

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.



Reliability

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



Maintainability

Modular codebase with RESTful APIs for easy updates.



Security

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



Usability

Responsive UI for mobile and desktop with simple navigation.



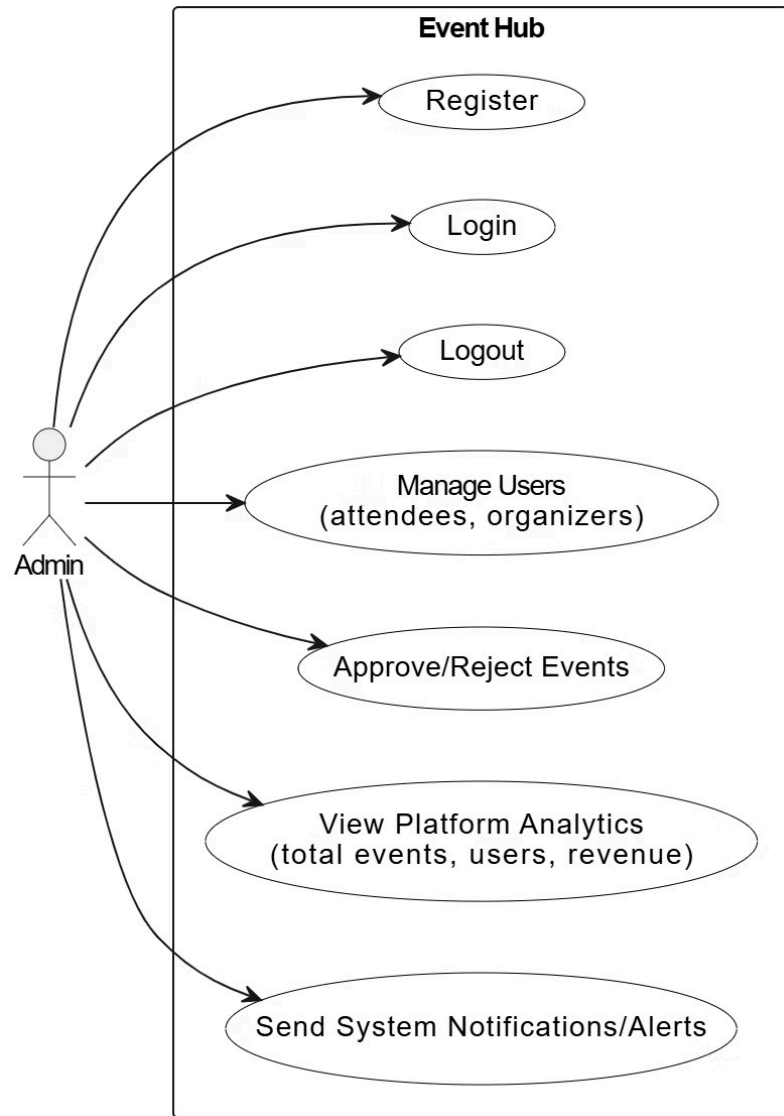
Compliance

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

