6);

}

/\* PERSONALISATION TAB \*/

.personalisationBar{

    width: 60vw;

    position: fixed;

    top: 10px;

    left: 20vw;

    display: none;

    justify-content: space-between;

    background-color:white ;

    border: 2px solid black;

    border-radius: 20px;

    padding: 5px;

    animation-name: slideIn;

    animation-duration: 0.6s;

    z-index: 60;

}

.font\_selection, .font\_size\_selection, .color\_selection{

    width: 180px;

    display: flex;

    justify-content: space-evenly;

}

.font\_selection span:first-child, .font\_size\_selection span:first-child, .color\_selection span:first-child{

    font-weight: bold;

    font-style: italic;

}

.font\_selection{

    margin-left: 40px;

}

.font\_size\_selection span:not(:first-child):hover{

    cursor: pointer;

    font-weight: bold;

}

.color\_selection{

    margin-right: 40px;

}

.font\_option{

    width: 21px;

    height: 21px;

    display: contents;

}

.font\_option:hover{

    cursor: pointer;

    font-weight: bold;

    background-color: grey;

}

circle:hover{

    cursor: pointer;

    stroke: gray;

    stroke-width: 2;

}

/\* FOOTER CUSTOMISATION FOR GALLERY PAGE \*/

header{

    background-color: white;

}

footer{

    height: 110px;

}

* gallery.js

// DECLARING VARIABLES AND CONSTANTS

const galleryItems = document.getElementsByClassName("gallery\_item");

const extendedViews = document.getElementsByClassName("extended\_view");

const extendedViewContainer = document.getElementById("extended\_view\_container");

let galleryContainer = document.getElementById("container");

let backIcon = document.getElementById("backIcon");

let personalisationBar = document.getElementById('personalisationBar');

// GALLERY VIEW MAIN EVENTS

    // WHEN CLICKED ON GALLERY ITEM

for(let i=0; i<galleryItems.length; i++){

    galleryItems[i].addEventListener("click", function() {

        // ITEMS TO VIEW

        extendedViewContainer.style.display = "block";

        extendedViews[i].style.display = "block";

        backIcon.style.display = "inline";

        personalisationBar.style.display = "flex";

    });

}

    // WHEN CLICKED ON BACK ICON

backIcon.addEventListener("click", function() {

        // ITEMS TO HIDE

    extendedViewContainer.style.display = "none";

    for(let i=0; i<extendedViews.length; i++){

        extendedViews[i].style.display = "none";

    }

    backIcon.style.display = "none";

    personalisationBar.style.display = "none";

        // ITEMS TO VIEW

    galleryContainer.style.display = "grid";

});

// EXTENDED VIEW PERSONALISATION EVENTS

// CHANGE OF FONT

    // to "Roboto"

document.getElementById("roboto-regular").addEventListener("click", function() {

    for(let i=0; i<extendedViews.length; i++){

        // REMOVING EXISTING FONT CUSTOMISATIONS

        extendedViews[i].classList.remove("montserrat", "eb-garamond");

        // ADDING CUSTOMISATION

        extendedViews[i].classList.add("roboto-regular");

    }

});

    // to "Montserrat"

document.getElementById("montserrat").addEventListener("click", function() {

    for(let i=0; i<extendedViews.length; i++){

        // REMOVING EXISTING FONT CUSTOMISATIONS

        extendedViews[i].classList.remove("roboto-regular", "eb-garamond");

        // ADDING CUSTOMISATION

        extendedViews[i].classList.add("montserrat");

    }

});

    // to "eb-geramond"

document.getElementById("poppins").addEventListener("click", function() {

    for(let i=0; i<extendedViews.length; i++){

        // REMOVING EXISTING FONT CUSTOMISATIONS

        extendedViews[i].classList.remove("roboto-regular", "montserrat");

        // ADDING CUSTOMISATION

        extendedViews[i].classList.add("poppins");

    }

});

// CHANGE OF FONT SIZE

    // to 16px

document.getElementById("size\_16").addEventListener("click", function() {

    for(let i=0; i<extendedViews.length; i++){

        // ADDING CUSTOMISATION

        extendedViews[i].querySelector(".extended\_view\_text").style.fontSize = "16px";

        extendedViews[i].querySelector(".extended\_view\_heading").style.fontSize = "16px";

    }

});

    // to 18px

document.getElementById("size\_18").addEventListener("click", function() {

    for(let i=0; i<extendedViews.length; i++){

        // ADDING CUSTOMISATION

        extendedViews[i].querySelector(".extended\_view\_text").style.fontSize = "18px";

        extendedViews[i].querySelector(".extended\_view\_heading").style.fontSize = "18px";

    }

});

    // to 20px

document.getElementById("size\_20").addEventListener("click", function() {

    for(let i=0; i<extendedViews.length; i++){

        // ADDING CUSTOMISATION

        extendedViews[i].querySelector(".extended\_view\_text").style.fontSize = "20px";

        extendedViews[i].querySelector(".extended\_view\_heading").style.fontSize = "20px";

