Dhirubhai Ambani University Technology

Formerly DA-IICT

IT644 - Web Services & SOA Group Project

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EventHub
Week 4 : Summary Of Tasks

1. Attendee and Organizer CRUD API

Tasks:

● Implement Attendee CRUD endpoints (Create, Read, Update, Delete)

● Implement Organizer CRUD endpoints (Create, Read, Update, Delete)

● Add input validation, schema rules, and complete error-handling

● Integrate JWT-based authentication and role-based authorization

● Write unit tests for Attendee and Organizer API modules

● Document all endpoints using Swagger/Postman

2. Ticket Booking API

Tasks:

● Implement ticket booking creation logic linking attendee, organizer, and event

● Implement ticket booking status updates: confirmed, cancelled, refunded

● Implement retrieval endpoints (attendee bookings / organizer event bookings)

● Add validation for seat limits, duplicate booking prevention, and invalid input

● Write test cases covering complete ticket-booking flow

● Update Postman documentation with ticket booking endpoints

3. Event Listing API

Tasks:

● Implement APIs to add, edit, and delete events by organizer

● Implement API to fetch all events (public endpoint)

● Add filters for category, location, date, popularity, and price

● Implement search feature for events (title, category, location)

● Add pagination for large event lists

● Write unit tests for event-listing module

● Document all event-related endpoints

4. Review and Rating System

Tasks:

● Implement API to submit reviews and ratings for events and organizers

● Implement API to fetch event reviews and compute average rating

● Add validation to prevent duplicate reviews by the same attendee

● Write test cases for review and rating APIs

● Document review and rating APIs

5. Cloudinary Media Management

Tasks:

● Setup Cloudinary integration for event banners, gallery images, and organizer profile images

● Implement endpoint for event banner upload

● Implement image update and delete functionality

● Store Cloudinary URLs inside the Event and Organizer collections

● Validate image size, type, and format

● Write unit tests for media upload and delete APIs

● Document all media-management endpoints

6. Common and Shared Tasks

Tasks:

● Configure environment variables for API keys, DB URLs, and service credentials

● Setup centralized error-handling middleware and unified API response format

● Implement request logging using Winston/Morgan

● Conduct integration testing across Attendee, Organizer, Event, Ticket, and Review modules

● Deploy backend to staging environment (Render / Vercel / AWS)

Roadblocks

● **Cloudinary Integration Errors:**
Encountered issues due to incorrect environment variable configuration and Cloudinary authentication mismatch.

● **Inter-module API Dependencies:**
Ticket booking was dependent on completion of Event and Attendee modules, causing delays in integration and testing.

● **Complex Validation Rules:**
Additional time required to implement advanced validation such as seat limits, duplicate booking prevention, and organizer restrictions.

● **Auth Middleware Conflicts:**
Initial authentication middleware blocked public event-browsing APIs. Required restructuring of public vs protected routes.

Upcoming Tasks

- Attendee Frontend Integration
- Organizer Dashboard Integration
- Admin Panel Integration
- Payment Gateway Integration (Razorpay) & Commission Calculation
- Mobile Responsiveness and UI Cleanup