

EventHub: Requirements Specification Document

A comprehensive web service solution for event organizers, attendees, and administrators with secure payment processing, responsive design, and real-time analytics.



Functional Requirements: User Roles

1

Organizers

- Create, update, and delete events with complete details.
- Define ticket categories (Free, Paid, VIP, Early Bird).
- Manage ticket sales and revenue reports.
- Track attendee registrations and analytics.

2

Attendees

- Search and filter events by city, date, category, price.
- View event details and purchase tickets securely.
- Receive email confirmations.
- Save events to wishlist and post reviews.

3

Administrators

- Manage users (attendees, organizers).
- Approve or reject events before publishing.
- View platform-wide analytics.
- Send system notifications/alerts.

Non-Functional Requirements



Performance

Handle 100+ concurrent users and global expansion.



Security

Secure payment gateway, role-based access, encrypted data storage.



Usability

Responsive UI for mobile and desktop with simple navigation.



Reliability

99.9% uptime on cloud hosting (AWS/Azure/GCP).



Maintainability

Modular codebase with RESTful APIs for easy updates.

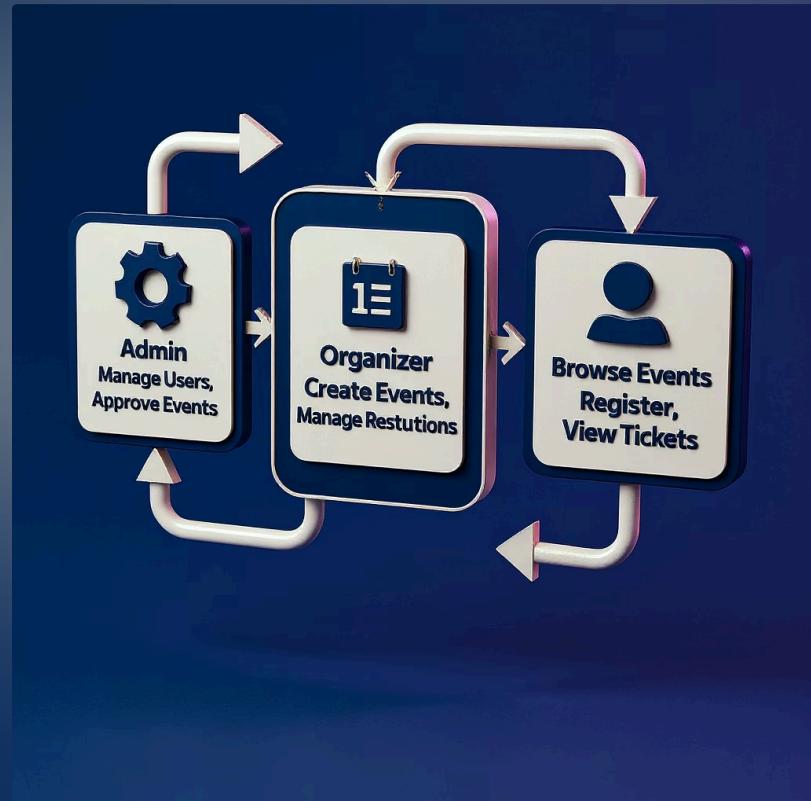


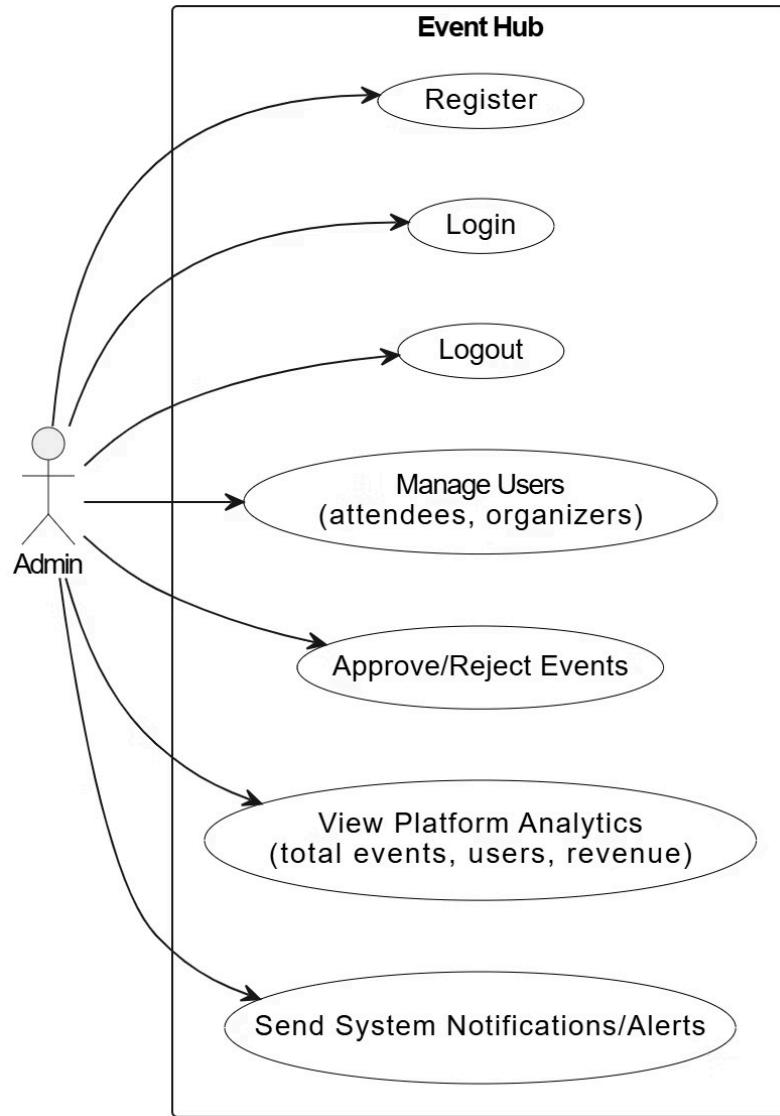
Compliance

GDPR-compliant data handling and privacy controls.

Use Case Diagram: System Overview

The system supports three primary user roles with distinct permissions and capabilities, ensuring proper separation of concerns and security.





Admin Use Cases

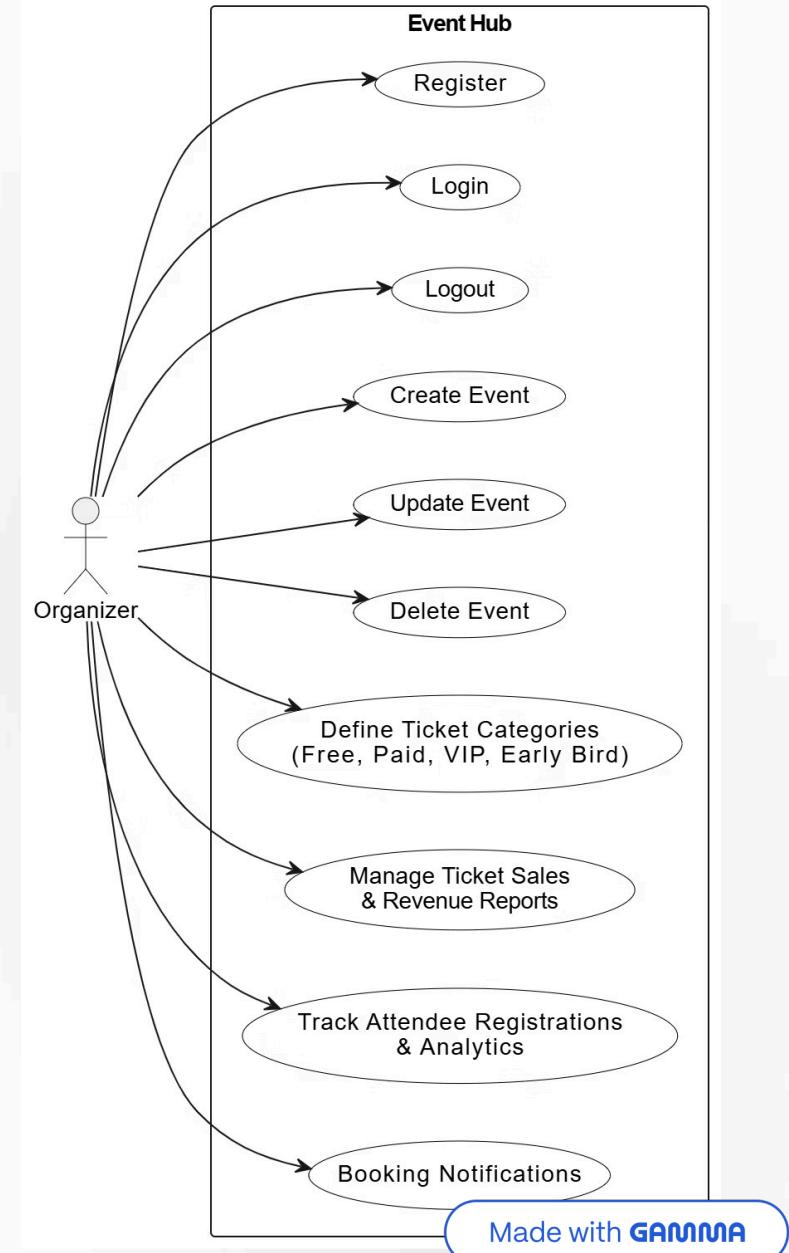
Admin users have platform-wide control capabilities including user management, event approval workflows, and system-level analytics access.