    }

});

// CHANGE OF BACKGROUND COLOR

    // to white

document.getElementById("white\_bg\_option").addEventListener("click", function() {

    for(let i=0; i<extendedViews.length; i++){

        // ADDING CUSTOMISATION

        extendedViews[i].style.backgroundColor = "white";

        extendedViews[i].style.color = "black";

        // ADDING CUSTOMISATION TO HEADING

        extendedViews[i].querySelector(".extended\_view\_heading").style.backgroundColor = "white";

        extendedViews[i].querySelector(".extended\_view\_heading").style.color = "black";

        // CHANGING SCROLLBAR COLORS

    }

});

    // to beige

document.getElementById("beige\_bg\_option").addEventListener("click", function() {

    for(let i=0; i<extendedViews.length; i++){

            // ADDING CUSTOMISATION TO TEXT VIEW

            extendedViews[i].style.backgroundColor = "#F4ECD8";

            extendedViews[i].style.color = "black";

            // ADDING CUSTOMISATION TO HEADING

            extendedViews[i].querySelector(".extended\_view\_heading").style.backgroundColor = "#F4ECD8";

            extendedViews[i].querySelector(".extended\_view\_heading").style.color = "black";

    }

});

    // to black

document.getElementById("black\_bg\_option").addEventListener("click", function() {

    for(let i=0; i<extendedViews.length; i++){

        // ADDING CUSTOMISATION TEXT VIEW

        extendedViews[i].style.backgroundColor = "black";

        extendedViews[i].style.color = "white";

        // ADDING CUSTOMISATION TO HEADING

        extendedViews[i].querySelector(".extended\_view\_heading").style.backgroundColor = "black";

        extendedViews[i].querySelector(".extended\_view\_heading").style.color = "white";

    }

});

* sitemap.html

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Oceanic Life - Sitemap</title>

    <link rel="stylesheet" href="Styles/sitemap.css">

    <link rel="stylesheet" href="Styles/styles.css">

    <style>

        .heading{

            background-color: rgb(49, 143, 243);

        }

        footer{

            position: fixed;

            top: 85%;

        }

        /\* responsive changes \*/

        @media screen and (max-width: 400px) {

            header h1{

                font-size: 1rem;

            }

            footer .logo\_and\_name img{

                width: 50px;

            }

            footer span, .logo\_and\_name span{

                font-size: 0.7rem;

