📌 Product Requirements Document (PRD)

📝 Project: Simple Event Management App

🎯 Objective:

Develop a basic event management platform to practice essential full-stack development concepts such as authentication, authorization, CRUD operations, multi-role access, and user interaction features like event registration.

🚀 Feature Breakdown

🔑 Feature 1: Authentication & Authorization (AuthN & AuthZ)

- **User Signup Controller:** Registers new users
- **User Login Controller:** Authenticates users and issues JWT tokens
- **User Logout Controller:** Logs out authenticated users
- **Change Password Controller:** Allows users to update their passwords
- **Forgot Password Controller:** Sends reset password links via email
- **User Role Management Controller:** Assigns and manages user roles
- **User Profile Management Controller:** Allows users to view and edit profile information

🎟️ Feature 2: Event Management

- **Create Event Controller:** Organizers can create new events with details like title, description, date, and location
- **Update Event Controller:** Organizers can update their own events
- **Delete Event Controller:** Organizers can delete their own events
- **Fetch All Events Controller:** Fetch and display all upcoming events
- **Fetch Single Event Controller:** Fetch details of a particular event

🧾 Feature 3: Event Registration Management

- **Register for Event Controller:** Attendees can register for an event
- **Unregister from Event Controller:** Attendees can cancel their registration
- **Fetch Event Registrations Controller:** Organizers can view attendees registered for their events
- **Fetch User's Registered Events Controller:** Attendees can view a list of events they have registered for

🎯 Feature 4: Event Search and Filtering

- **Search Events Controller:** Search events by title, category, or organizer
- **Filter Events Controller:** Filter events based on date range, location, or category
- **Sort Events Controller:** Sort events by soonest date or most popular
- **List Featured Events Controller:** Retrieve events marked as highlighted or featured

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📌 Additional Information:

- **Roles Involved:**
  - Admin
  - Organizer
  - Attendee
- **Auth Mechanism:** JWT-based authentication
- **Database & ORM:** MySQL with Prisma ORM
- **Frontend:** React.js with Tailwind CSS
- **Backend:** Node.js, Express.js