Index.html

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Advanced Web Page</title>

    <!-- Link to Custom CSS -->

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

    <!-- Bootstrap CSS -->

    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">

    <!-- Bootstrap JS -->

    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body class="m-0">

    <!-- Header Section -->

    <header class="bg-primary text-white py-3 border">

        <div class="container-fluid d-flex align-items-center justify-content-between">

            <!-- Title -->

            <h3 class="m-0 col-sm-3">Advanced Web Page</h3>

            <!-- Navigation Bar -->

            <nav class="col-sm-9">

                <a href="#" class="text-white me-3 text-decoration-none">Home</a>

                <a href="#" class="text-muted me-3 text-decoration-none">About</a>

                <a href="#" class="text-muted me-3 text-decoration-none">Features</a>

                <a href="#" class="text-muted text-decoration-none">Contact</a>

            </nav>

        </div>

    </header>

    <!-- Main Content -->

    <main class="container mt-4">

        <h2>Explore Advanced Web Features</h2>

        <div class="container mt-4">

            <div class="row ">

                <!-- Text Section -->

                <div class="col-sm-6">

                    <p id="paragraphText" class="collapse show">

                        This project demonstrates advanced features of web

                        development, including dynamic content manipulation, event

                        handling, object-oriented programming, and responsive design.

                    </p>

                    <!-- Toggle Button -->

                    <button

                        class="btn btn-dark"

                        data-bs-toggle="collapse"

                        data-bs-target="#paragraphText">

                        Show/Hide Details

                    </button>

                </div>

                <!-- Image Section -->

                <div class="col-sm-6">

                    <img class="img-fluid rounded" src="ice.jpg" alt="Project Image">

                </div>

            </div>

        </div>

        <div class="container my-5">

            <h3 class="container">Dynamic Product List</h1>

            <div id="product-container" class="row"></div>

        </div>

        <div class="container mt-5">

            <h3>Contact Us</h3>

            <!-- Form -->

            <form id="contactForm">

                <div class="row">

                    <!-- Name Field -->

                    <div class="col-sm-6 mb-3">

                        <label for="name" class="form-label">Name</label>

                        <input type="text" id="name" class="form-control" placeholder="Enter your name" required>

                    </div>

                    <!-- Email Field -->

                    <div class="col-sm-6 mb-3">

                        <label for="email" class="form-label">Email</label>

                        <input type="email" id="email" class="form-control" placeholder="Enter your email" required>

                    </div>

                </div>

                <!-- Message Field -->

                <div class="mb-3">

                    <label for="message" class="form-label">Message</label>

                    <textarea id="message" class="form-control" rows="4" placeholder="Enter your message" required></textarea>

                </div>

                <!-- Submit Button -->

                <button type="submit" class="btn btn-primary">Submit</button>

            </form>

            <!-- Success Message (Hidden by default) -->

            <div id="successMessage" class="alert alert-success mt-3" style="display: none;">

                <strong>Success!</strong> Your message has been submitted.

            </div>

        </div>

        <div class="container d-flex justify-content-center mt-5">

            <button onclick="toggleDarkMode()" class="bg-dark text-white my-1" id="btn">Toggle Dark Mode</button>

        </div>

    </main>

    <footer class="bg-dark">

        <div class=" container justify-content-center">

            <p class="text-white text-center">&copy; Advanced Web development. Follow us :</p>

            <nav class="text-center">

                <a href="#" class="text-white mx-2"><u>Facebook</u></a>

                <a href="#" class="text-white mx-2"><u>Twitter</u></a>

                <a href="#" class="text-white mx-2"><u>LinkedIn</u></a>

            </nav>

        </div>

    </footer>

    <!-- Link to Custom JavaScript -->

    <script src="script.js"></script>

</body>

</html>

Style.css

/\* Example CSS file \*/

h1 {

    color: blue;

    text-align: center;

    outline: 2px solid red; /\* Adding an outline \*/

}

button {

    padding: 10px 20px;

    font-size: 16px;

    outline: 2px dashed green; /\* Adding an outline \*/

}

h2{

    text-align: center;

}

.dark-mode {

    background-color: black;

    color: white;

}

#btn{

    justify-content: center;

}

Script.js

function toggleDarkMode() {

    document.body.classList.toggle('dark-mode');

}

const form = document.getElementById('contactForm');

const successMessage = document.getElementById('successMessage');

            // Add event listener to handle form submission

form.addEventListener('submit', function(event) {

    // Prevent the form from actually submitting and refreshing the page

    event.preventDefault();

                // Get the form data (optional, for debugging)

    const name = document.getElementById('name').value;

    const email = document.getElementById('email').value;

    const message = document.getElementById('message').value;

    // Display success message in the UI

    successMessage.style.display = 'block';

    // Log success message and form data to the console

    console.log('Form Submitted');

    console.log('Name:', name);

    console.log('Email:', email);

    console.log('Message:', message);

                // Optionally, clear the form fields

    form.reset();

});

// Product data stored in JavaScript

const products = [

    {

        name: "Product A",

        description: "This is a Product A",

        price: 10

    },

    {

        name: "Product B",

        description: "This is a Product B",

        price: 20

    },

    {

        name: "Product C",

        description: "This is a Product C",

        price: 30

    },

    {

        name: "Product D",

        description: "This is a Product D",

        price: 40

    }

];

// Function to dynamically create cards and display them in the HTML

function displayProducts() {

    const container = document.getElementById('product-container'); // Get the container div

    container.innerHTML = ""; // Clear any existing content

    products.forEach(product => {

        const card = document.createElement('div');

        card.classList.add('card', 'col-sm-3', 'm-4');

        const cardBody = document.createElement('div');

        cardBody.classList.add('card-body');

        const cardTitle = document.createElement('h4');

        cardTitle.classList.add('card-title');

        cardTitle.textContent = product.name;

        const cardText = document.createElement('p');

        cardText.classList.add('card-text', 'my-4');

        cardText.textContent = product.description;

        const priceText = document.createElement('p');

        priceText.classList.add('text-primary');

        // priceText.textContent = Price : $${product.price};

        priceText.textContent = product.price

        // Append elements to card body and card

        cardBody.appendChild(cardTitle);

        cardBody.appendChild(cardText);

        cardBody.appendChild(priceText);

        card.appendChild(cardBody);

        // Append the card to the container

        container.appendChild(card);

    });

}

// document.getElementById("btn").onclick=toggleDarkMode(); --> not needed given in index.html i have

// Call the function to display products when the page loads

document.addEventListener('DOMContentLoaded', displayProducts);