**1. HTML5 Base Template**

**Objective:**

Set up a semantic and browser-compatible HTML base.

<!-- index.html -->

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Local Community Event Portal</title>

</head>

<body>

<!-- Navigation -->

<nav>

<!-- Navigation content goes here -->

</nav>

<!-- Main Content -->

<main>

<!-- Page-specific sections go here -->

</main>

<!-- Footer -->

<footer>

<!-- Footer content -->

</footer>

</body>

</html>

**Test:**

* Open in **Chrome**, right-click → **Inspect** → verify DOM structure.

**2. Navigation and Linking**

<nav>

<a href="#home">Home</a>

<a href="#events">Events</a>

<a href="#contact">Contact</a>

<a href="help.html" target="\_blank">Help</a>

</nav>

<section id="home">

<h1>Welcome!</h1>

</section>

<section id="events">

<h2>Events</h2>

</section>

<section id="contact">

<h2>Contact Us</h2>

</section>

**3. Welcome Message with Styling and ID/Class**

<style>

#welcomeBanner {

background-color: lightblue;

padding: 20px;

text-align: center;

}

.highlight {

background-color: yellow;

font-weight: bold;

}

</style>

<div id="welcomeBanner">

Welcome, User! <span style="color: red; font-weight: bold;">Special Offer Today!</span>

<p class="highlight">Don’t miss the community BBQ.</p>

</div>

**4. Image Gallery for Community Events**

<style>

.event-img {

border: 2px solid #ccc;

width: 150px;

height: 100px;

}

</style>

<table>

<caption>Past Community Events</caption>

<tr>

<td><img src="img1.jpg" alt="Picnic" title="Annual Picnic" class="event-img"></td>

<td><img src="img2.jpg" alt="Concert" title="Summer Concert" class="event-img"></td>

<td><img src="img3.jpg" alt="Cleanup" title="Park Cleanup" class="event-img"></td>

</tr>

<tr>

<td><img src="img4.jpg" alt="Craft Fair" title="Craft Fair" class="event-img"></td>

<td><img src="img5.jpg" alt="Workshop" title="Workshop" class="event-img"></td>

<td><img src="img6.jpg" alt="BBQ" title="Community BBQ" class="event-img"></td>

</tr>

</table>

**5. Event Registration Form**

<form onsubmit="event.preventDefault(); document.getElementById('confirmation').textContent = 'Thank you for registering!';">

<label>Name: <input type="text" placeholder="Your name" required autofocus></label><br>

<label>Email: <input type="email" placeholder="Your email" required></label><br>

<label>Date: <input type="date" required></label><br>

<label>Event Type:

<select required>

<option value="">Select</option>

<option value="concert">Concert</option>

<option value="workshop">Workshop</option>

</select>

</label><br>

<label>Message:<br>

<textarea placeholder="Any message?"></textarea>

</label><br>

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

<output id="confirmation"></output>

</form>

**6. Event Feedback with Events Handling**

<script>

function validatePhone(el) {

if (!/^\d{10}$/.test(el.value)) {

alert("Phone number must be 10 digits.");

}

}

function showFee(select) {

const fee = select.value === "concert" ? "$10" : "$5";

document.getElementById("fee").textContent = "Fee: " + fee;

}

function enlarge(img) {

img.style.transform = "scale(1.5)";

}

function countChars(el) {

document.getElementById("charCount").textContent = el.value.length + " characters";

}

</script>

<label>Phone: <input type="text" onblur="validatePhone(this)"></label><br>

<select onchange="showFee(this)">

<option value="">Choose</option>

<option value="concert">Concert</option>

<option value="workshop">Workshop</option>

</select>

<span id="fee"></span><br>

<button onclick="alert('Feedback submitted!')">Submit Feedback</button><br>

<img src="img.jpg" ondblclick="enlarge(this)" width="100"><br>

<textarea onkeyup="countChars(this)"></textarea>

<div id="charCount"></div>

**7. Video Invite with Media Events**

<video id="eventVideo" controls oncanplay="document.getElementById('videoMsg').textContent='Video ready to play!'">

<source src="invite.mp4" type="video/mp4">

Your browser does not support the video tag.

</video>

<p id="videoMsg"></p>

<script>

window.onbeforeunload = function() {

return "You have unsaved changes. Are you sure you want to leave?";

};

</script>

**8. Saving User Preferences**

<script>

window.onload = () => {

const stored = localStorage.getItem("eventType");

if (stored) document.getElementById("eventType").value = stored;

};

function savePref(select) {

localStorage.setItem("eventType", select.value);

}

function clearPrefs() {

localStorage.clear();

sessionStorage.clear();

}

</script>

<select id="eventType" onchange="savePref(this)">

<option value="">Select Event</option>

<option value="music">Music</option>

<option value="sports">Sports</option>

</select>

<button onclick="clearPrefs()">Clear Preferences</button>

**9. Geolocation for Event Mapping**

<script>

function findNearby() {

if (!navigator.geolocation) return alert("Geolocation not supported.");

navigator.geolocation.getCurrentPosition(

pos => {

const { latitude, longitude } = pos.coords;

document.getElementById("location").textContent = `Lat: ${latitude}, Lon: ${longitude}`;

},

err => {

document.getElementById("location").textContent = "Error: " + err.message;

},

{ enableHighAccuracy: true, timeout: 5000 }

);

}

</script>

<button onclick="findNearby()">Find Nearby Events</button>

<p id="location"></p>

**10. Debugging with Chrome DevTools**

**Instructions:**

* Open page → Right-click → **Inspect**
* Use **Elements** to tweak live styles
* Use **Console** for JavaScript errors and log output
* Use **Sources → Breakpoints** to debug JS line-by-line