2

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Cozy Cafe</title>

    <!-- Bootstrap CSS -->

    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">

</head>

<body>

    <!-- Navbar -->

    <nav class="navbar navbar-expand-lg navbar-dark bg-dark">

        <div class="container">

            <a class="navbar-brand" href="#">Cozy Cafe</a>

            <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">

                <span class="navbar-toggler-icon"></span>

            </button>

            <div class="collapse navbar-collapse" id="navbarNav">

                <ul class="navbar-nav ms-auto">

                    <li class="nav-item"><a class="nav-link" href="#">Home</a></li>

                    <li class="nav-item"><a class="nav-link" href="#">Menu</a></li>

                    <li class="nav-item"><a class="nav-link" href="#">About</a></li>

                    <li class="nav-item"><a class="nav-link" href="#">Contact</a></li>

                </ul>

            </div>

        </div>

    </nav>

    <!-- Hero Section -->

    <div class="text-center bg-light py-5">

        <h1>Welcome to Cozy Cafe</h1>

        <p>Enjoy our coffee and snacks in a cozy environment.</p>

    </div>

    <!-- Menu Section -->

    <div class="container my-5">

        <h2 class="text-center mb-4">Our Menu</h2>

        <div class="row">

            <div class="col-md-4 text-center">

                <h3>Coffee</h3>

                <p>Fresh and aromatic coffee.</p>

            </div>

            <div class="col-md-4 text-center">

                <h3>Pastries</h3>

                <p>Delicious treats baked daily.</p>

            </div>

            <div class="col-md-4 text-center">

                <h3>Snacks</h3>

                <p>Perfect pairings for your drinks.</p>

            </div>

        </div>

    </div>

    <!-- Footer -->

    <footer class="bg-dark text-white text-center py-3">

        <p>&copy; 2024 Cozy Cafe</p>

    </footer>

    <!-- Bootstrap JS -->

    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>

</body>

</html>

4 html

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Event Handling Demo</title>

    <style>

        body {

            font-family: Arial, sans-serif;

            text-align: center;

            margin-top: 50px;

        }

        button {

            margin: 10px;

            padding: 10px 20px;

            font-size: 16px;

        }

        .box {

            width: 100px;

            height: 100px;

            background-color: lightblue;

            margin: 20px auto;

            transition: background-color 0.3s;

        }

    </style>

</head>

<body>

    <h1>JavaScript Event Handling</h1>

    <!-- Event 1: Click -->

    <button id="clickButton">Click Me</button>

    <!-- Event 2: Mouse Over -->

    <button id="hoverButton">Hover Over Me</button>

    <!-- Event 3: Key Down -->

    <input type="text" id="keyInput" placeholder="Type something..." />

    <!-- Event 4: Double Click -->

    <button id="doubleClickButton">Double Click Me</button>

    <!-- Event 5: Change -->

    <select id="dropdown">

        <option value="Option 1">Option 1</option>

        <option value="Option 2">Option 2</option>

        <option value="Option 3">Option 3</option>

    </select>

    <!-- Event 6: Mouse Out -->

    <div class="box" id="colorBox"></div>

    <!-- Link to external JavaScript -->

    <script src="script1.js"></script>

</body>

</html>

4 js

// Event 1: Click

document.getElementById('clickButton').addEventListener('click', () => {

    alert('Button clicked!');

});

// Event 2: Mouse Over

document.getElementById('hoverButton').addEventListener('mouseover', () => {

    hoverButton.textContent = 'Hovered!';

});

// Event 3: Key Down

document.getElementById('keyInput').addEventListener('keydown', (event) => {

    console.log('Key pressed:', event.key);

});

// Event 4: Double Click

document.getElementById('doubleClickButton').addEventListener('dblclick', () => {

    doubleClickButton.style.backgroundColor = 'lightgreen';

});

// Event 5: Change

document.getElementById('dropdown').addEventListener('change', (event) => {

    alert('You selected: ' + event.target.value);

});

// Event 6: Mouse Out

document.getElementById('colorBox').addEventListener('mouseout', () => {

    colorBox.style.backgroundColor = 'lightcoral';

});

5 html

// Event 1: Click

document.getElementById('clickButton').addEventListener('click', () => {

    alert('Button clicked!');

});

// Event 2: Mouse Over

document.getElementById('hoverButton').addEventListener('mouseover', () => {

    hoverButton.textContent = 'Hovered!';

});

// Event 3: Key Down

document.getElementById('keyInput').addEventListener('keydown', (event) => {

    console.log('Key pressed:', event.key);

});

// Event 4: Double Click

document.getElementById('doubleClickButton').addEventListener('dblclick', () => {

    doubleClickButton.style.backgroundColor = 'lightgreen';

