College Event Management System with Admin Dashboard

Objective

Design and develop a full-stack web application to streamline the management of college events, including event creation, student registration, admin approval, and resource tracking.

Tech Stack

Frontend:

- HTML, CSS, JavaScript
- Frameworks: React.js or Bootstrap

Backend:

- Node.js, Django, or Flask

Database:

- MySQL or PostgreSQL

Development Phases

1. Requirement Gathering (completed)

- Define user roles:
    - Admin: Controls event approvals and system access
    - Event Coordinator: Creates events and manages participants
    - Students: View events and register

- Core Features:

  - Event listing and filters

  - Registration and approvals

  - Admin dashboard

  - Email or notification alerts

2. Database Design (Completed)

- Key Tables:

  - Users (with roles)

  - Events (title, date, venue, description)

  - Registrations (student-event mapping)

  - Resources (rooms, equipment)

  - Feedback (user reviews after events)

3. Frontend Development (Completed)

- Pages to design:

  - Login and Register

  - Event listing with filters (date, type, status)

  - Admin dashboard with CRUD operations

4. Backend API Development

- RESTful API Endpoints for:

  - Authentication and role management

  - Event creation, update, deletion

○　　Registration and approval logic

　　●　Implement Role-Based Access Control (RBAC)

5. Testing and Deployment

　　●　Use Postman for API testing

　　●　Final hosting:

　　　　　○　　Frontend: Netlify or Vercel

　　　　　○　　Backend: Heroku or Render

Expected Outcomes

　　●　Simplified event management for colleges

　　●　Real-time communication between students and coordinators

　　●　Efficient resource allocation and feedback collection