            }

        }

    </style>

</head>

<body>

    <div class="heading">

        <h1>Oceanic Life - SiteMap</h1>

    </div>

    <svg width="100%" height="100%" viewBox="0 0 600 600">

            <!-- NODES -->

                <!-- MAIN BRANCHES -->

                <g class="main\_node">

                    <title>Main node - Home</title>

                    <a href="home.html">

                    <rect x="calc(50% - 26px)" y="3%" width="52px" height="22px"></rect>

                    <text x="48%" y="5.3%">Home</text>

                    </a>

                </g>

                <g class="main\_branches">

                    <title>Sub node - Gallery</title>

                    <a href="gallery.html">

                    <rect x="3%" y="12%" width="52px" height="22px"></rect>

                    <text x="4.8%" y="14.3%">Gallery</text>

                    </a>

                </g>

                <g class="main\_branches">

                    <title>Sub node - Shop</title>

                    <a href="shop.html">

                    <rect x="25%" y="12%" width="52px" height="22px"></rect>

                    <text x="27.5%" y="14.3%">Shop</text>

                    </a>

                </g>

                <g class="main\_branches">

                    <title>Sub node - Team</title>

                    <a href="team.html">

                    <rect x="58%" y="12%" width="52px" height="22px"></rect>

                    <text x="60.5%" y="14.3%">Team</text>

                    </a>

                </g>

                <g class="main\_branches">

                    <title>Sub node - User Profile</title>

                    <a href="profile.html">

                    <rect x="70%" y="12%" width="52px" height="22px"></rect>

                    <text x="70.5%" y="14.3%">User Profile</text>

                    </a>

                </g>

                <g class="main\_branches">

                    <title>Sub node - Feedback</title>

                    <a href="feedback.html">

                    <rect x="88%" y="12%" width="52px" height="22px"></rect>

                    <text x="89.2%" y="14.3%">Feedback</text>

                    </a>

                </g>

                <!-- CONTENT PAGES -->

                <g class="content\_pages">

                    <title>Content Page - Marine Ecosystems</title>

                    <a href="Content/marineEcosystems.html">

                    <rect x="10%" y="20%" width="58px" height="22px"></rect>

                    <text x="12.4%" y="21.5%">Marine</text>

                    <text x="10.8%" y="23%">Ecosystems</text>

                    </a>

                </g>

                <g class="content\_pages">

                    <title>Content Page - Marine Life Awareness</title>

                    <a href="Content/marineLifeAwareness.html">

                    <rect x="32%" y="20%" width="58px" height="22px"></rect>

                    <text x="33.2%" y="21.5%">Marine Life</text>

                    <text x="33.3%" y="23%">Awareness</text>

                    </a>

                </g>

                <g class="content\_pages">

                    <title>Content Page - Marine Pollution</title>

                    <a href="Content/marinePollusion.html">

                    <rect x="52%" y="20%" width="58px" height="22px"></rect>

                    <text x="54.5%" y="21.5%">Marine</text>

                    <text x="54%" y="23%">Pollution</text>

                    </a>

                </g>

                <g class="content\_pages">

                    <title>Content Page - Tackling Overfising</title>

                    <a href="Content/tacklingOverfishing.html">

                    <rect x="81%" y="20%" width="58px" height="22px"></rect>

                    <text x="83.1%" y="21.5%">Tackling</text>

                    <text x="82.5%" y="23%">Overfising</text>

                    </a>

                </g>

                <!-- EDITOR PAGES -->

                <g class="editor\_pages">

                    <title>Editor Page - Student 04</title>

                    <a href="PageEditors/pageEditor4.html">

                    <rect x="6%" y="28%" width="52px" height="22px"></rect>

                    <text x="6.5%" y="30.3%">Student 04</text>

                    </a>

                </g>

                <g class="editor\_pages">

                    <title>Editor Page - Student 01</title>

                    <a href="PageEditors/pageEditor1.html">

                    <rect x="28%" y="28%" width="52px" height="22px"></rect>

                    <text x="28.5%" y="30.3%">Student 01</text>

                    </a>

                </g>

                <g class="editor\_pages">

                    <title>Editor Page - Student 03</title>

                    <a href="PageEditors/pageEditor3.html">

                    <rect x="63%" y="28%" width="52px" height="22px"></rect>

                    <text x="63.5%" y="30.3%">Student 03</text>

                    </a>

                </g>

                <g class="editor\_pages">

                    <title>Editor Page - Student 02</title>

                    <a href="PageEditors/pageEditor2.html">

                    <rect x="86%" y="28%" width="52px" height="22px"></rect>

                    <text x="86.7%" y="30.3%">Student 02</text>

                    </a>

                </g>

            <!-- PATHS -->

            <path d="M 300 40 V 60"/>

                <!-- to main nodes -->

            <path d="M 300 60 H 45 C 45 60, 45 64, 45 72"/>

            <path d="M 175 60 V 72"/>

            <path d="M 375 60 V 72"/>

            <path d="M 445 60 V 72"/>

            <path d="M 300 60 H 555 C 555 60, 555 64, 555 72"/>

                <!-- to content pages -->

            <path d="M 90 60 V 120"/>

            <path d="M 340 60 V 120"/>

            <path d="M 220 60 V 120"/>

            <path d="M 515 60 V 120"/>

                <!-- to editor pages -->

                    <!-- from gallery node-->

            <path d="M 45 94 V 155 C 45 155, 49 155, 55 155 C 55 155, 55 159, 55 168" />

                    <!-- from shop node-->

            <path d="M 175 94 V 155 C 175 155, 179 155, 185 155 C 185 155, 185 159, 185 168" />

                    <!-- from team node -->

            <path d="M 375 94 V 155 C 375 155, 379 155, 385 155 C 385 155, 385 159, 385 168" />

                    <!-- from user profile node -->

            <path d="M 445 94 V 155 C 445 155, 441 155, 420 155 C 420 155, 420 159, 420 168" />

                    <!-- from feedback node -->

            <path d="M 555 94 V 155 C 555 155, 551 155, 545 155 C 545 155, 545 159, 545 168" />

                    <!-- from content page 01 node -->

            <path d="M 90 142 V 155 C 90 155, 86 155, 78 155 C 78 155 78 159, 78 168"/>

                    <!-- from content page 02 node -->

            <path d="M 220 142 V 155 C 220 155, 216 155, 208 155 C 208 155 208 159, 208 168"/>

                    <!-- from content page 03 node -->

            <path d="M 340 142 V 180 C 340 180, 344 180 , 378 180"/>

                    <!-- from content page 04 node -->

            <path d="M 515 142 V 155 C 515 155, 519 155, 527 155 C 527 155 527 159, 527 168"/>

    </svg>

    <footer>

        <div class="logo\_and\_name">

            <img src="Logos/newlogo.jpg" alt="">

            <span>Oceanic <br>Life</span>

        </div>

        <div class="page\_editor\_links">

            <span class="pe\_div">page editors</span>

        <ul>

            <li><a href="PageEditors/pageEditor4.html" target="\_blank">Kenula Nimhan</a></li>

        </ul>

        </div>

    </footer>

    <script src="JS/sitemap.js"></script>

</body>

</html>

* sitemap.css

@import url('https://fonts.googleapis.com/css2?family=Poppins:ital,wght@0,100;0,200;0,300;0,400;0,500;0,600;0,700;0,800;0,900;1,100;1,200;1,300;1,400;1,500;1,600;1,700;1,800;1,900&display=swap');

body{

    overflow-y: hidden;

    font-family: "Poppins", sans-serif;