});

// Event 5: Change

document.getElementById('dropdown').addEventListener('change', (event) => {

    alert('You selected: ' + event.target.value);

});

// Event 6: Mouse Out

document.getElementById('colorBox').addEventListener('mouseout', () => {

    colorBox.style.backgroundColor = 'lightcoral';

});

5 js

// Get form elements

const form = document.getElementById("registrationForm");

const fullName = document.getElementById("fullName");

const email = document.getElementById("email");

const password = document.getElementById("password");

const phone = document.getElementById("phone");

const age = document.getElementById("age");

const submitButton = document.getElementById("submitButton");

const nameError = document.getElementById("nameError");

const emailError = document.getElementById("emailError");

const passwordError = document.getElementById("passwordError");

const phoneError = document.getElementById("phoneError");

const ageError = document.getElementById("ageError");

// Validation flags

let isNameValid = false;

let isEmailValid = false;

let isPasswordValid = false;

let isPhoneValid = false;

let isAgeValid = false;

// Regular expressions

const nameRegex = /^[a-zA-Z\s]{3,}$/;

const emailRegex = /^[a-zA-Z0-9.\_-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$/;

const passwordRegex = /^(?=.\*[A-Za-z])(?=.\*\d)[A-Za-z\d]{6,}$/;

const phoneRegex = /^\d{10}$/;

// Validation functions

fullName.addEventListener("input", () => {

    if (nameRegex.test(fullName.value)) {

        nameError.textContent = "";

        isNameValid = true;

    } else {

        nameError.textContent = "Name must be at least 3 characters long and only contain letters and spaces.";

        isNameValid = false;

    }

    toggleSubmitButton();

});

email.addEventListener("input", () => {

    if (emailRegex.test(email.value)) {

        emailError.textContent = "";

        isEmailValid = true;

    } else {

        emailError.textContent = "Please enter a valid email address.";

        isEmailValid = false;

    }

    toggleSubmitButton();

});

password.addEventListener("input", () => {

    if (passwordRegex.test(password.value)) {

        passwordError.textContent = "";

        isPasswordValid = true;

    } else {

        passwordError.textContent = "Password must be at least 6 characters long and contain letters and numbers.";

        isPasswordValid = false;

    }

    toggleSubmitButton();

});

phone.addEventListener("input", () => {

    if (phoneRegex.test(phone.value)) {

        phoneError.textContent = "";

        isPhoneValid = true;

    } else {

        phoneError.textContent = "Phone number must be 10 digits.";

        isPhoneValid = false;

    }

    toggleSubmitButton();

});

age.addEventListener("input", () => {

    if (age.value >= 18 && age.value <= 120) {

        ageError.textContent = "";

        isAgeValid = true;

    } else {

        ageError.textContent = "Age must be between 18 and 120.";

        isAgeValid = false;

    }

    toggleSubmitButton();

});

// Enable submit button only if all fields are valid

function toggleSubmitButton() {

    submitButton.disabled = !(isNameValid && isEmailValid && isPasswordValid && isPhoneValid && isAgeValid);

}

// Handle form submission

form.addEventListener("submit", (event) => {

    event.preventDefault();

    alert("Registration successful!");

});

6 html

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Simple Shopping Cart</title>

    <style>

        body {

            font-family: Arial, sans-serif;

            margin: 20px;

        }

        #cartItems li {

            cursor: pointer;

            padding: 5px;

            border: 1px solid #ccc;

            margin: 5px 0;

        }

        #cartItems li.selected {

            background-color: #007bff;

            color: white;

        }

    </style>

</head>

<body>

    <h1>Simple Shopping Cart</h1>

    <input type="text" id="itemInput" placeholder="Enter item">

    <button id="addItemBtn">Add Item</button>

    <button id="deleteItemBtn">Delete Item</button>

    <button id="moveUpBtn">Move Up</button>

    <button id="moveDownBtn">Move Down</button>

    <button id="changeColorBtn">Change Color</button>

    <button id="changeFontBtn">Change Font</button>

    <ul id="cartItems"></ul>

    <script src="script3.js"></script>

</body>

</html>

6 js

// Get references to elements

const itemInput = document.getElementById("itemInput");

const addItemBtn = document.getElementById("addItemBtn");

const deleteItemBtn = document.getElementById("deleteItemBtn");

const moveUpBtn = document.getElementById("moveUpBtn");

const moveDownBtn = document.getElementById("moveDownBtn");

const changeColorBtn = document.getElementById("changeColorBtn");

const changeFontBtn = document.getElementById("changeFontBtn");

const cartItems = document.getElementById("cartItems");

