

Event Management & Booking Platform

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1. Executive Summary

Next Software Development Company proposes the design and development of a **comprehensive Event Management & Booking Platform** that empowers organizations and users to seamlessly create, discover, and manage events.

The solution includes a **responsive web platform, mobile applications, multi-organization management, and AI-powered virtual assistant**, enabling a complete digital ecosystem for modern event management.

2. Project Objectives

- Deliver a **scalable and secure platform** for events, courses, and services.
- Enable **organizers** to create and manage events efficiently.
- Provide **users** with a seamless event discovery and booking experience.
- Offer **administrators** full control through advanced dashboards and analytics.
- Support **white-label deployment** for multiple organizations under a SaaS model.

3. Core Modules & Features

1. Responsive Web Platform

- Fully responsive design optimized for desktop, tablet, and touch-screen devices.
- Public event discovery, registration, and booking system.
- SEO-optimized pages for event visibility.

2. Mobile Applications (Android & iOS)

- Native or hybrid apps built using **React Native / Flutter**.
- Real-time synchronization with web backend (via REST or GraphQL API).
- Push notifications for event updates and reminders.

3. Event, Course & Service Management

- Create, edit, publish, and categorize events or services.
- Manage seat/ticket availability in real-time.
- Integrated booking and **secure payment processing**.
- Automated email/SMS confirmations and reminders.

4. User Roles & Dashboards

- **Administrator:** Full control over all organizations and settings.
- **Organizer:** Create and manage events, monitor registrations, and generate reports.
- **User:** Discover, book, and attend events with ease.

5. White-Label & Multi-Organization Architecture

- Independent admin panel for each organization.
- Custom branding (domain, colors, logos).

- **Multi-tenant SaaS architecture** ensuring scalability and isolation between tenants.

6. Digital Ticketing & QR Verification

- Auto-generated **digital tickets** with unique **QR codes**.
- Real-time **attendance verification** through mobile app or kiosk scanner.
- Offline validation option for limited network environments.

7. AI Assistant (GPT-Style Chatbot)

- Integrated **AI-powered assistant** for event discovery, FAQs, and support.
- Built using **OpenAI API** or **LangChain** with vector database for contextual memory.
- Personalized responses based on user behavior and preferences.

8. Payment Integration

- Seamless checkout with **Stripe, PayPal, Apple Pay, and Google Pay**.
- Multi-currency support and automated invoice generation.

9. Data Privacy & Security

- Fully **GDPR-compliant** data management.
- **End-to-end encryption** for sensitive data and transactions.
- Secure authentication with OAuth 2.0 / JWT tokens.

4. Technology Stack

Category	Proposed Technologies
Frontend	React.js / Next.js, Tailwind CSS
Mobile Apps	React Native / Flutter
Backend	Node.js / NestJS (with Express)
Database	MongoDB / PostgreSQL
AI Integration	OpenAI API / LangChain + Pinecone
Payment	Stripe, PayPal, Apple Pay, Google Pay
Hosting	AWS / Azure / Vercel
Authentication	JWT / OAuth 2.0
CI/CD	GitHub Actions / Docker / Kubernetes

5. Revised Project Timeline (12–14 Weeks)

Phase	Duration	Deliverables
1. Requirement Analysis & UI/UX Design	2 weeks	Finalized requirements, wireframes, and UI mockups
2. Backend & Database Setup	2 weeks	Database schema, core APIs, user authentication
3. Web Platform Development	3 weeks	Responsive web portal with core event features
4. Mobile Application Development (React Native)	3 weeks	Android & iOS apps synced with backend
5. AI Assistant Integration	1 week	GPT-style chatbot integrated and trained
6. Payment Integration & Security Setup	1 week	Stripe/PayPal integration and encryption setup
7. Testing & Quality Assurance (QA)	1.5 weeks	Functional, usability, and security testing
8. Deployment & Handover	0.5 week	Production deployment and client training

6. Cost Estimation (MVP – Within Rs 250,000 PKR):

Module / Component	Estimated Cost (PKR)	Remarks / Scope
Web Platform Development	Rs 70,000	Core responsive event booking web app
Mobile App (React Native)	Rs 50,000	Basic Android app version (iOS optional later)
Backend & Database Setup	Rs 40,000	Node.js + MongoDB + authentication
UI/UX Design	Rs 25,000	Simple, modern interface (Figma or similar)
Payment & Security Setup	Rs 20,000	Stripe/PayPal sandbox integration
QA, Testing, and Deployment	Rs 20,000	Manual testing + deployment on hosting
AI Chatbot (Optional / Basic)	Rs 25,000	Basic OpenAI chatbot (optional)
Total Estimated Project Cost	Rs 250,000 PKR	Approx. \$900 USD

7. Development Approach

- Each module will be delivered **iteratively** with milestone reviews.

- Payments can be made **per milestone** (e.g., 20% upfront, 40% mid-project, 40% on completion).
- All source code and documentation will be handed over upon project completion.

8. Maintenance & Support

- 3-Month free technical support post-deployment.
- Optional **Annual Maintenance Contract (AMC)** for ongoing updates and feature improvements.

9. Why Choose Next Software Development Company

- Proven expertise in **full-stack development** and **SaaS architecture**.
- **Agile project management** ensuring transparency and timely delivery.
- Focus on **scalability, performance, and user experience**.
- Dedicated **post-launch support** and continuous innovation.

10. Conclusion

This proposal outlines a robust, future-ready event management ecosystem combining web, mobile, and AI technologies. With Next Software Development Company's proven development standards, this platform will offer users a seamless experience and organizations a scalable solution for managing their events efficiently.

Note:

All third-party APIs, such as payment gateways, AI APIs (e.g., OpenAI), or external service APIs, will be purchased and provided by the client.

The development team will handle the integration and configuration only.