Project Title

Event Management Web Application

Name of the Student:

Title of the Project: Development of an Event Management Web Application using MERN Stack & MongoDB

Name and Contact info of the Company You Associated with:

Abstract of the Project

This project aims to develop a full-stack Event Management Web Application using the MERN Stack (MongoDB, Express.js, React.js, Node.js). The system allows users to browse, register for, and manage events through a user-friendly web interface. Event organizers can create and manage events, track attendees, and send updates. The application improves accessibility, reduces manual coordination, and ensures efficient event handling.

Functional Components of the Project

A user should be able to:

1. Register and log in securely using email or phone.

2. Browse and search events by category, location, or date.

3. View detailed event information including venue, timing, pricing, and organizer details.

4. Register or book tickets for events.

5. Make online payments for paid events.

6. Receive booking confirmation through email or SMS.

7. View booking history including upcoming and past events.

8. Cancel event bookings if permitted by the organizer.

9. Update profile and personal details.

An organizer/admin should be able to:

10. Create, edit, and delete events.

11. Manage event categories, locations, and schedules.

12. View and manage attendee lists.

13. Approve or reject registrations where applicable.

14. Send notifications and updates to registered users.

15. Access dashboard analytics for events and revenue.

Software Requirement Specification (SRS)

No.	Requirement	Essential / Desirable	Description of the Requirement	Remarks
RS1	User Registration & Login	Essential	Secure user registration and login using encrypted credentials.	Password encryption required
RS2	Event Browsing & Search	Essential	Users can browse and search events using filters and keywords.	Fast search response
RS3	Event Details View	Essential	Displays full event information including venue, time, price, and organizer.	Read-only
RS4	Ticket Booking	Essential	Users can book events with auto-generated Booking ID.	Unique ID
RS5	Payment Gateway Integration	Essential	Supports secure online payments for paid events.	Secure APIs
RS6	Booking Notifications	Desirable	Email/SMS notifications for booking and cancellation.	OTP supported
RS7	Booking Cancellation	Essential	Allows cancellation	Policy enforced

			based on organizer rules.	
RS8	User Dashboard	Essential	Users can view booking history and manage profiles.	Booking status shown
RS9	Organizer/Admin Login	Essential	Secure login for organizers to manage events and users.	Authorized access
RS10	Event Management	Essential	Organizers can create, update, and delete events.	CRUD operations
RS11	Attendee Management	Essential	View and manage attendee lists for events.	Export allowed
RS12	Review & Feedback	Desirable	Users can submit feedback for events.	Moderated

Assumptions

No.	Assumption
AS1	Users have a valid email address or mobile number.
AS2	Internet connectivity is available to access the application.
AS3	Event details provided by organizers are accurate.
AS4	Payment gateway services are operational.
AS5	Users provide correct booking information.

AS6	Organizers have basic technical knowledge.
AS7	Event IDs and Booking IDs are system-generated and unique.
AS8	System time is accurate for scheduling and booking rules.