**Smart Event Booking Portal - Full Code Documentation**

This PDF contains the complete source code for the Smart Event Booking Portal project with simple explanations. The project is built using HTML for structure, CSS for design, and JavaScript for logic and interactivity.

**HTML Code (Structure):**

This part creates the layout of the website including header, navigation, events list, booking modal, and footer.

<body>

<header>

<h1>🎉 Smart Event Booking Portal</h1>

<button id="themeToggle">🌙 Dark Mode</button>

</header>

<!-- Navigation -->

<nav>

<button onclick="showSection('home')">Home</button>

<button onclick="showSection('bookings')">My Bookings</button>

</nav>

<!-- Sections -->

<main>

<!-- Home / Events -->

<section id="home" class="active">

<h2>Available Events</h2>

<!-- Filter + Sort controls -->

<div id="filters">

<select id="filterCategory">

<option value="all">All Categories</option>

<option value="Technology">Technology</option>

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

<option value="Art">Art</option>

</select>

<select id="sortEvents">

<option value="default">Sort By</option>

<option value="date">Date</option>

<option value="price">Price</option>

</select>

</div>

<div id="eventList" class="grid">

<!-- 👇 Add your events directly in HTML -->

<div class="event" data-id="1" data-name="Tech Conference" data-category="Technology" data-date="2025-09-20" data-price="500" data-seats="50">

<img src="https://images.stockcake.com/public/2/9/2/292f8e62-8891-41bb-9d82-cf81027244bf\_large/tech-conference-speech-stockcake.jpg" alt="Tech Conference">

<h3>Tech Conference</h3>

<p>Technology | 2025-09-20</p>

<p>Price: $500 | Seats: 50</p>

<button onclick="openModal(1)">Book Now</button>

</div>

<div class="event" data-id="2" data-name="Music Festival" data-category="Music" data-date="2025-10-05" data-price="300" data-seats="100">

<img src="https://media.timeout.com/images/106204051/image.jpg" alt="Music Festival">

<h3>Music Festival</h3>

<p>Music | 2025-10-05</p>

<p>Price: $300 | Seats: 100</p>

<button onclick="openModal(2)">Book Now</button>

</div>

<div class="event" data-id="3" data-name="Art Expo" data-category="Art" data-date="2025-11-12" data-price="200" data-seats="80">

<img src="https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRscj93MU2dKn5G7oExCSkmAsvqUSv1Nq42wREV6KCoTRfjaP9K2cWEXBtdti8G4Ae6tJA&usqp=CAU" alt="Art Expo">

<h3>Art Expo</h3>

<p>Art | 2025-11-12</p>

<p>Price: $200 | Seats: 80</p>

<button onclick="openModal(3)">Book Now</button>

</div>

<div class="event" data-id="4" data-name="Holi Event" data-category="Festival" data-date="2026-03-04" data-price="200" data-seats="50">

<img src="https://image.telanganatoday.com/wp-content/uploads/2025/03/h-2\_V\_jpg--442x260-4g.webp?sw=412&dsz=442x260&iw=392&p=false&r=2.625" alt="Holi Event">

<h3>Holi Event</h3>

<p>Festival | 2026-03-04</p>

<p>Price: $200 | Seats: 50</p>

<button onclick="openModal(4)">Book Now</button>

</div>

<div class="event" data-id="5" data-name="Anirudh concert" data-category="Music" data-date="2026-04-22" data-price="400" data-seats="400">

<img src="https://media.zenfs.com/en/mmail.com.my/4680cd388bb0fb5972f21af875544b70" alt="Tech Conference">

<h3>Anirudh concert </h3>

<p>Music | 2026-04-22</p>

<p>Price: $400 | Seats: 400</p>

<button onclick="openModal(5)">Book Now</button>

</div>

</div>

</section>

<!-- Bookings -->

<section id="bookings">

<h2>My Bookings</h2>

<div id="bookingList" class="bookings-container"></div>

</section>

</main>

<!-- Booking Modal -->

<div id="bookingModal" class="modal hidden">

<div class="modal-content">

<span class="close" onclick="closeModal()">&times;</span>

<h3>Book Event</h3>

<img id="modalImage" class="modal-img" alt="Event">

<p id="modalEvent"></p>

<input type="text" id="userName" placeholder="Your Name" required>

<input type="email" id="userEmail" placeholder="Your Email" required>

<input type="tel" id="userPhone" placeholder="Your Phone" required>

<input type="number" id="ticketCount" placeholder="Tickets" min="1">

<button class="btn" onclick="confirmBooking()">Confirm Booking</button>

</div>

</div>

<footer>

<div class="footer-left">

<p id="footer-quote">"A goal without a plan is just a wish."</p>

</div>

<div class="footer-right">

<button onclick="alert('Memory View clicked!')">Memory View</button>

<button onclick="alert('Memories clicked!')">Memories</button>

<button id="footerThemeToggle" onclick="toggleTheme()">Toggle Theme</button>

</div>

<div class="footer-bottom">

© Stay Inspired. All rights reserved.

</div>

</footer>

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

</body>

**CSS Code (Design):**

This part styles the web page. It includes themes, event cards, modals, booking cards, and footer styling.