// Function to add an item

addItemBtn.addEventListener("click", () => {

    const itemName = itemInput.value.trim();

    if (itemName === "") return alert("Enter an item!");

    const li = document.createElement("li");

    li.textContent = itemName;

    li.addEventListener("click", () => selectItem(li));

    cartItems.appendChild(li);

    itemInput.value = "";

});

// Function to select an item

function selectItem(item) {

    document.querySelectorAll("#cartItems li").forEach((li) => li.classList.remove("selected"));

    item.classList.add("selected");

}

// Function to delete the selected item

deleteItemBtn.addEventListener("click", () => {

    const selectedItem = document.querySelector("#cartItems .selected");

    if (selectedItem) selectedItem.remove();

    else alert("No item selected!");

});

// Function to move the selected item up

moveUpBtn.addEventListener("click", () => {

    const selectedItem = document.querySelector("#cartItems .selected");

    if (selectedItem && selectedItem.previousElementSibling) {

        cartItems.insertBefore(selectedItem, selectedItem.previousElementSibling);

    }

});

// Function to move the selected item down

moveDownBtn.addEventListener("click", () => {

    const selectedItem = document.querySelector("#cartItems .selected");

    if (selectedItem && selectedItem.nextElementSibling) {

        cartItems.insertBefore(selectedItem.nextElementSibling, selectedItem);

    }

});

// Function to change the color of the selected item

changeColorBtn.addEventListener("click", () => {

    const selectedItem = document.querySelector("#cartItems .selected");

    if (selectedItem) {

        selectedItem.style.backgroundColor = "orange";

        selectedItem.style.color = "white";

    } else {

        alert("No item selected!");

    }

});

// Function to change the font of the selected item

changeFontBtn.addEventListener("click", () => {

    const selectedItem = document.querySelector("#cartItems .selected");

    if (selectedItem) {

        selectedItem.style.fontFamily = "Courier New, monospace";

        selectedItem.style.fontSize = "18px";

    } else {

        alert("No item selected!");

    }

});

7 js

import React, { useState, useEffect } from 'react';

import './App.css'; // Import the CSS file

const App = () => {

// States for handling form input and submitted data

const [name, setName] = useState('');

const [email, setEmail] = useState('');

const [dob, setDob] = useState(''); // State for Date of Birth

const [phone, setPhone] = useState(''); // State for Phone Number

const [gender, setGender] = useState(''); // State for Gender

const [address, setAddress] = useState(''); // State for Address

const [submittedData, setSubmittedData] = useState(null);

// useEffect hook to log when the component mounts

useEffect(() => {

console.log('App component mounted.');

}, []);

// Event handler for form submission

const handleSubmit = (e) => {

e.preventDefault(); // Prevents page reload on form submission

// Save the submitted data to state

setSubmittedData({

name,

email,

dob,

phone,

gender,

address,

});

// Reset input fields after submission

setName('');

setEmail('');

setDob('');

setPhone('');

setGender('');

setAddress('');

};

// Inline styles example

const inlineStyles = {

container: {

display: 'flex',

flexDirection: 'column',

alignItems: 'center',

padding: '20px',

},

form: {

display: 'flex',

flexDirection: 'column',

gap: '10px',

marginBottom: '20px',

},

input: {

padding: '8px',

fontSize: '16px',

borderRadius: '4px',

border: '1px solid #ccc',

},

select: {

padding: '8px',

fontSize: '16px',

borderRadius: '4px',

border: '1px solid #ccc',

},

textarea: {

padding: '8px',

fontSize: '16px',

borderRadius: '4px',

border: '1px solid #ccc',

resize: 'none',

},

button: {

padding: '10px 20px',

backgroundColor: '#4CAF50',

color: 'white',

border: 'none',

borderRadius: '5px',

cursor: 'pointer',

},

greetingButton: {

marginTop: '20px',

},

};

return (

<div style={inlineStyles.container}>

<h1>React Form with Additional Fields</h1>

{/\* Form Section \*/}

<form style={inlineStyles.form} onSubmit={handleSubmit}>

{/\* Name Field \*/}

<input

type="text"

placeholder="Enter your name"

value={name}

onChange={(e) => setName(e.target.value)}

style={inlineStyles.input}

required

/>

{/\* Email Field \*/}

<input

type="email"

placeholder="Enter your email"

value={email}

onChange={(e) => setEmail(e.target.value)}

style={inlineStyles.input}

required

/>

{/\* Date of Birth Field \*/}

<input

type="date"

placeholder="Enter your date of birth"

value={dob}

onChange={(e) => setDob(e.target.value)}

style={inlineStyles.input}

required

/>

{/\* Phone Number Field \*/}

<input

type="tel"

