

# COLLEGE EVENT MANAGEMENT SYSTEM

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**Abstract:** College Event Management System represents a comprehensive software solution designed to optimize and streamline the planning, organization, and management of events within college. This research project addresses the challenges encountered by academic institutions in coordinating and executing a diverse range of events, including conferences, seminars, cultural festivals, and sports tournaments, with a primary focus on enhancing efficiency, communication, and collaboration. The objective of this study is to explore the development and implementation of the College Event Management System, underscoring its potential to transform event management within educational institutions. By combining user insights, case studies, and indepth analysis. The findings underscore the importance of modernized event management tools in promoting student engagement, fostering effective communication, and facilitating the successful execution of events within the college environment. Ultimately, this research project aims to provide valuable insights for academic institutions seeking to optimize their event management processes, thereby enhancing the overall campus experience.

**Keywords:** Java, Spring Boot, MySQL, HTML, CSS, RESTful APIs, College Events, Event Management, Student Engagement, Efficiency Communication.

## 1.INTRODUCTION

The ambiance of college life is often illuminated by a variety of events, including sports tournaments, cultural festivals, and conferences. These events serve as focal points for student engagement, injecting energy into campus communities and enriching the academic experience. However, the orchestration of these events can be a complex undertaking. It is in this context that the College Event Management System comes into play. This innovative tool is purpose-built to simplify and enhance event planning and management within academic institutions. Through a combination of user feedback, real-world case studies, and in-depth analysis, our research underscores the importance of this modern event management tool. It demonstrates how such a system can invigorate student engagement, streamline communication, and ensure the efficient coordination of events on college campuses. The insights derived from this study are intended to offer valuable guidance to academic institutions seeking to optimize their event management processes and enhance the overall campus experience. The landscape of college life has evolved significantly over the years, with both students and faculty recognizing the vital role that events play in fostering a vibrant campus environment. These events not only provide a respite from academic rigors but also offer students the opportunity to explore their interests, showcase their talents, and connect with peers who share their passions. However, the increasing complexity and diversity of events have presented considerable challenges for event organizers and college administrators.

## 2.LITERATURE SURVEY

**J. M. Raja Shanmugam et al., [1] Event Management System (EMS) on a web platform,** aims to automate event-related tasks, minimize manual effort, and enhance security. The system's key components, including authentication, organizing, social media integration, and ticketing, are briefly summarized. By comparing the proposed method with existing research, the review highlights potential benefits and contributions to event management practices, while also identifying areas for further exploration. Overall, this condensed overview provides a comprehensive understanding of the EMS and its implications for event organization and execution.

**Rishikesh Shekhar Arote et al., [2] College Event Management Android App,** focusing on its significance in addressing the complexities of organizing college events. The methodology involves systematic steps such as requirements gathering, design, development, testing, deployment, and maintenance, with emphasis on agile methodologies to facilitate collaboration and flexibility. Analysis and modeling phases are highlighted as crucial for ensuring the app meets user needs and expectations, with visual representations aiding in design feedback and comprehensive documentation. Overall, the literature survey underscores the importance of the app in improving efficiency, promoting student engagement, and strengthening the sense of community on campus.

**Asraf Ansari et al., [3] The College Event Web Application,** serves as an online event management platform tailored for college events and conferences. This web-based system allows registered users to log in and new users to register, facilitating event management and related functionalities. The system's objectives include enhancing event organization efficiency, minimizing time spent on venue selection, ensuring user-friendliness, and managing multiple events seamlessly. The application's versatility extends to organizing school and community events, planning major events like festivals and conferences.

**Harika T et al., [4] College Event Management System,** is a web-based application designed to streamline the management of college activities such as social and technical fests, sports events, workshops, and courses. The system aims to provide comprehensive event information, maintain student participation records, manage branch and sports details, and showcase college achievements. Key features include registration, login, event details management, department management, event timetable generation, and event performance graph generation. The system consists of two modules: student and administrator, each with specific functionalities. Overall, the system provides a user-friendly interface for students to access event information and for administrators to manage and update event data efficiently.

