

A Web-Based Approach for Seamless College Event Planning

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ABSTRACT

The College Event Planning System is a web-based application designed to automate and simplify the management of academic, cultural, and technical events in educational institutions. Traditional event management methods rely on manual coordination, notices, and paperwork, which are inefficient and prone to errors. The proposed system provides a centralized platform with role-based access for administrators, faculty members, and students. Administrators can create and manage events, faculty members can coordinate assigned events, and students can view and register for events online. The system ensures accurate data handling, improved communication, and transparent event management. Developed using HTML, CSS, JavaScript, Java (JSP and Servlets), and MySQL, the application reduces manual workload, improves efficiency, and enhances user experience. Overall, the system offers a reliable and user-friendly solution for effective college event planning and management.

Key Words: College Event Planning System, Web Application, Event Management, Role based access, Authentication and Data Security.

INTRODUCTION

College event management is an essential function of educational institutions that organize academic, cultural, and technical activities for students. Traditionally, event planning activities such as announcements, registrations, and coordination are handled manually using registers, notice boards, and verbal communication. These conventional approaches are prone to errors, inefficiency, poor coordination, and lack of transparency, leading to confusion and missed information.

The proposed College Event Planning System is a web-based application designed to digitalize event management processes and improve efficiency for administrators, faculty, and students. It allows students to view and register for events online, faculty members to coordinate activities, and administrators to manage event records effectively. By centralizing event information, the system reduces manual workload and enhances coordination. Developed using modern web technologies, the system provides a reliable and user-friendly platform for managing college events.

LITERATURE REVIEW

College event management systems have evolved from manual approaches to web-based platforms that improve efficiency and communication. Earlier systems relied on notice boards and paper records,

resulting in data inconsistency and delays. Mehta et al. (2024) highlighted that web-based event management systems reduced coordination issues significantly. IJESAT Research (2023) emphasized centralized event data for better planning and execution. Chaturvedi et al. (2022) introduced a layered event management platform to simplify event registration and tracking.

Some ERP-based solutions provide event modules but are costly and complex for small institutions. Recent studies focus on role-based access and database-driven systems for scalability and security. However, many existing systems lack flexibility and affordability. The proposed system addresses these gaps by offering a simple, secure, and cost-effective web-based solution tailored for college event management.

RELATED WORK

Several researchers have developed automated event management systems to reduce manual coordination and improve efficiency. Earlier systems focused on event scheduling and basic registration. ERP platforms introduced advanced features but required high investment and technical expertise. Other studies emphasized centralized databases to improve data storage and retrieval.

Cloud-based event management systems improved accessibility but lacked customization for college environments. Most existing systems do not provide clear role separation. The proposed system overcomes these limitations by offering role-based dashboards for administrators, faculty, and students, ensuring efficient coordination and transparency.

EXISTING METHOD

In traditional college event management, activities such as event announcements, registrations, and coordination are handled manually. Event details and participant records are maintained separately by departments using registers or spreadsheets. Students rely on notice boards or informal communication for event updates, which often leads to missed information.

Tracking participation and maintaining historical event data is difficult due to the lack of centralized storage. Manual handling increases errors and delays. Security and privacy are also weak, as records can be misplaced or accessed by unauthorized individuals. Existing software solutions are often expensive and unsuitable for small institutions, highlighting the need for a simple automated system.

PROPOSED METHOD

The proposed College Event Planning System is a web-based application designed to automate event management activities. It follows a role-based approach with separate dashboards for administrators, faculty members, and students. Administrators can create and manage events, faculty members coordinate assigned activities, and students can view and register for events.

The frontend is developed using HTML, CSS, and JavaScript for a responsive interface. The backend uses Java (JSP and Servlets), while MySQL serves as the centralized database. The system reduces manual errors, improves transparency, and enhances coordination. Overall, it provides an efficient and reliable solution for college event planning.

SYSTEM ARCHITECTURE

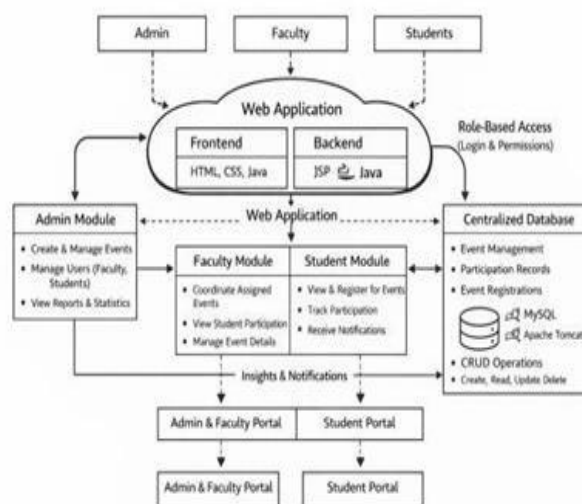


Fig 1: System Architecture

METHODOLOGY DESCRIPTION

Front End: The frontend includes login pages and dashboards for administrators, faculty, and students. Users interact with the system through these interfaces.

Back End: The backend handles authentication, role-based access, and event management operations using Java technologies.

Data Base: The MySQL database stores all user, event, and registration details and supports efficient data retrieval.

RESULTS AND DISCUSSIONS

Home Page: The home page provides login options for administrators, faculty, and students.



Fig 2: Home Page for College Event Management System

Student Dashboard: Students can view event details and register for available events.



Fig 3: Student Dashboard for the Hostel Management System

Admin Dashboard: Administrators can create events, manage records, and monitor registrations.



Fig 4: Admin Dashboard for the College Event Management System

CONCLUSION

The proposed College Event Planning System efficiently automates event management activities such as event creation, coordination, and registration. It reduces manual effort, minimizes errors, and ensures accurate record management. The system provides secure and user-friendly access for all users. Overall, it offers a reliable and cost-effective solution for managing college events.

FUTURE ENHANCEMENTS

Future enhancements include email and SMS notifications, mobile application support, online certificate generation, payment gateway integration, and advanced analytics for event management.

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