- The admin role requires the highest level of security clearance as it has access to sensitive user data and payment information.

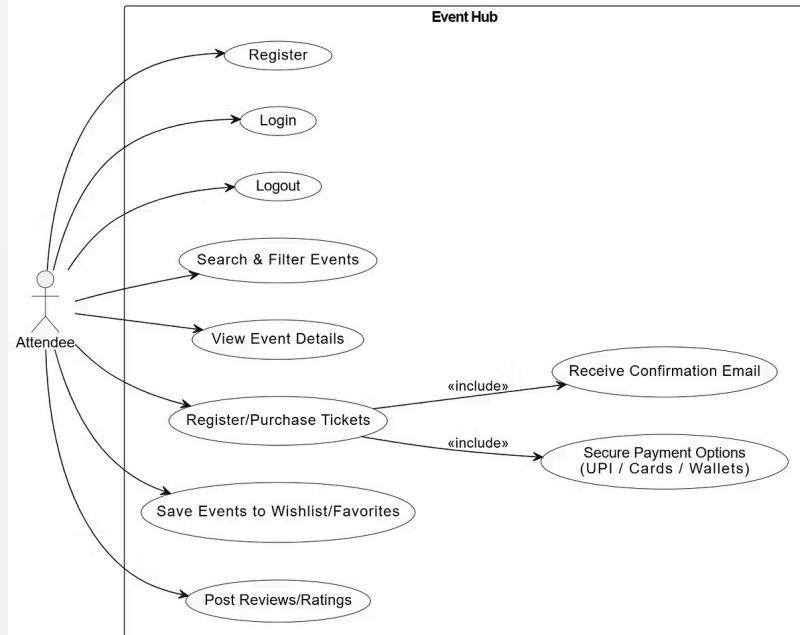
Organizer UseCases

Organizer Capabilities:

- Create and manage events
- Define ticket categories
- Track sales and registrations
- Access analytics dashboards
- Receive booking notifications



Attendees UseCases



Attendees Use Cases focus on:

- Event Discovery
- Save Events to Wishlist / Favorites
- Ticket Purchasing and Make Payment
- Receive Confirmation Email
- Post-event Engagement

Interface Requirements

Web Interfaces

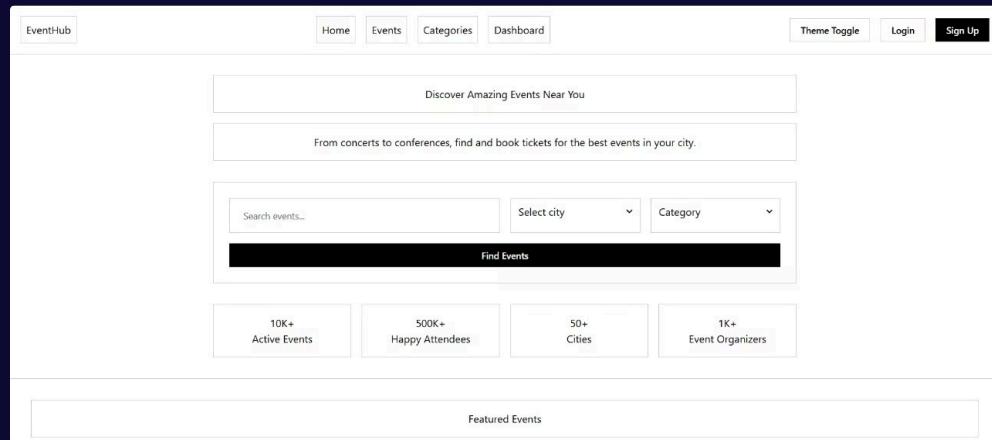
- Organizer Dashboard for event creation and analytics.
- Attendee Dashboard for booked/saved events and ticket downloads.
- Admin Panel for user & event management and reports.

