

Automated Inter-College Event Management System

Prof. S.H.Sangale

Department of Computer Technology

K. K. Wagh Polytechnic, Nashik, India

Manyata D.Bagle

Department of Computer Technology

K. K. Wagh Polytechnic, Nashik, India

Shravani M.Upasani

Department of Computer Technology

K. K. Wagh Polytechnic, Nashik, India

Samruddhi R.Mogal

Department of Computer Technology

K. K. Wagh Polytechnic, Nashik, India

Vaishnavi S.Bachhav

Department of Computer Technology

K. K. Wagh Polytechnic, Nashik, India

Abstract

- Automated Inter-College Event Management System

This project aims to develop an android application that simplifies and streamlines the organization and management of inter-college events. The system will provide a centralized platform for event registration, participation, evaluation, and communication. Key features include event creation, participant management, team formation, scoring, result publication, and collaboration tools. By automating various tasks and providing a transparent and efficient platform, this system will enhance the overall experience for both event organizers and participants. The Automated Inter-College Event Management System is designed to revolutionize the way inter-college events are conducted. By providing a comprehensive online platform, the system aims to streamline event registration, participation, evaluation, and communication processes. Participants can easily register for events, form teams, and track their progress. Organizers can efficiently manage event details, assign tasks, and evaluate performances. The system also incorporates features for real-time updates, result publication, and collaboration among participants and organizers. Ultimately, this system aims to enhance the overall efficiency, transparency, and engagement of inter-college events. The Automated Inter-College Event Management System is a cutting-edge android platform designed to revolutionize the way inter-college events are organized and conducted. It offers a centralized hub for all event-related activities, from registration and team formation to

evaluation and result publication. The system streamlines administrative tasks, allowing organizers to focus on creating engaging and memorable events. Participants can easily register, track their progress, and collaborate with team members. Additionally, the system incorporates features for real-time updates, automated scoring, and seamless communication, fostering a more efficient and enjoyable experience for all involved.

Keywords: cutting-edge, automation, efficiency administrative, android

1.Introduction

Inter-college events are an integral part of academic and extracurricular activities, providing students with opportunities to showcase their talents, network with peers, and gain valuable experience. However, managing such events manually often leads to inefficiencies, miscommunication, and administrative challenges. To address these issues, the Automated Inter-College Event Management System is developed as a comprehensive digital solution that simplifies and enhances the event organization process.

This system is an Android-based platform designed to provide a centralized hub for event registration, participation, evaluation, and communication. It aims to automate time-consuming administrative tasks, ensuring a smooth and structured execution of inter-college events. Organizers can efficiently manage event details, assign tasks, evaluate performances, and publish results in real time. Participants, on the other hand, can easily

register, form teams, track their progress, and receive instant updates.

The system is equipped with advanced features such as real-time notifications, automated scoring, live result publication, and seamless collaboration tools. These functionalities not only enhance the efficiency of event management but also create a more engaging and transparent experience for both organizers and participants. With its user-friendly interface and robust functionalities, the Automated Inter-College Event Management System eliminates traditional event management challenges, paving the way for a more structured, digital, and efficient approach to handling inter-college competitions, workshops, and cultural fests. By leveraging this platform, colleges can reduce manual workload, enhance coordination, and ensure successful event execution with minimal effort. This project serves as a technological breakthrough in the domain of academic event management, bridging the gap between traditional event handling methods and modern digital solutions. The Automated Inter-College Event Management System is designed to revolutionize the way inter-college events are conducted. By providing a comprehensive online platform, the system aims to streamline event registration, participation, evaluation, and communication processes. Participants can easily register for events, form teams, and track their progress. Organizers can efficiently manage event details, assign tasks, and evaluate performances.

2..Literature Survey

The management of inter-college events has traditionally relied on manual processes, involving extensive paperwork, spreadsheets, and physical coordination. With advancements in technology, various digital solutions have been explored to streamline event organization. Several studies and existing systems provide insights into the evolution of event management software and highlight the need for a more efficient, automated solution.

