

## Project Title:

### Online Event Management System

#### Abstract:

The **Online Event Management System (OEMS)** is a robust web-based platform designed to optimize event planning, coordination, and booking. It caters to event organizers, attendees, and administrators by offering an efficient and seamless experience for event scheduling, participant registration, venue booking, and notifications. Traditional event management faces challenges like manual errors, miscommunication, and lack of real-time updates. This system addresses these issues by leveraging modern web technologies to provide a scalable and user-friendly interface.

The core features of the **OEMS** include user authentication, event creation, online ticket booking, secure payment integration, real-time notifications, and automated reminders. Built using **Java** (Spring Boot for backend, React.js/Angular for frontend), the system follows **Advanced Object-Oriented Programming (AOOP) principles**, incorporating design patterns like **MVC, Singleton, and Factory**. The system is designed with a **user-centric approach**, ensuring seamless interaction between event hosts and participants. It supports cloud hosting for improved accessibility and performance. Future enhancements may include **AI-driven personalized event recommendations** to enhance user engagement.

## Software and Hardware Requirements:

### Software Requirements:

- Programming Language: Java
- Backend Framework: Spring Boot (REST APIs)
- Frontend Framework: React.js / Angular
- Database: MySQL
- Development Tools: Visual Studio Code / Eclipse
- Server for Web Deployment: Apache Tomcat / Nginx
- Version Control: GitHub / GitLab

### Hardware Requirements:

- Processor: Intel Core i5 or higher
- RAM: 8GB minimum (16GB recommended)
- Storage: 250GB SSD or higher
- Internet Connection: Required for cloud hosting and API integrations

## Team Members:

- SAJJA.KUSUMITHA (2320030302)
- SATLA.PRAYUKTHIKA (2320030153)
- MADDINENI.ANNAPURNA (2320090064)