}

.heading{

    position: fixed;

    top: 0;

    width: 100vw;

    height: 60px;

    padding-bottom: 10px;

}

.heading h1{

    text-align: center;

}

svg{

    margin: auto;

    margin-top: 4%;

    width: 100%;

    height: 100%;

}

rect{

    /\* width: 52px;

    height: 22px; \*/

    stroke: black;

    stroke-width: 0.3;

    transition: ease-in-out 0.3s;

    fill: rgb(49, 143, 243);

    opacity: 0.6;

}

text{

    font-family:"Verdana";

    font-size: 0.5rem;

    fill:black;

}

g:hover rect{

    opacity: 0.9;;

    stroke: #04738f;

}

/\* g:hover text{

    fill: white;

} \*/

/\* .content\_pages rect{

    width: 58px;

} \*/

.main\_node rect{

    fill: #04738f;

}

.main\_branches rect{

    fill: #04738f;

}

.editor\_pages rect{

    fill: rgb(70, 68, 68);

}

/\* PATHS \*/

path{

    fill: none;

    stroke: grey;

    stroke-width: 1;

}

/\* responsive changes \*/

@media screen and (max-width: 1080px){

    svg {

        padding-top: 100px;

    }

}

* sitemap.js

let rectangles = document.getElementsByTagName("rect");

for(let i=0; i<rectangles.length; i++){

    rectangles[i].setAttribute("rx","7");

    rectangles[i].setAttribute("ry","7");

}

* marineEcosystems.html

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Marine Ecosystem</title>

    <link rel="stylesheet" href="../Styles/contentPage.css">

    <link rel="stylesheet" href="../Styles/styles.css">

</head>

<body>

    <header>

        <a href="#" class="logo">

            <img src="../Logos/newlogo.jpg" alt="Oceanic Life Logo">

            <span>Oceanic Life</span>

        </a>

        <div class="navbar">

            <ul>

                <li><a href="../home.html">Home</a></li>

                <li><a href="../gallery.html">Gallery</a></li>

                <li><a href="../shop.html">Shop</a></li>

                <li><a href="../sitemap.html">SiteMap</a></li>

                <li><a href="#">Team</a></li>

                <li><a href="feedback.html">FeedBack</a></li>

            </ul>

        </div>

    </header>

    <!-- CONTENT -->

    <h1>Conserving marine ecosystems for future generations.</h1>

    <div class="sub\_topic\_links\_container">

        <span><a href="#sub\_topic\_1">Understanding Marine Ecosystems</a></span>

        <span><a href="#sub\_topic\_2">Sustainable Management Strategies</a></span>

        <span><a href="#sub\_topic\_3">Adapting to Climate Change</a></span>

    </div>

    <hr>

    <div class="sub\_topic" id="sub\_topic\_1">

        <img src="../images/forContent/page-MarineEco/singapore-aquarium-scaled.jpeg" alt="Image of Corals">

        <div>

            <h2>Understanding Marine Ecosystems</h2>

            <p>Marine ecosystems encompass a vast array of habitats, from coral reefs to deep-sea trenches, each supporting a unique web of life. However, human activities such as overfishing, pollution, and climate change threaten these delicate ecosystems. Understanding the intricate connections within marine environments is crucial for effective conservation efforts.</p>

            <p>Preserving Biodiversity: Marine biodiversity provides essential ecosystem services, including oxygen production, carbon sequestration, and food resources for billions of people. Conserving biodiversity involves protecting key species, such as apex predators like sharks and keystone species like coral reefs, which play critical roles in maintaining ecosystem balance.</p>

            <p>Mitigating Human Impact: Human activities, such as plastic pollution and overfishing, pose significant threats to marine ecosystems. Implementing sustainable fishing practices, reducing plastic waste, and establishing marine protected areas are essential strategies for mitigating these impacts. Additionally, promoting awareness and education about marine conservation can foster behavioral changes necessary for preserving these ecosystems.</p>

        </div>

    </div>

    <div class="sub\_topic" id="sub\_topic\_2">

        <div>

            <h2>Sustainable Management Strategies</h2>

            <p>Effective conservation of marine ecosystems requires comprehensive management strategies that balance environmental protection with socioeconomic needs. Sustainable management approaches aim to maintain ecosystem health while supporting livelihoods and economic development.</p>

            <p>Ecosystem-Based Management: Ecosystem-based management considers the interconnectedness of marine ecosystems and human activities. By adopting holistic approaches that integrate ecological, social, and economic considerations, policymakers can develop strategies that promote long-term sustainability.</p>

            <p>Marine Protected Areas (MPAs): MPAs play a crucial role in conserving marine biodiversity by safeguarding habitats and species from harmful human activities. These designated areas can range from small coastal reserves to vast oceanic sanctuaries, providing safe havens for marine life to thrive and recover.</p>