1.Manual Event Management Challenges

- Mobile and Web Applications – Enhancing accessibility for users.
 - Cloud Computing – For real-time data synchronization.
 - Blockchain for Transparency – Used in certain systems to maintain tamper-proof event records
- Thus, existing research and systems highlight the necessity for an automated, mobile-friendly, and AI-powered inter-college event management platform to

Traditional methods of organizing inter-college events involve numerous inefficiencies, such as:
Time-consuming registration processes with physical forms or spreadsheets.

Difficulty in communication between participants, organizers, and judges.

Challenges in result calculation and evaluation due to manual scoring methods.

Lack of real-time updates, leading to confusion and mismanagement.

2. Existing Digital Solutions Several digital platforms exist for general

event management, including:

Eventbrite, Cvent, and Whova – These platforms facilitate event registration and scheduling but lack specialized features for inter-college competitions.

Google Forms & Spreadsheets – Often used for basic event registration but do not support automation of scoring or real-time collaboration.

University Event Portals – Some institutions have their own event management systems, but they are often restricted to internal use and lack mobile accessibility.

3. Need for an Automated System

Research suggests that event management can be significantly improved by integrating automation, mobile accessibility, and real-time collaboration features. A dedicated Automated Inter-College Event Management System can address the limitations of existing solutions by:

- Providing a centralized platform for registration, participation tracking, and scoring.

- Offering real-time notifications to keep all participants and organizers informed.

- Automating result calculation and publication, reducing human errors.

- Enabling seamless communication between stakeholders.

4. Technologies Used in Event Management Systems

Various technologies have been leveraged in digital event management, including:

- Machine Learning (ML) for Automated Evaluation – Some platforms incorporate ML to analyze performance data.

improve efficiency, transparency, and user experience.

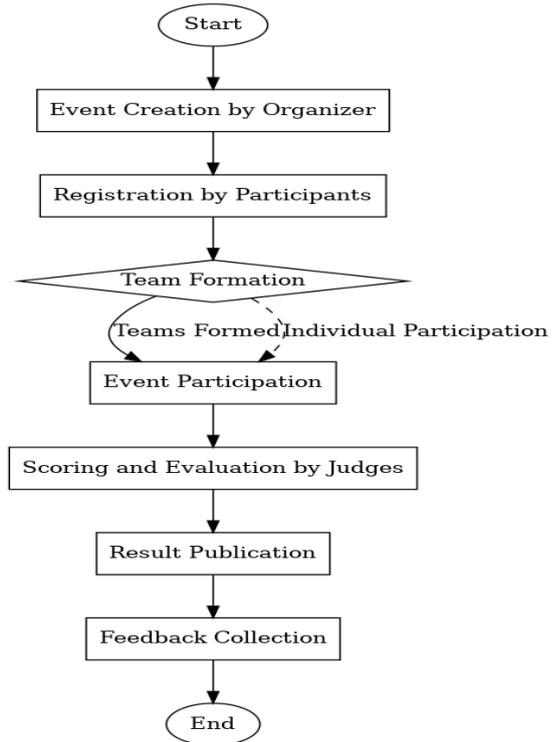
3.Problem Definition

The current event management process is inefficient, requiring manual registration, complex coordination,

and delayed result announcements. This project proposes an automated system that streamlines these operations through a user-friendly digital interface. Limitations of Traditional Event Management Systems: The current method of managing inter-college events largely relies on manual processes, which introduce several inefficiencies:

1. Manual Registration Process:
 - Participants need to fill out physical forms or Google Forms.
 - Organizers must manually compile participant lists, leading to errors and delays.
2. Inefficient Communication:
 - Information is shared via WhatsApp, emails, or notices, causing delays in updates.
 - Participants often miss important announcements due to unstructured communication.
3. Complex Team Management:
 - Team formation is done manually, making it difficult to track members and participation.
 - Organizers struggle to verify team eligibility and role assignments.
4. Time-Consuming Event Scheduling & Coordination:
 - Events are scheduled using spreadsheets or handwritten plans.
 - Organizers manually check venue availability and ensure that events do not overlap.
5. Manual Evaluation & Result Processing:
 - Judges use paper-based scoring, which is prone to errors.
 - Results take time to compile and are often announced late.
 - There is a lack of transparency in score calculations and ranking.
6. Lack of Real-Time Updates & Tracking:
 - Participants have no way to track their progress in an event.
 - Result announcements take time, and there is no digital tracking system.