### 3. PROPOSED SYSTEM

The envisioned "College Event Management System" represents a comprehensive shift towards modernizing and enhancing the event planning and management processes within the college context. This system is poised to replace conventional manual and paper-based approaches with an intuitive, web-based platform. The primary objectives encompass relieving administrative burdens, amplifying communication channels, and delivering an inherently user-friendly experience. This system will be composed of both front-end and backend components, intricately designed to offer features that include event creation, seamless participant registration, and automated communication mechanisms. A pivotal focus is directed towards ensuring accessibility for a diverse user base while maintaining an exceptional user interface. Anticipated outcomes comprise a more efficient and easily accessible model for managing college events. The proposed system acknowledges and confronts potential challenges and constraints that may arise during its implementation. It will also be assessed in comparison to existing systems to underscore its distinct advantages. As part of the future roadmap, the system's further refinement and expansion are envisioned based on valuable user feedback and evolving requirements.

#### 1. User Management Module

The User Management Module serves as the foundation of the system by handling all aspects of user authentication and role-based access control. It allows users—students, organizers, and admins—to register and log in securely through encrypted password handling and account verification. Once authenticated, users are granted access to system functionalities according to their roles. For instance, students can register for events, organizers can create and propose events, while admins can approve or reject them. This module ensures that users interact only with the features relevant to their role, and it seamlessly interfaces with all other modules to enforce permissions and maintain security throughout the system.

#### 2. Event Management Module

This module empowers organizers to create, update, and manage events through a user-friendly interface. It supports the input of essential details such as the event title, description, date, time, venue, and category (like cultural, academic, or sports). Organizers can also upload promotional materials like banners or flyers to enhance event visibility. Once submitted, events are routed to the approval module for review. The Event Management Module interacts closely with the approval, registration, and dashboard modules, ensuring that only approved events become visible for student registration and system-wide tracking.

#### 3. Event Approval Module

The Event Approval Module is designed specifically for faculty or admin users who are authorized to oversee and regulate campus events. After an organizer submits an event proposal, this module presents the event details for administrative review. Admins can then approve or reject the event and provide comments or feedback for improvement. Each decision is tracked through a status system (e.g., Pending, Approved, Rejected), and notifications are triggered automatically to inform organizers of the outcome. This module interacts directly with the Event Management, Notification, and Dashboard modules to ensure that only validated events proceed through the system.

#### 4. Registration Module

The Registration Module handles the student-facing aspect of the system, allowing users to browse and register for upcoming events that have received administrative approval. The module supports features like registration limits, waitlists, and real-time seat availability tracking. Upon successful registration, students receive confirmation messages, which may include QR codes for event check-in. Organizers can also view the list of registered participants to plan better. This module is closely linked to the Event Management Module to display event details, and it interacts with the Notification and Feedback modules to provide timely updates and collect post-event responses.

#### 5. Notification and Communication Module

Keeping all users informed is the responsibility of the Notification and Communication Module. It generates and delivers real-time alerts and messages related to event status changes, registration confirmations, and approval decisions. Whether through email, in-app notifications, or pop-up alerts, this module ensures that students, organizers,

##### Technologies Used:

- **Backend:** Java, Spring Boot, Spring Security, Hibernate/JPA
- **Frontend:** HTML, CSS, JavaScript, Thymeleaf (or can be Angular/React if using REST APIs)
- **Database:** MySQL or PostgreSQL
- **APIs:** RESTful services for modularity and integration
- **Deployment:** Can be hosted on a local server or cloud (e.g., AWS, Heroku)

##### System Advantages:

- All-in-one digital platform for event creation, promotion, and management.
- Web-based interface with responsive design.
- Role-specific access (Admin, Organizer, Participant).
- Real-time updates, automated registration, and smart notifications Scalable, secure, and beautifully streamlined.

##### Advantages of the Proposed System

- **Improved Efficiency:** Automates event planning, registration, communication, organizers.
- **Centralized Information:** Stores all event-related data in one place.
- **Real-Time Communication:** Sends notifications via email.
- **User-Friendly Interface:** Simplifies event registration and tracking for students & faculty.
- **Customization and Scalability:** Can be tailored to different types of events.

```

sequenceDiagram
    actor EM as Event Manager
    actor S as Student
    EM->>Login: 
    Login->>ED: 
    ED->>RL: 
    RL->>P: 
    P->>EM: 
    EM->>S: Registration Successfully Done
    S->>ED: 
    ED->>RL: 
    RL->>P: 
    P->>EM: 
    EM->>S: Registration Successfully Done
  
```

The diagram illustrates the interaction between an Event Manager and a Student in a registration system. The Event Manager initiates the process by logging in, which leads to viewing Event Details. The Student then registers and logs in, leading to a payment step. Both users then proceed to a final state where the registration is successfully done.