            <p>Collaborative Governance: Effective conservation requires collaboration among governments, scientists, NGOs, and local communities. Collaborative governance frameworks facilitate knowledge sharing, stakeholder engagement, and consensus-building, leading to more inclusive and effective decision-making processes.</p>

        </div>

        <img src="../images/forContent/page-MarineEco/sub\_topic\_2.jpg" alt="Image of Corals">

    </div>

    <div class="sub\_topic" id="sub\_topic\_3">

        <img src="../images/forContent/page-MarineEco/sub\_topic\_3.jpg" alt="Image of Corals">

        <div>

            <h2>Adapting to Climate Change</h2>

            <p>Climate change poses one of the most significant threats to marine ecosystems, causing ocean warming, acidification, and sea-level rise. To safeguard these fragile environments for future generations, proactive measures must be taken to mitigate and adapt to the impacts of climate change.</p>

            <p>Resilience Building: Enhancing the resilience of marine ecosystems can help them withstand and recover from the impacts of climate change. This includes restoring degraded habitats, reducing additional stressors such as pollution and overfishing, and promoting the genetic diversity of key species.</p>

            <p>Carbon Sequestration: Marine ecosystems, particularly coastal habitats like mangroves and seagrasses, play a vital role in carbon sequestration. Protecting and restoring these ecosystems not only conserves biodiversity but also helps mitigate climate change by capturing and storing carbon dioxide from the atmosphere.</p>

            <p>Community Engagement: Engaging local communities in climate adaptation efforts is essential for success. Empowering coastal communities to implement sustainable practices, such as coastal zone management and resilient infrastructure development, can enhance their adaptive capacity and foster stewardship of marine resources.</p>

            <p>By embracing these approaches and working collaboratively, we can conserve marine ecosystems for future generations, ensuring that they continue to provide invaluable benefits to both people and the planet.</p>

        </div>

    </div>

    <span id="back\_to\_top\_link"><a href="#">Back to top &UpArrow;</a></span>

    <footer>

        <div class="logo\_and\_name">

            <img src="../Logos/newlogo.jpg" alt="Oceanic Life Logo">

            <span>Oceanic <br>Life</span>

        </div>

        <div class="page\_editor\_links">

            <span class="pe\_div">page editors</span>

        <ul>

            <li><a href="../PageEditors/pageEditor4.html" target="\_blank">Kenula Nimhan</a></li>

        </ul>

        </div>

    </footer>

    <script src="../JS/header.js"></script>

</body>

</html>

* contentPage.css

body{

    margin: 0;

    padding: 0;

    height: 100vh;

    width: 100vw;

    font-family: "Poppins", sans-serif;

    overflow-x: hidden;

}

h1{

    margin-top: 80px;

    text-align: center;

    text-transform: uppercase;

}

.sub\_topic\_links\_container{

    display: flex;

    justify-content: space-evenly;

}

.sub\_topic\_links\_container span {

    padding: 5px;

    cursor: pointer;

    border-radius: 10px;

    transition: ease-in-out 0.5s;

}

.sub\_topic\_links\_container span:hover{

    background-color: #04738f;

    border-radius: 10px;

    a{

        color: white;

    }

}

.sub\_topic\_links\_container span a{

    text-decoration: none;

    color: black;

}

.sub\_topic{

    width: 100%;

    display: flex;

}

.sub\_topic img{

    width: 35vw;

    height: max-content;

    margin: 75px 60px 60px 60px;

    border-radius: 20px;

}

.sub\_topic div{

    margin: 40px 40px 40px 40px;

}

#sub\_topic\_2{

    background-color: #04738f;

    color: white;

}

#back\_to\_top\_link{

    width: 100%;

    display: inline-block;

    text-align: right;

    /\* margin-right: 10px; \*/

    margin-bottom: 20px;

    font-size: 20px;

}

#back\_to\_top\_link a{

    text-decoration: none;

    color: black;

}

#back\_to\_top\_link a:hover{

    text-decoration: underline;

}

* pageEditor4.html

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Page Editor - Student 04</title>

    <link rel="stylesheet" href="../Styles/pageEditor.css">

    <!-- FONTS -->

    <link rel="preconnect" href="https://fonts.googleapis.com">

    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>

    <link href="https://fonts.googleapis.com/css2?family=Source+Code+Pro:ital,wght@0,200..900;1,200..900&display=swap" rel="stylesheet">

</head>

<body>

    <header>PAGE EDITOR</header>

    <section class="student\_info\_section">

        <span>Name: Kenula Nimhan</span><br>

        <span>IIT No: 20222012 | UoW No: w2052856</span><br>

        <span>Role: Student 04</span><br>

    </section>

    <section class="pages\_created\_section">

        <span>Pages Created:</span>

        <span id="page\_one\_heading">Gallery</span>

        <span id="page\_two\_heading">SiteMap</span>

        <span id="page\_three\_heading">Content Page</span>

    </section>

    <section class="page\_links\_section">

        <h4>page links;</h4>

        <a href="../gallery.html" class="page\_link">view gallery</a><br>

        <a href="../sitemap.html" class="page\_link">view sitemap</a><br>

        <a href="../Content/marineEcosystems.html" class="page\_link">view content page</a><br>

