

# Smart Event Booking System

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A modern, full-stack MERN (MySQL) event booking platform with real-time seat availability, QR tickets, animations, and PWA support.

🔗 **Live Link:** <https://event-booking-app.vercel.app>

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## Tech Stack

- **Frontend:** React.js, Tailwind CSS, Framer Motion, React Router, Socket.io-client
  - **Backend:** Node.js, Express.js, Socket.io, MySQL2
  - **Database:** MySQL (AlwaysData)
  - **Deployment:**
    - Frontend → Vercel
    - Backend → Render
    - Database → AlwaysData
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## Project Structure

```
event-booking/
├── frontend/           # React app
├── backend/            # Node.js + Express + APIs
├── event_booking.sql/  # SQL schema & seed files
└── Documentation(ReadMe) # Documentation
```

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## Clone & Setup

### 1. Clone Repo

```
git clone https://github.com/shibbu04/EventBook.git
cd EventBook
```

### 2. Database (AlwaysData or Local MySQL)

```
-- If local MySQL
CREATE DATABASE event_booking;
-- Import schema
mysql -u root -p event_booking < database/event_booking.sql
```

AND

```
-- Open Terminal ( Run this Script to create temporary admin and users to login)

```bash
cd backend
npm install
node scripts/createAdmin.js
```

### 3. Backend Setup

```
cd backend
npm install
cp .env.example .env    # update DB + frontend URL
npm run dev
```

Runs on → <http://localhost:5000>

### 4. Frontend Setup

```
cd frontend
npm install
npm run dev
```

Runs on → <http://localhost:3000>

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## ✦ Features

- Landing page with animations + dark/light mode
- Event search & filters
- Real-time seat availability (WebSockets)
- Interactive booking flow + QR code tickets
- Admin dashboard (CRUD events, revenue stats)
- PWA support

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## 🌐 API Endpoints

### Events

- [GET /api/events](#) → list events
- [GET /api/events/:id](#) → single event
- [POST /api/events](#) → create event (admin)
- [PUT /api/events/:id](#) → update event (admin)

- **DELETE** `/api/events/:id` → delete event (admin)

## Bookings

- **POST** `/api/bookings` → create booking
  - **GET** `/api/bookings` → list bookings
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## Remaining Work

- Payment gateway integration
  - Email notifications
  - Multi-language support
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## Developer

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