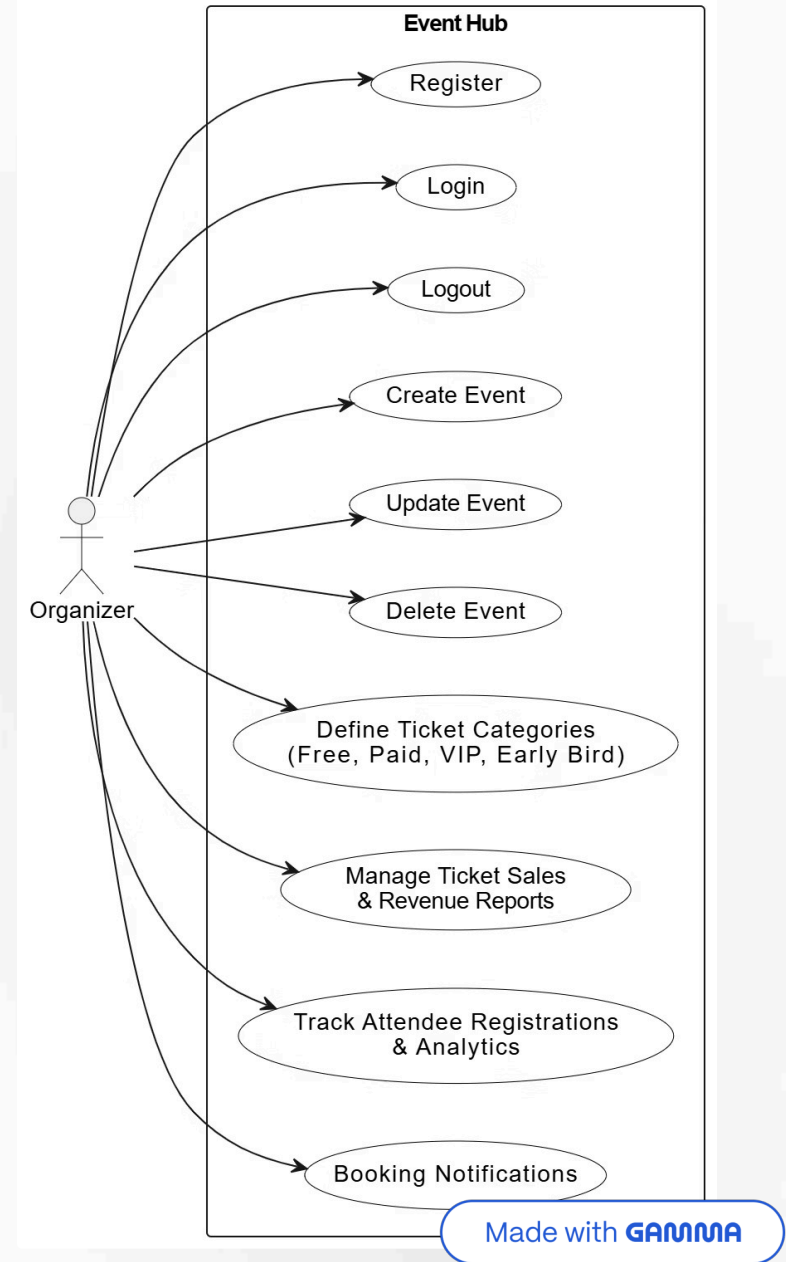
Admin users have platform-wide control capabilities including user management, event approval workflows, and system-level analytics access.

- ❏ 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:

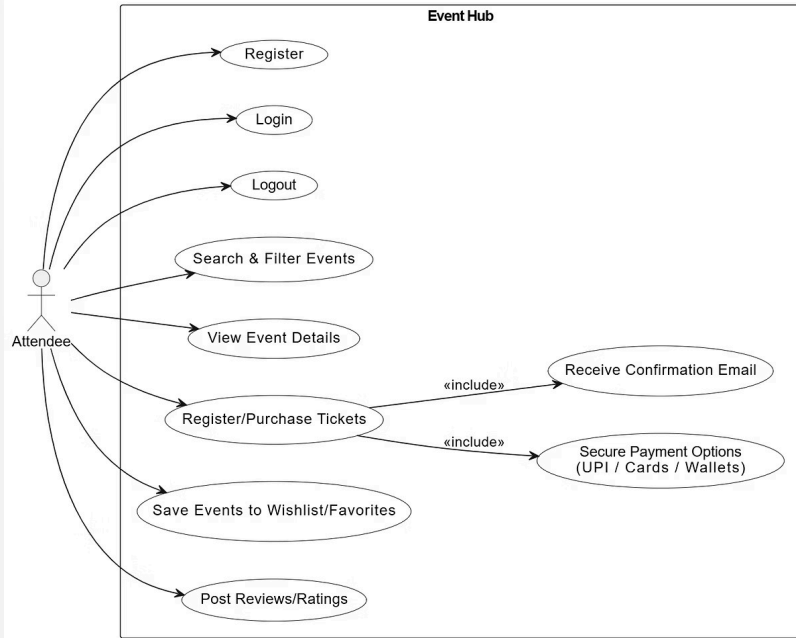
- Create and manage events
- Define ticket categories
- Track sales and registrations
- Access analytics dashboards
- Receive booking notifications