**JavaScript Code (Logic):**

This part adds functionality: opening modals, booking events, validating user inputs, saving data to localStorage, canceling bookings, theme toggle, and rotating footer quotes.

let events = [];

let bookings = JSON.parse(localStorage.getItem("bookings")) || [];

let selectedEvent = null;

// Load events directly from HTML

document.querySelectorAll(".event").forEach(div => {

events.push({

id: parseInt(div.dataset.id),

name: div.dataset.name,

category: div.dataset.category,

date: div.dataset.date,

price: parseInt(div.dataset.price),

seats: parseInt(div.dataset.seats),

image: div.querySelector("img").src

});

});

// Save to localStorage

function saveData() {

localStorage.setItem("bookings", JSON.stringify(bookings));

}

// Show section

function showSection(id) {

document.querySelectorAll("main section").forEach(s => s.classList.remove("active"));

document.getElementById(id).classList.add("active");

if (id === "bookings") renderBookings();

}

// Booking Modal

function openModal(eventId) {

selectedEvent = events.find(e => e.id === eventId);

document.getElementById("modalEvent").textContent = `${selectedEvent.name} (${selectedEvent.seats} seats left)`;

document.getElementById("modalImage").src = selectedEvent.image;

document.getElementById("bookingModal").classList.remove("hidden");

}

function closeModal() {

document.getElementById("bookingModal").classList.add("hidden");

}

function confirmBooking() {

let name = document.getElementById("userName").value.trim();

let email = document.getElementById("userEmail").value.trim();

let phone = document.getElementById("userPhone").value.trim();

let count = parseInt(document.getElementById("ticketCount").value);

// Email regex (basic official format: user@domain.com)

const emailPattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;

// Phone regex (10-digit number, allows country code +91 etc.)

const phonePattern = /^(\+?\d{1,3}[- ]?)?\d{10}$/;

// Validate fields

if (!name) return alert("Please enter your name.");

if (!emailPattern.test(email)) return alert("Enter a valid email address (e.g., user@example.com).");

if (!phonePattern.test(phone)) return alert("Enter a valid phone number (10 digits, optional country code).");

if (isNaN(count) || count <= 0) return alert("Enter a valid number of tickets.");

if (count > selectedEvent.seats) return alert("Not enough seats!");

// Save booking

selectedEvent.seats -= count;

bookings.push({

eventId: selectedEvent.id,

name,

email,

phone,

tickets: count

});

saveData();

closeModal();

renderBookings();

updateSeatsOnHome();

}

// Render bookings like event cards with collapsible details

function renderBookings() {

let list = document.getElementById("bookingList");

list.innerHTML = "";

bookings.forEach((b, i) => {

let ev = events.find(e => e.id === b.eventId);

let div = document.createElement("div");

div.className = "booking-card";

div.innerHTML = `

<img src="${ev.image}" alt="${ev.name}">

<h3>${ev.name}</h3>

<div class="booking-details">

<p>🎟️ ${b.tickets} tickets booked by ${b.name}</p>

<p>📧 ${b.email}</p>

<p>📞 ${b.phone}</p>

<button onclick="cancelBooking(${i})">Cancel</button>

</div>

`;

// Toggle collapsible on click

div.addEventListener("click", function(e) {

// prevent button clicks from toggling

if (e.target.tagName.toLowerCase() === "button") return;

let details = this.querySelector(".booking-details");

details.classList.toggle("active");

});

list.appendChild(div);

});

}

function cancelBooking(index) {

let booking = bookings[index];

let ev = events.find(e => e.id === booking.eventId);

// Find the card element

const list = document.getElementById("bookingList");

const card = list.children[index];

// Animate card out

card.classList.add("removing");

// After animation ends, update data + UI

setTimeout(() => {

ev.seats += booking.tickets;

bookings.splice(index, 1);

saveData();

renderBookings();

updateSeatsOnHome();

}, 600); // matches transition duration

}

// Update seat counts on Home page

function updateSeatsOnHome() {

events.forEach(ev => {

let card = document.querySelector(`.event[data-id="${ev.id}"]`);

if (card) {

card.querySelector("p:nth-of-type(2)").textContent = `Price: $${ev.price} | Seats: ${ev.seats}`;

}

});

}

// Footer Quotes with fade effect

const quotes = [

'"A goal without a plan is just a wish."',

'"Success is not final, failure is not fatal: It is the courage to continue that counts."',

'"Do something today that your future self will thank you for."',

'"Dream big, start small, act now."',

'"Innovation distinguishes between a leader and a follower."'

];

let quoteIndex = 0;

function changeQuote() {

const footerQuote = document.getElementById("footer-quote");

// Fade out

footerQuote.classList.add("fade-out");

setTimeout(() => {

// Change text while hidden

quoteIndex = (quoteIndex + 1) % quotes.length;

footerQuote.textContent = quotes[quoteIndex];

// Fade back in

footerQuote.classList.remove("fade-out");

}, 1000); // matches transition time in CSS

}

setInterval(changeQuote, 5000); // change every 5 second

// Theme toggle (sync with footer button)

function toggleTheme() {

document.body.classList.toggle("dark");

let mode = document.body.classList.contains("dark") ? "dark" : "light";

localStorage.setItem("theme", mode);

document.getElementById("themeToggle").textContent = mode === "dark" ? "☀️ Light Mode" : "🌙 Dark Mode";

document.getElementById("footerThemeToggle").textContent = "Toggle Theme";

}

// Theme toggle

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

if (localStorage.getItem("theme") === "dark") {

document.body.classList.add("dark");

themeToggle.textContent = "☀️ Light Mode";

}

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

document.body.classList.toggle("dark");

let mode = document.body.classList.contains("dark") ? "dark" : "light";

localStorage.setItem("theme", mode);

themeToggle.textContent = mode === "dark" ? "☀️ Light Mode" : "🌙 Dark Mode";

});

**Conclusion:**

The Smart Event Booking Portal demonstrates how to combine HTML, CSS, and JavaScript to build a functional, interactive project. It includes event booking, seat tracking, form validation, responsive design, and localStorage persistence — all without a backend.