The diagram illustrates the system architecture, showing the interaction between user roles, the web server, and the database.

**User Roles**

- Admin**
  - Manages event listings, user roles, and system settings
  - Approves/rejects events
- Organizer**
  - Creates/edits events
  - Upload documents / images
  - Views participant lists
- Student**
  - Registers/login (Student ID/Password)
  - Browses events
  - Checks participation history

**Web Server (PHP Application)**

- Process user actions
- Forward queries

**WEB Database (MySQL)**

- Access / Data
- Store and retrieve

**Interactions:**

- Student** interacts with the **Web Server** via **Register/Login**, **Browse/Register**, and **Feedback**.
- Admin** interacts with the **Web Server** via **Approve Events**, **Manage Users**, and **Reports**.
- The **Web Server** interacts with the **WEB Database** via **Access / Data** and **Store and retrieve**.
- The **Web Server** interacts with the **Admin** via **Process user actions** and **Forward queries**.
- The **Admin** interacts with the **Web Server** via **Dataset results storage**.

5.OUTPUT SCREENS

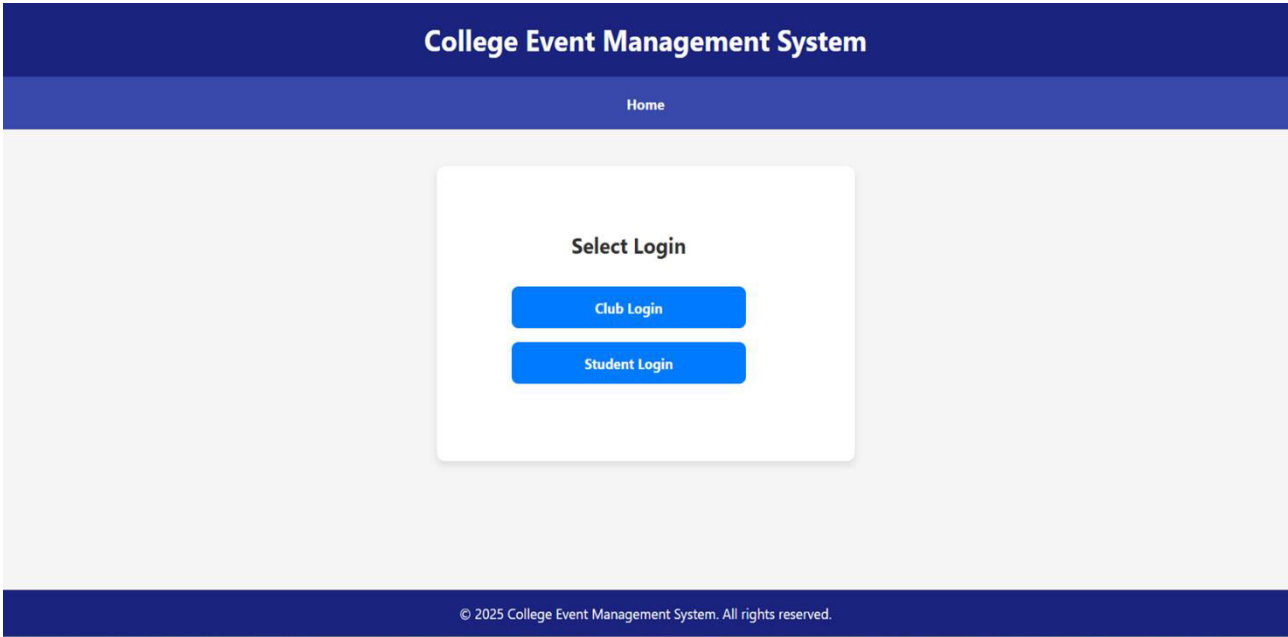


