

University of Visvesvaraya College of Engineering

(A State Autonomous Public University on IIT Model)

K. R. Circle, Bengaluru - 560001

B. Tech - Vth Semester

Department of Computer Science & Engineering

Database Management System Lab Project

“College Events Management System”

Submitted by

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Synopsis

College Events Management System

Introduction:

The College Event Management System is a web-based platform designed to streamline the organization, management, and participation of events in a college environment. It bridges the gap between event organizers and students by providing a centralised solution for event planning, promotion, registration, and feedback collection. With this system, students can stay updated about upcoming events, register seamlessly, and provide feedback, while organizers and administrators can efficiently manage event-related tasks, ensuring smooth execution.

Scope:

- Providing a platform for event organizers (such as clubs, committees, and student groups) to create and manage events.
- Allowing administrators to monitor and approve events, ensuring alignment with college policies.
- Enabling students to explore events, register, and track their participation.
- Supporting feedback collection for continuous improvement of events.
- Integrating a notification system for event updates and reminders.
- Generating reports for insights into participation rates, event popularity, and student preferences.
- This project will be scalable to accommodate multiple colleges and flexible enough to include additional features like mobile app support and third-party integrations.

Objectives:

- To provide a single platform for managing all college events efficiently.
- To reduce manual effort and paperwork in event management processes.
- To enhance student engagement and participation through improved accessibility and notifications.
- To ensure transparency in event registrations and feedback analysis.
- To foster collaboration among various organizing committees and participants.

Methodologies:

The project development will follow the Agile Methodology, ensuring iterative and incremental progress with continuous feedback.

Key steps include:

- Requirement Analysis: Understanding the needs of administrators, event organizers, and students.
- System Design: Developing an architecture blueprint, including database design, user interface mockups, and feature workflows.
- Development: Implementing the system in modular stages:
 1. User authentication

2. Event creation and management
 3. Notifications and reminders
 4. Feedback collection
- Testing: Conducting unit testing, integration testing, and user acceptance testing to ensure reliability and usability.
 - Deployment: Deploying the platform on a cloud server, ensuring scalability and security.

Tech Stack:

- **Frontend:**

Languages: HTML, CSS, JavaScript

Frameworks: React.js for dynamic user interfaces

Styling: Bootstrap or Tailwind CSS for responsive design

- **Backend:**

Languages: Node.js (with Express.js)

Authentication: JSON Web Tokens (JWT) or OAuth

- **Database:**

MySQL for relational data storage (users, events, registrations, feedback).

- **Other Technologies:**

Version Control: Git and GitHub for collaboration.

Deployment Platforms: AWS, Azure, or Firebase.

APIs: Email or SMS notifications using Twilio/SendGrid.