Third-Party Integrations

- Payment processing via Razorpay / PayPal.
- Email notification system.
- Google Maps API for event locations.

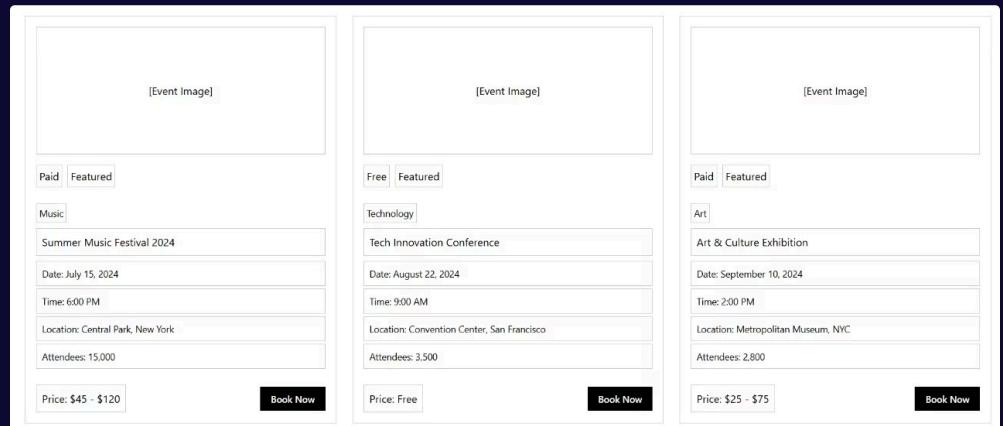


Wireframes



The Home Page wireframe features a header with 'EventHub' and navigation links for 'Home', 'Events', 'Categories', and 'Dashboard'. It includes a 'Theme Toggle', 'Login', and 'Sign Up' button. Below the header is a search bar with placeholder text 'Discover Amazing Events Near You' and a descriptive message: 'From concerts to conferences, find and book tickets for the best events in your city.' A search interface with 'Search events...', 'Select city', and 'Category' dropdowns, and a 'Find Events' button follows. At the bottom, four stats boxes show: '10K+ Active Events', '500K+ Happy Attendees', '50+ Cities', and '1K+ Event Organizers'. A 'Featured Events' section is at the very bottom.