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

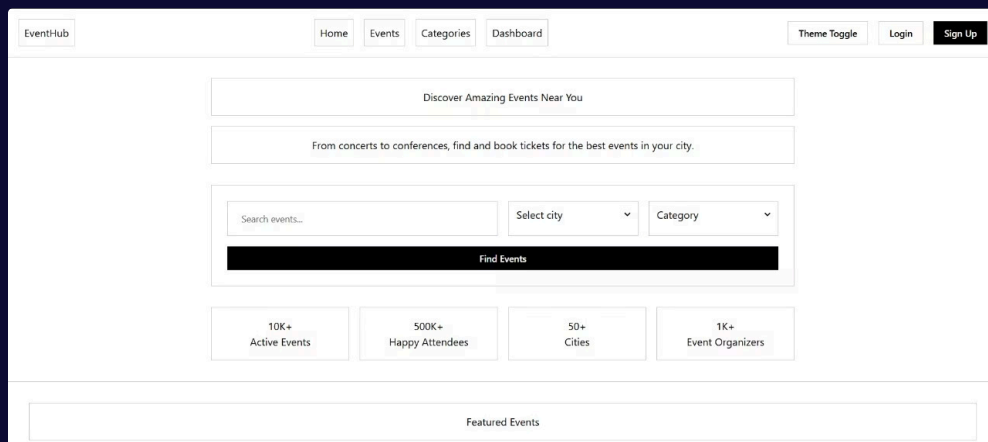
- Organizer Dashboard for event creation and analytics.
- Attendee Dashboard for booked/saved events and ticket downloads.
- Admin Panel for user & event management and reports.

Third-Party Integrations

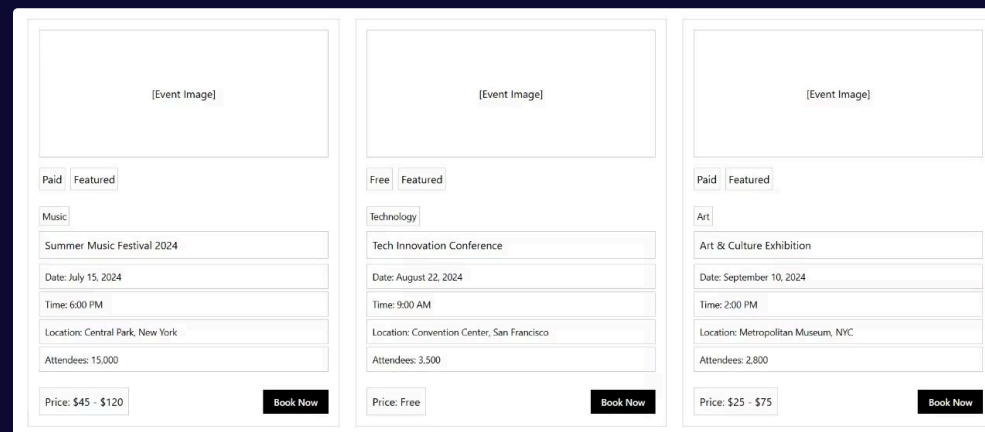
- Payment processing via Razorpay / PayPal.
- Email notification system.
- Google Maps API for event locations.