4. Proposed Working



The Automated Inter-College Event Management System is designed to overcome the limitations of traditional event management methods by providing a centralized, digital, and automated platform for organizing inter-college events. This system ensures efficient event coordination, real-time communication, and transparent evaluation, making the entire process smooth and hassle-free for both organizers and participants.

Key Features of the Proposed System:

1. Online Registration & Team Formation
 - Participants can register online and join individual or team-based events.
 - The system automatically verifies participant eligibility and allows for seamless team formation.
2. Event Scheduling & Management
 - Organizers can create, schedule, and manage multiple events through a single dashboard.
 - A conflict-free scheduling system prevents event overlaps and mismanagement.
3. Automated Evaluation & Scoring System
 - Judges can enter scores digitally, and the system calculates results automatically.
 - The platform ensures transparent and tamper-proof scoring to maintain fairness.
4. Real-Time Notifications & Updates
 - Participants and organizers receive instant notifications about event schedules, updates, and results.

- The system sends reminders for upcoming events and deadlines.
 - 5. Result Publication & Ranking System
 - Results are automatically published online after evaluation.
 - Participants can track their performance and see leaderboards in real time.
 - 6. Communication & Collaboration Tools
 - Built-in messaging/chat features allow organizers, participants, and judges to communicate seamlessly.
 - Announcements and important notices can be shared directly through the system.
 - 7. Admin Dashboard for Event Monitoring
 - A dedicated admin panel allows supervisors and event coordinators to oversee the entire event process.
 - Admins can manage registrations, track participation, and generate reports for analysis.
- Advantages of the Proposed System:
1. Efficiency – Eliminates manual paperwork, reducing administrative workload.
 2. Transparency – Ensures fair evaluation and result publication.
 3. Accessibility – Participants and organizers can access the system from anywhere via a mobile app.
 4. Time Tracking – Provides instant updates, making event management smoother.
 5. User-Friendly Interface – Simple and intuitive design for easy navigation.

5.Result

The Automated Inter-College Event Management System successfully streamlines the organization and execution of inter-college events by integrating user authentication, event registration, agenda tracking, real-time notifications, billing management, and automated result computation into a single platform.

Key outcomes include:

- Simplified User Access: Guests, Admins, and Super Admins can efficiently navigate and manage events based on their access level.
- Automated OTP Verification: Secure login and registration process using SMTP-based OTP authentication.
- Seamless Event Registration: Students can register and track their event participation through an interactive dashboard.

- Real-time Notifications: Participants receive instant pop-ups regarding event schedules, venue changes, and results.
- Efficient Billing Management: Admins can track expenses, and Super Admins maintain financial oversight.
- Automated Result Processing: Judges input scores, and the system automatically ranks the top three participants based on predefined criteria.

6.Conclusion`

The Automated Inter-College Event Management System successfully addresses the challenges faced in organizing, managing, and executing inter-college events by providing a centralized, digital platform for seamless coordination. This system enhances efficiency, transparency, and user engagement, reducing the manual workload of event organizers while ensuring a smooth experience for participants.

With features like online registration, automated OTP authentication, real-time notifications, agenda tracking, financial management, and automated result processing, the platform simplifies event execution while maintaining accuracy and fairness. The integration of SMTP for OTP verification ensures secure authentication, while the role-based access control system allows super admins, admins, and guests to interact with the platform based on their permissions.

The system significantly reduces paperwork, eliminates manual errors, and ensures a structured workflow from event registration to result declaration. The incorporation of AI-driven automation, cloud-based storage, and data analytics in future updates will further improve its functionality and scalability.

In conclusion, the Automated Inter-College Event Management System serves as a modern, technology-driven solution that revolutionizes traditional event management processes. Its potential for future enhancements makes it a scalable and sustainable platform, ensuring long-term usability for academic institutions and event organizers.

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