    </section>

    <div class="page\_info page\_one\_info">

        <ul>

            <li><b>-</b> Used HTML, CSS, JavaScript.</li><br>

            <li><b>-</b> Created a gallery with 12 clickable tiles.</li><br>

            <li><b>-</b> Upon hovering displays topic of selected tile.</li><br>

            <li><b>-</b> When clicked gives a detailed description on the particular topic.</li><br>

            <li><b>-</b> Customisation can be done in extended view. <br>   [change of background color, change of font].</li><br>

        </ul>

    </div>

    <div class="page\_info page\_two\_info">

        <ul>

            <li><b>-</b> Created using SVG</li><br><br>

            <li><b>-</b> Main nodes, and sub nodes indicated.</li><br><br>

            <li><b>-</b> Nodes are linked to corresponding page</li><br><br>

            <li><b>-</b> Paths are properly defined using SVG</li><br><br>

            <li><b>-</b> Is responsive.</li><br><br><br><br>

        </ul>

    </div>

    <div class="page\_info page\_three\_info">

        <ul>

            <li><b>-</b> Topic - Marine Ecosystems</li><br><br>

            <li><b>-</b> Lengthy content including images</li><br><br>

            <li><b>-</b> Internal links for ease of navigation</li><br><br>

            <li><b>-</b> Readable Layout</li><br><br><br><br><br><br>

        </ul>

    </div>

    <script src="../JS/pageEditor.js"></script>

</body>

</html>

* pageEditor.css

body{

    margin: 0;

    padding: 0;

    background-color: grey;

    font-family: "Source Code Pro", monospace;

    font-optical-sizing: auto;

    font-weight: weight;

    font-style: normal;

}

header{

    font-size: 40px;

    text-decoration: underline;

    text-align: center;

    margin-bottom: 10px;

}

.student\_info\_section{

    margin: auto;

    width: 80%;

    height: 90px;

    background-color: beige;

    border: 2px solid black;

    border-radius: 20px;

    text-align: center;

    padding-top: 25px;

}

.pages\_created\_section{

    width: 80%;

    display: flex;

    justify-content: space-between;

    margin: auto;

    margin-top: 20px;

}

.pages\_created\_section span:not(:first-child):hover{

    cursor: pointer;

    font-weight: bold;

}

ul {

    padding: 0;

    list-style-type: none;

    text-align: left;

}

.page\_info{

    width: 400px;

    margin-top: 40px;

    text-align: center;

    padding-left: 20px;

    border-right: 1px solid black;

    border-left: 1px solid black;

    display: none;

    position: absolute;

    bottom: 16vh;

    animation: slideUp;

    animation-duration: 1s;

}

.page\_one\_info{

    left: 25.5vw;

}

.page\_two\_info{

    left: 49vw;

}

.page\_three\_info{

    right: 10px;

}

.page\_links\_section{

    position: absolute;

    left: 155px;

    bottom: 50%;

}

.page\_link{

    text-decoration: none;

    color: black;

    margin-bottom: 10px;

}

.page\_link:hover{

    text-decoration: underline;

}

@keyframes slideUp {

    from {bottom: 0}

    to {bottom: 16vh}

}

@keyframes slideUpTwo {

    from {bottom: 0}

    to {bottom: 24vh}

}

@keyframes slideDown {

    from {bottom: 16vh}

    to {bottom: 0}

}

* pageEditor.js

let pageOneHeader = document.getElementById("page\_one\_heading");

let pageTwoHeader = document.getElementById("page\_two\_heading");

let pageThreeHeader = document.getElementById("page\_three\_heading");

let pageDetails = document.getElementsByClassName("page\_info");

console.log(pageDetails)

pageOneHeader.addEventListener("mouseover", function() {

    pageDetails[0].style.display = "block";

});

pageOneHeader.addEventListener("mouseleave", function() {

    pageDetails[0].style.display = "none";

});

pageTwoHeader.addEventListener("mouseover", function() {

    pageDetails[1].style.display = "block";

});

pageTwoHeader.addEventListener("mouseleave", function() {

    pageDetails[1].style.display = "none";

});

pageThreeHeader.addEventListener("mouseover", function() {

    pageDetails[2].style.display = "block";

});

pageThreeHeader.addEventListener("mouseleave", function() {

    pageDetails[2].style.display = "none";

});

