

Project Title: Event Management Application

Description:

This application implements a yoga class reservation system. It allows organisers to create and manage yoga classes, while participants can register for available sessions. Several features have been introduced to streamline event creation and attendee registration processes.

1. Website Architecture



Diagram:

Frontend (Client):

Built using HTML, CSS, and EJS for server-side rendering.

Navigation and forms for user interactions.

Backend (Server):

Express.js routes for handling requests and managing business logic.

APIs for endpoints like /organiser, /attendee, and /organiser/settings.

Database:

SQLite for persistent storage of events, bookings, and site settings.

Interacts with the backend for CRUD operations.

Endpoints:

/organiser: Manage events (draft, publish, delete).

/attendee: View and book events.

/organiser/settings: Update site settings.

2. Data Model

Diagram:

Tables:

users: Stores attendee details.

events: Stores event information (title, description, tickets, state).

bookings: Stores booking details (attendee name, ticket count, event ID).

site_settings: Stores site-level information (name, description).

Relationships:

users (1) → bookings (N)

events (1) → bookings (N)

site_settings: A single-row configuration table.

3. Extension Description

Extension Name: Remaining Ticket Count and Enhanced Booking System

Implementation Details:

This extension introduces features to:

1. Display the remaining ticket count for both organisers and attendees.
2. Dynamically update the ticket count after bookings are made.

Steps Taken:

1. Database Changes:
 - Added full_price_tickets and concession_tickets fields to the events table.
 - Booked tickets are subtracted from the total count during the booking process.
2. Frontend Modifications:
 - Organiser Home Page: Displays the total and remaining ticket count for each event.
 - Attendee Event Page: Allows users to book tickets only within the available ticket limit.
3. Backend Logic:
 - Updated /book route to handle ticket count validation and reduction.
 - Updated /add-event and /edit-event routes to manage ticket fields.

Highlighted Code:

Backend - Ticket Booking Logic

File: routes/attendee.js

Lines: 35-55

Frontend - Event Ticket Display

File: views/attendee_event.ejs