placeholder="Enter your phone number"

value={phone}

onChange={(e) => setPhone(e.target.value)}

style={inlineStyles.input}

pattern="[0-9]{10}" // Ensure a valid 10-digit phone number format

required

/>

{/\* Gender Field \*/}

<select

value={gender}

onChange={(e) => setGender(e.target.value)}

style={inlineStyles.select}

required

>

<option value="" disabled>

Select your gender

</option>

<option value="Male">Male</option>

<option value="Female">Female</option>

<option value="Other">Other</option>

</select>

{/\* Address Field \*/}

<textarea

placeholder="Enter your address"

value={address}

onChange={(e) => setAddress(e.target.value)}

style={inlineStyles.textarea}

rows="3"

required

></textarea>

{/\* Submit Button \*/}

<button type="submit" style={inlineStyles.button}>Submit</button>

</form>

{/\* Show submitted data if available \*/}

{submittedData && (

<div className="submitted-data">

<h3>Submitted Data:</h3>

<p><strong>Name:</strong> {submittedData.name}</p>

<p><strong>Email:</strong> {submittedData.email}</p>

<p><strong>Date of Birth:</strong> {submittedData.dob}</p>

<p><strong>Phone Number:</strong> {submittedData.phone}</p>

<p><strong>Gender:</strong> {submittedData.gender}</p>

<p><strong>Address:</strong> {submittedData.address}</p>

</div>

)}

{/\* Greeting Button \*/}

<button

onClick={() => alert(`Hello, ${name || 'Guest'}!`)}

style={{ ...inlineStyles.button, ...inlineStyles.greetingButton }}

>

Greet Me

</button>

</div>

);

};

export default App;

7 css

.submitted-data {

background-color: #f4f4f4;

padding: 10px;

border-radius: 5px;

border: 1px solid #ccc;

margin-top: 20px;

width: 80%;

max-width: 400px;

text-align: center;

}

h1 {

color: #333;

font-size: 2rem;

text-align: center;

}

8 js

const http = require('http');

const hostname = '127.0.0.1';

const port = 3000;

const server = http.createServer((req, res) => {

res.statusCode = 200;

res.setHeader('Content-Type', 'text/plain');

res.end('Hello World\n'); });

server.listen(port, hostname, () => {

console.log(`Server running at http://${hostname}:${port}/`); });

9 js

const express = require('express');

const bodyParser = require('body-parser');

const app = express();

const port = 3000;

// Middleware for parsing form data

app.use(bodyParser.urlencoded({ extended: true }));

// Serve static files (HTML form)

app.use(express.static('views'));

// Handle form submission

app.post('/register', (req, res) => {

const formData = req.body;

res.send(`

<h1>Registration Successful!</h1>

<p>Here is your submitted data:</p>

<ul>

<li>Full Name: ${formData.fullName}</li>

<li>Email: ${formData.email}</li>

<li>Phone: ${formData.phone}</li>

<li>Date of Birth: ${formData.dob}</li>

<li>Gender: ${formData.gender}</li>

<li>Course: ${formData.course}</li>

<li>Exam Center: ${formData.center}</li>

<li>Comments: ${formData.comments}</li>

</ul>

<a href="/form.html">Go Back</a>

`);

});

// Start the server

app.listen(port, () => {

console.log(`Server is running on http://localhost:${port}`);

});

9 html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Exam Registration</title>

</head>

<body>

<h1>Exam Registration Form</h1>

<form action="/register" method="POST">

<label for="fullName">Full Name:</label><br>

<input type="text" id="fullName" name="fullName" required><br><br>

<label for="email">Email:</label><br>

<input type="email" id="email" name="email" required><br><br>

<label for="phone">Phone Number:</label><br>

<input type="tel" id="phone" name="phone" required><br><br>

<label for="dob">Date of Birth:</label><br>

<input type="date" id="dob" name="dob" required><br><br>

<label>Gender:</label><br>

<input type="radio" id="male" name="gender" value="Male" required>

<label for="male">Male</label><br>

<input type="radio" id="female" name="gender" value="Female" required>

<label for="female">Female</label><br><br>

<label for="course">Select Course:</label><br>

<select id="course" name="course" required>

<option value="Mathematics">Mathematics</option>

<option value="Physics">Physics</option>

<option value="Chemistry">Chemistry</option>

<option value="Biology">Biology</option>

</select><br><br>

<label for="center">Preferred Exam Center:</label><br>

<input type="text" id="center" name="center" required><br><br>

<label for="comments">Comments (optional):</label><br>

<textarea id="comments" name="comments" rows="4"></textarea><br><br>

<button type="submit">Register</button>

</form>

</body>

</html>