## Appendix B: Screenshots

* gallery.html

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

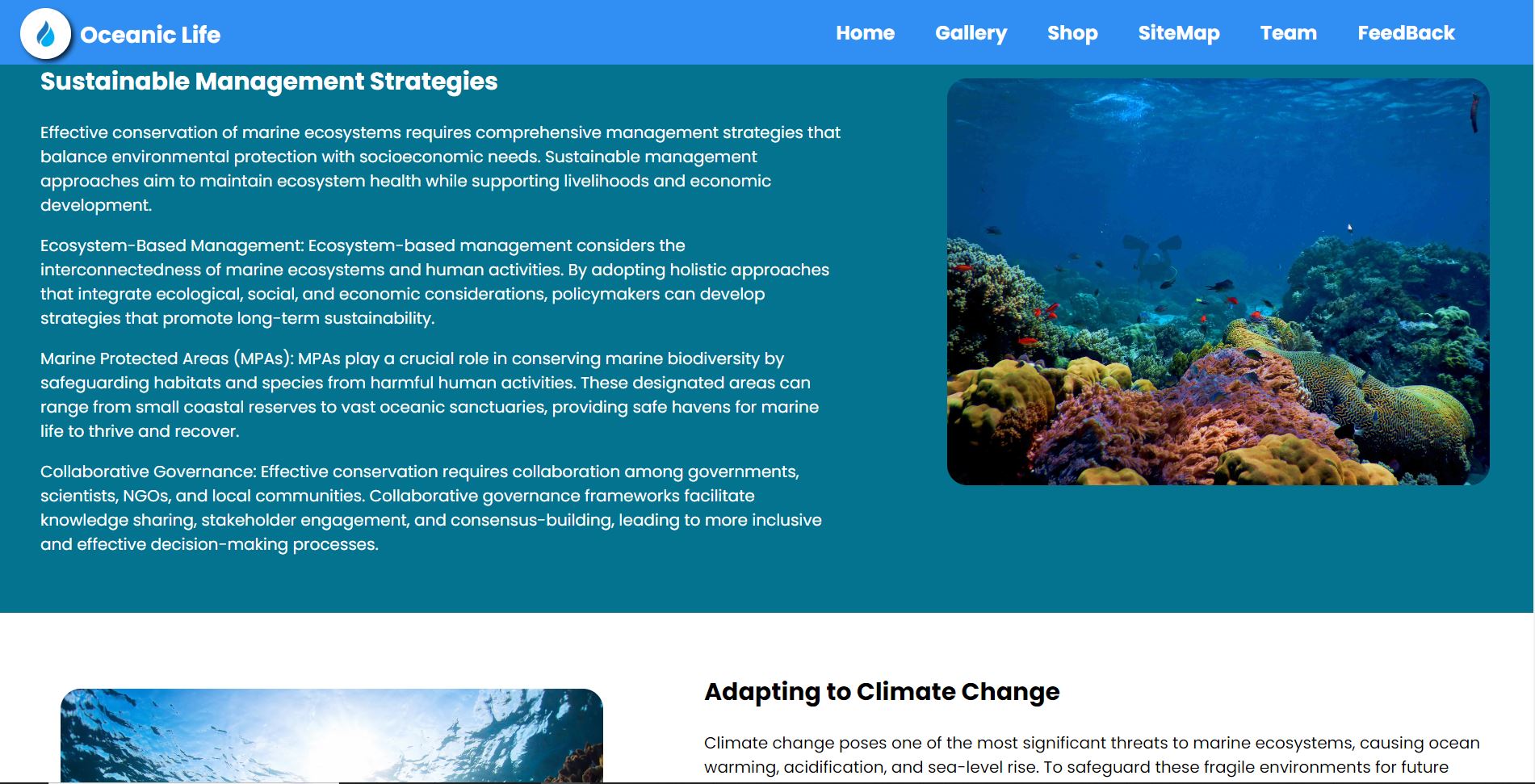
* sitemap.html

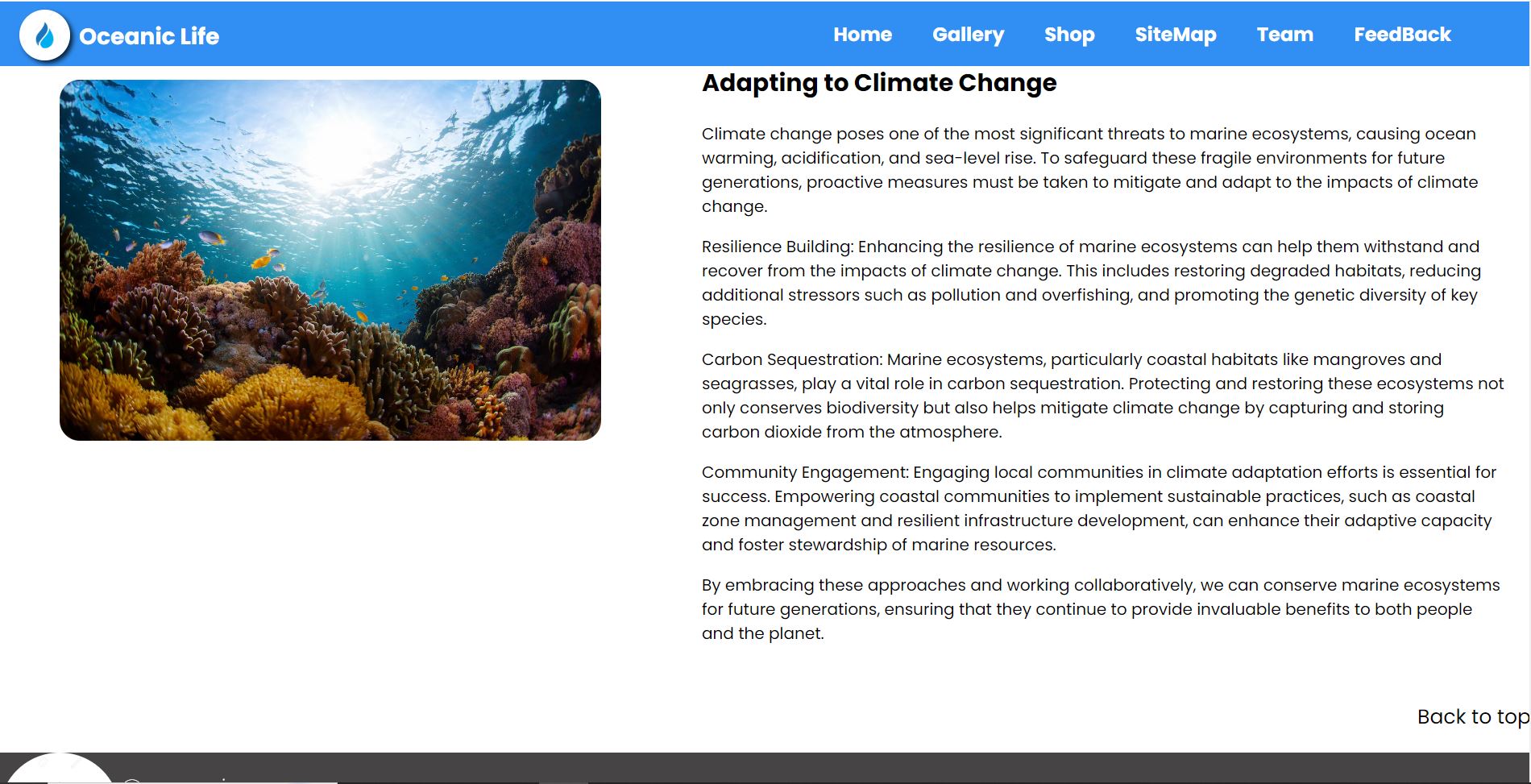
A computer screen shot of a diagram

Description automatically generated

* marineEcosystems.html







* pageEditor4.html

A grey and black page editor

Description automatically generated