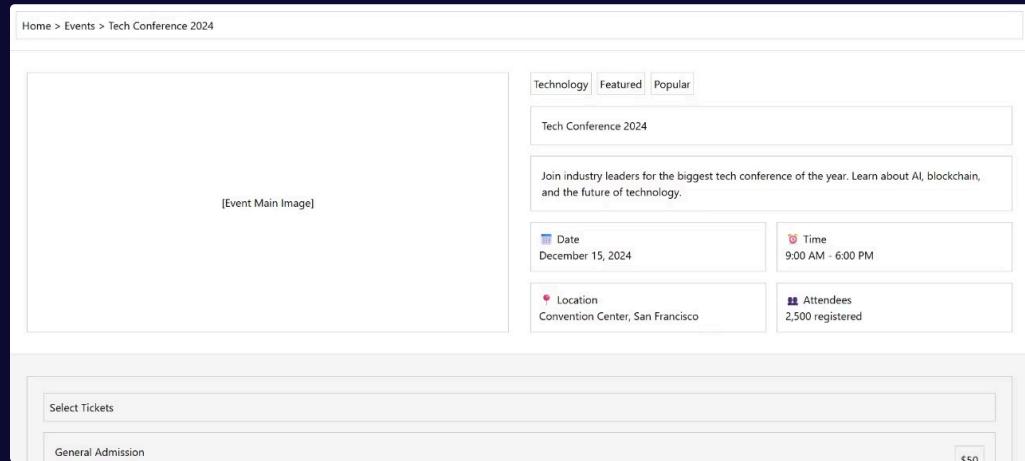
Home Page



The All Events Page wireframe displays three event cards. Each card has a placeholder '[Event Image]' and two tabs: 'Paid' and 'Featured'. The first card (Music) lists: 'Summer Music Festival 2024', 'Date: July 15, 2024', 'Time: 6:00 PM', 'Location: Central Park, New York', and 'Attendees: 15,000'. It also shows a price range '\$45 - \$120' and a 'Book Now' button. The second card (Technology) lists: 'Tech Innovation Conference', 'Date: August 22, 2024', 'Time: 9:00 AM', 'Location: Convention Center, San Francisco', and 'Attendees: 3,500'. It shows a 'Free' price and a 'Book Now' button. The third card (Art) lists: 'Art & Culture Exhibition', 'Date: September 10, 2024', 'Time: 2:00 PM', 'Location: Metropolitan Museum, NYC', and 'Attendees: 2,800'. It shows a price range '\$25 - \$75' and a 'Book Now' button.

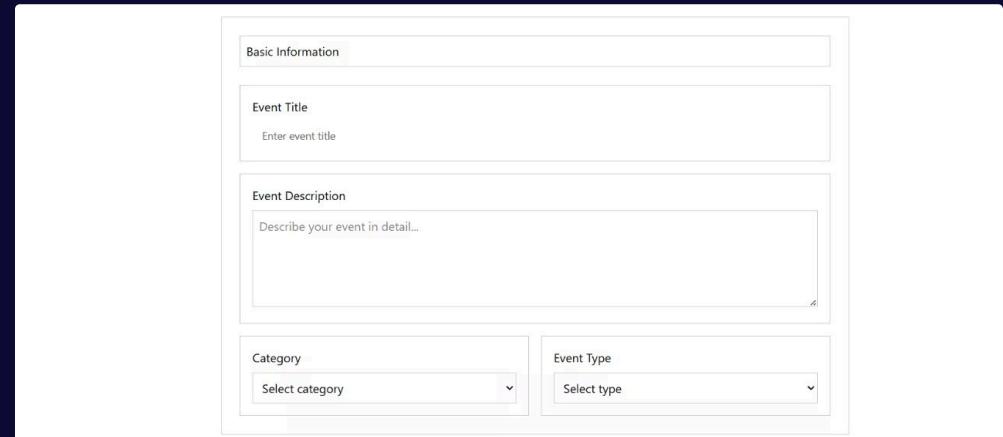
All Events Page

Wireframes



This wireframe shows the layout of an event details page. At the top, there's a breadcrumb navigation: Home > Events > Tech Conference 2024. Below the header, there's a large placeholder for the 'Event Main Image'. To the right of the image, there are three tabs: Technology, Featured, and Popular. Underneath the tabs, the event title 'Tech Conference 2024' is displayed. A descriptive paragraph follows, encouraging users to join industry leaders for the biggest tech conference of the year. Below the text, there are two boxes: one for 'Date' (December 15, 2024) and one for 'Time' (9:00 AM - 6:00 PM). Another two boxes show 'Location' (Convention Center, San Francisco) and 'Attendees' (2,500 registered). At the bottom of the main content area, there's a section for 'Select Tickets' with a 'General Admission' option and a price of '\$50'.

