🚀 Event Management System – Setup Guide

🧠 Backend Stack
- 🌱 **Spring Boot** – Application framework
- 🔗 **REST APIs** – CRUD endpoints design
- 🗄 **Spring Data JPA** – Database interaction
- 🐘 **PostgreSQL** – Production-grade relational database
- 🔒 **Spring Security** – Authentication & API protection
- ⚡ **WebSocket** – Real-time event updates

🎨 Frontend Stack
- ⚛️ **React.js** – Component-based UI
- 🔄 **Axios** – API communication
- 📡 **STOMP over WebSocket** – Real-time messaging

🐳 DevOps & Deployment
- 🐳 **Docker** – Containerized application setup
- 🔨 **Port Management** – Handling backend port conflicts

🏗 Full-Stack Project Built

A production-ready **Event Management System** built using:

🔷 Backend

Spring Boot + REST API + JPA + PostgreSQL + Spring Security + WebSocket

🔷 Frontend

React + Axios + STOMP WebSocket

🔷 DevOps

Docker + Port Management

🖥️ 1️⃣ Frontend Setup (React)

📌 Open Terminal 1 and run:

```
cd /Users/somnathrana/Desktop/DOC/DOC/IDE/Java\ Event-Management_Project/event-management/event-frontend
npm start
```

👉 This will start the frontend at:

```
http://localhost:3000
```

⚙️ 2️⃣ Backend Setup (Spring Boot)

📌 Open Terminal 2

✅ Option 1 (Normal Start)

```
./mvnw spring-boot:run
```

⚠️ If Port 8095 is Already in Use

Run this command to kill the process and restart:

```
lsof -ti:8095 | xargs kill -9 && sleep 2 && ./mvnw spring-boot:run
```

👉 Backend will start at:

```
http://localhost:8095
```

📮 3️⃣ API Testing Using Postman

✅ Create Event

Method: `POST`
URL:
```
http://localhost:8095/api/events
```
Step 1 → Go to Body
- Select **RAW**
- Choose **JSON**

Step 2 → Add JSON:

```json
{
  "title": "Tech Conference",
  "description": "Annual tech meetup",
  "location": "Mumbai",
  "eventDate": "2026-03-15T10:00:00",
  "maxParticipants": 100
}
```

Step 3 → Go to Authorization

- Select **Basic Auth**
- Enter Username & Password
- Click **Send**

✅ Get All Events

Method: GET

```
http://localhost:8095/api/events
```

📌 Project Features

✔ Create Events
✔ View All Events
✔ Secure APIs (Basic Auth)
✔ REST Architecture
✔ Clean Backend Structure
✔ React Frontend Integration

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⭐ Follow for upcoming backend + full-stack project updates.