## Appendix C: Screenshots - Webpage Validation Evidence

* gallery.html

A screenshot of a computer

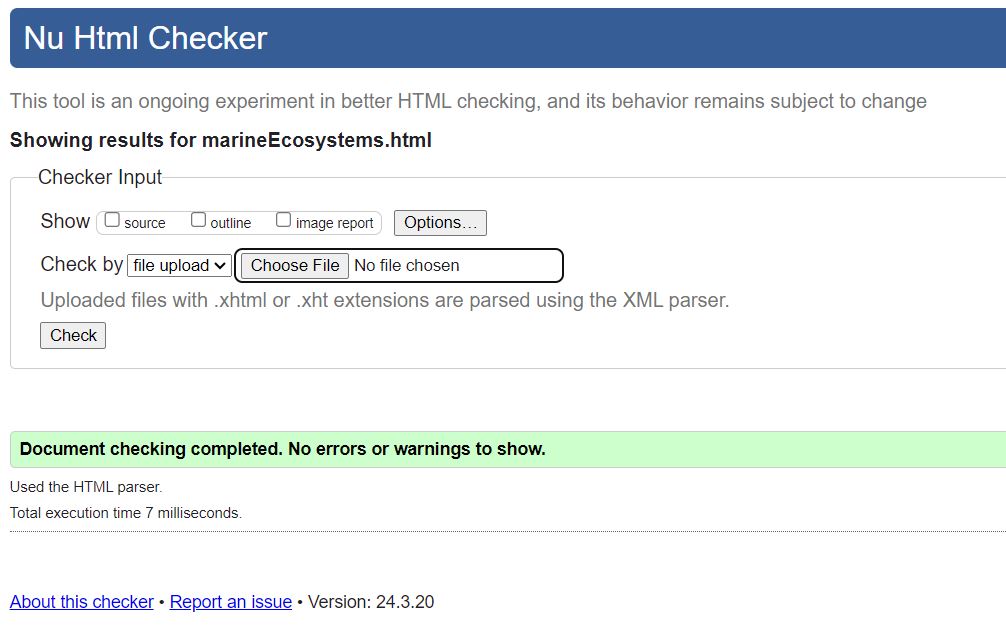
Description automatically generated

* sitemap.html

A screenshot of a computer

Description automatically generated

* marineEcosystems.html



## Appendix D: Task Completion Checklist

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