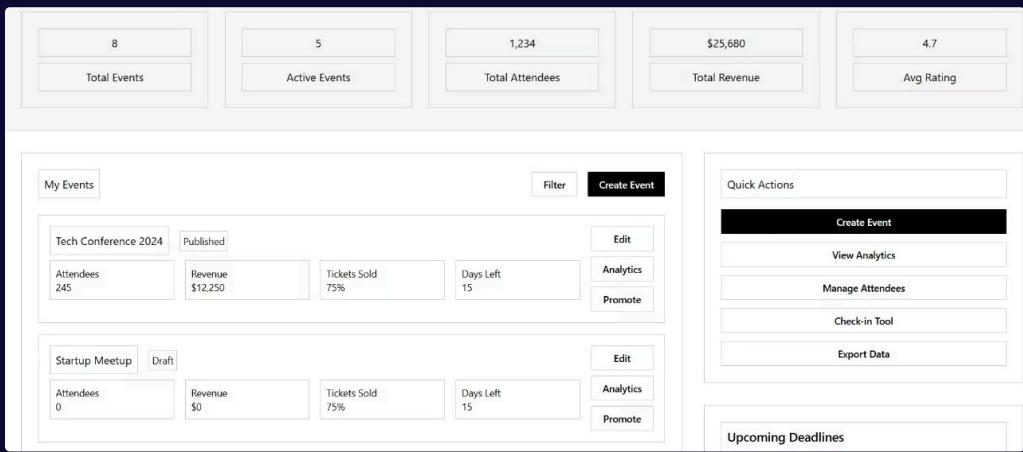
Event Details Page



This wireframe represents the form fields for creating a new event. It starts with a 'Basic Information' section. The first field is 'Event Title', which has a placeholder 'Enter event title'. Below it is 'Event Description' with a placeholder 'Describe your event in detail...'. Further down, there are two dropdown menus: 'Category' with a placeholder 'Select category' and 'Event Type' with a placeholder 'Select type'.

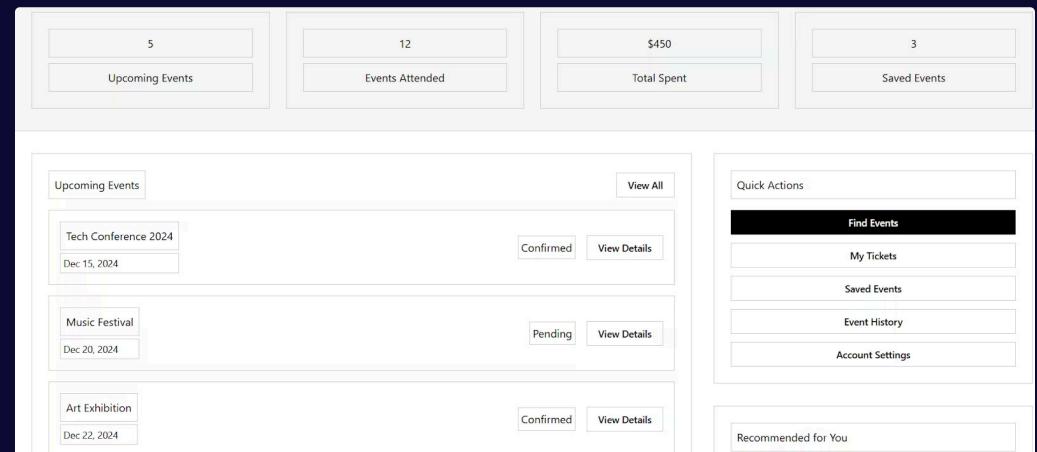
Create Event Page

Wireframes



This wireframe shows the Organizers Dashboard Page. It features a top row with five summary cards: 'Total Events' (8), 'Active Events' (5), 'Total Attendees' (1,234), 'Total Revenue' (\$25,680), and 'Avg Rating' (4.7). Below this is a section titled 'My Events' containing two event cards: 'Tech Conference 2024' (Attendees 245, Revenue \$12,250) and 'Startup Meetup' (Attendees 0, Revenue \$0). Each card includes 'Edit', 'Analytics', and 'Promote' buttons. To the right is a 'Quick Actions' sidebar with 'Create Event' as the primary action, followed by 'View Analytics', 'Manage Attendees', 'Check-in Tool', and 'Export Data'. At the bottom is a 'Upcoming Deadlines' section.

Organizers Dashboard Page



This wireframe shows the Users Dashboard Page. It features a top row with four summary cards: 'Upcoming Events' (5), 'Events Attended' (12), 'Total Spent' (\$450), and 'Saved Events' (3). Below this is a 'Upcoming Events' section listing three events: 'Tech Conference 2024' (Dec 15, 2024, status: Confirmed), 'Music Festival' (Dec 20, 2024, status: Pending), and 'Art Exhibition' (Dec 22, 2024, status: Confirmed). Each event card has 'View Details' and 'View All' buttons. To the right is a 'Quick Actions' sidebar with 'Find Events' as the primary action, followed by 'My Tickets', 'Saved Events', 'Event History', and 'Account Settings'. At the bottom is a 'Recommended for You' section.

Users Dashboard Page

Acceptance Criteria

- Event creation must allow **adding all essential details** (name, banner, ticket types, date, location).
- Attendees must be able to **book tickets and receive confirmation.**
- Secure **online payments must be processed without data leaks.**
- Organizers must be able to **view sales analytics** with ticket count and revenue breakdown.
- Admin must have ability to **approve/reject events** before publishing.
- System must support **multi-device responsive UI** (desktop, tablet, mobile).

Project Team

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Thank You