Wireframes

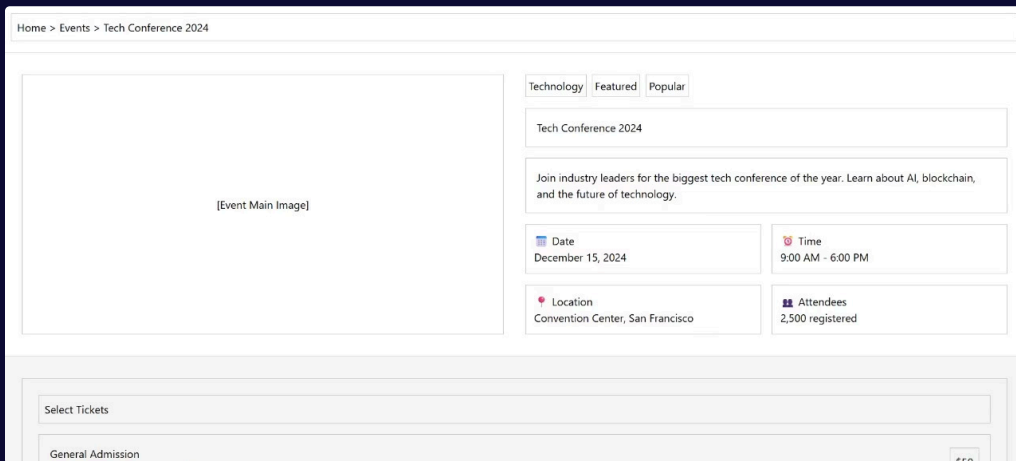


Home Page

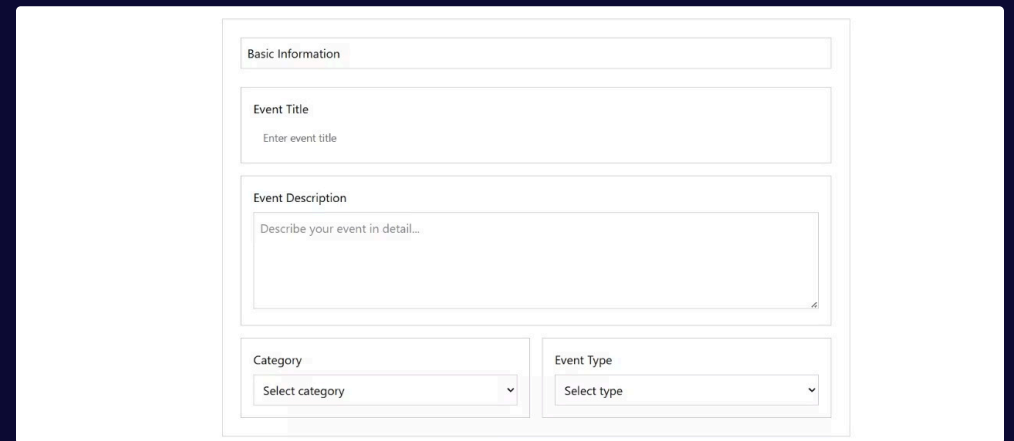


All Events Page

Wireframes

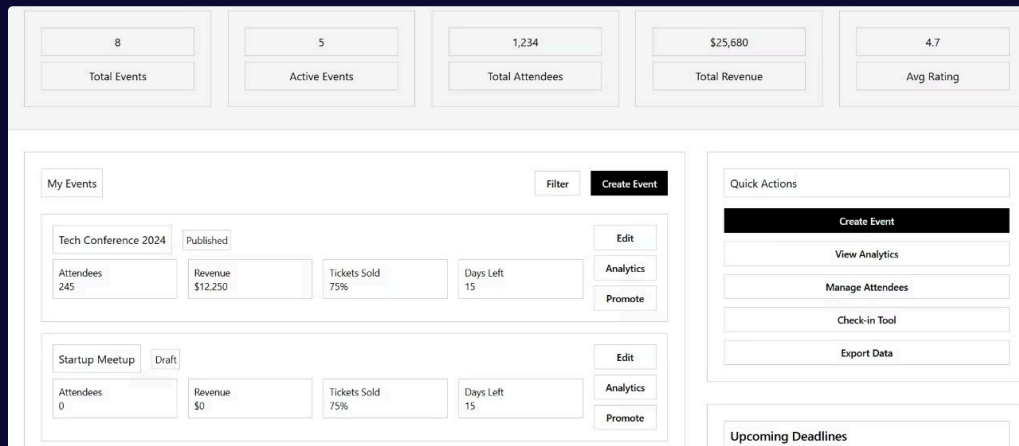


Event Details Page

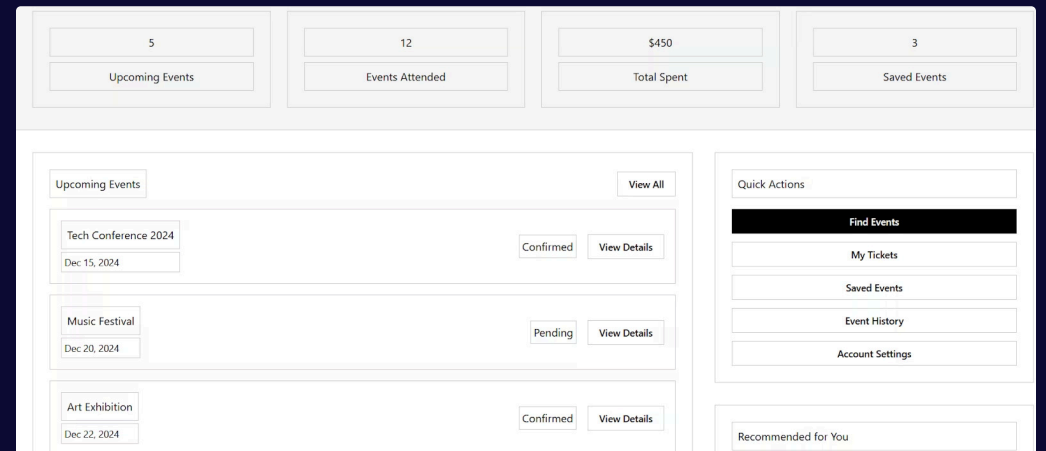


Create Event Page

Wireframes



Organizers Dashboard Page



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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Team Members

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Thank You