Fig 5.1:Landing Page

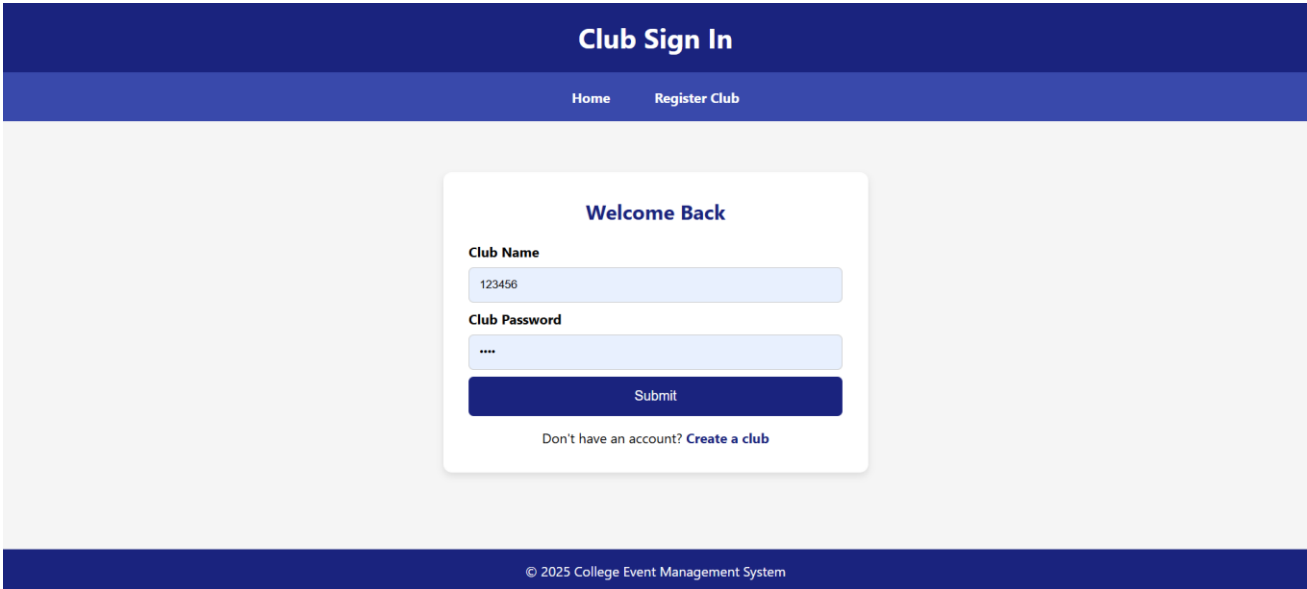


Fig 5.2: Login Page

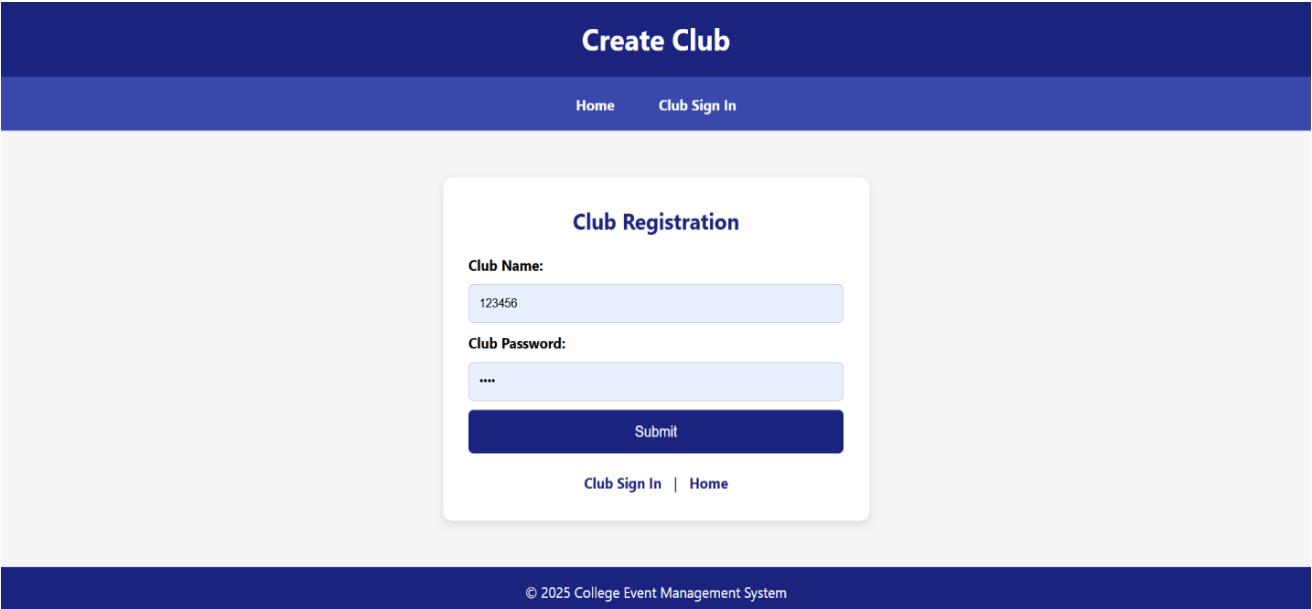


Fig 5.3: Registration Page

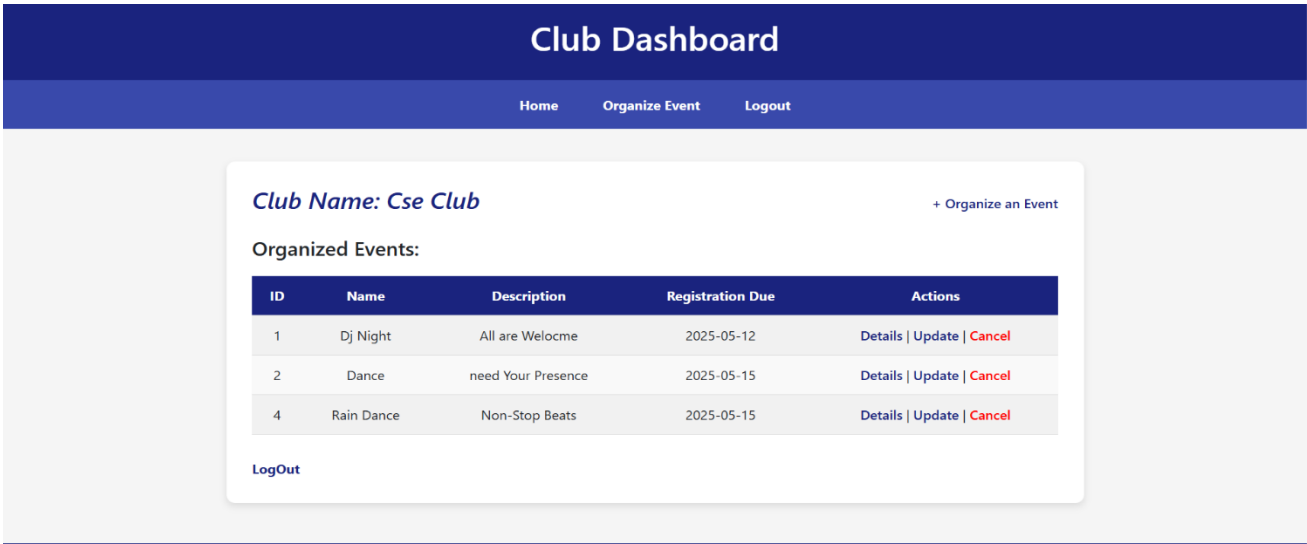


Fig 5.4: Club Dashboard

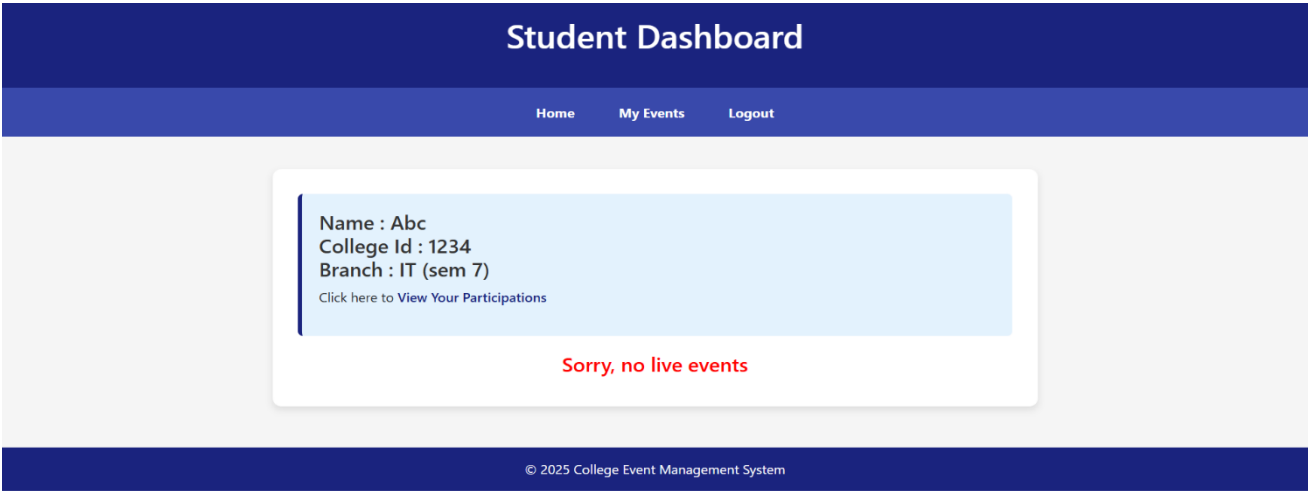


Fig 5.5: Student Dashboard

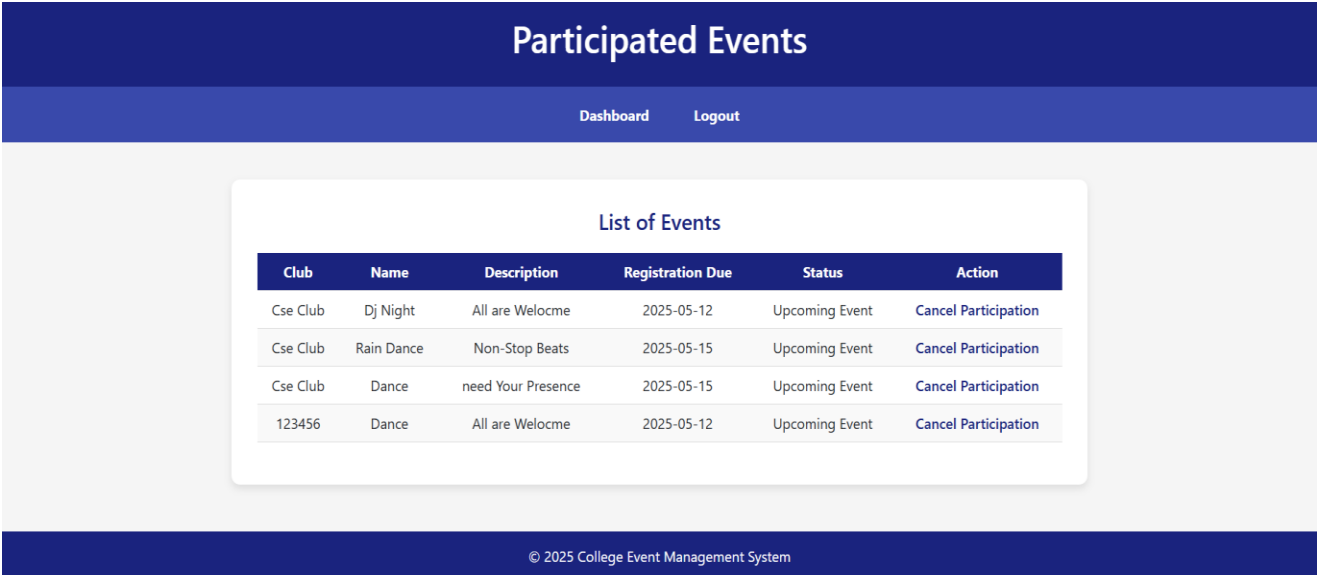


Fig 5.6: List of Events



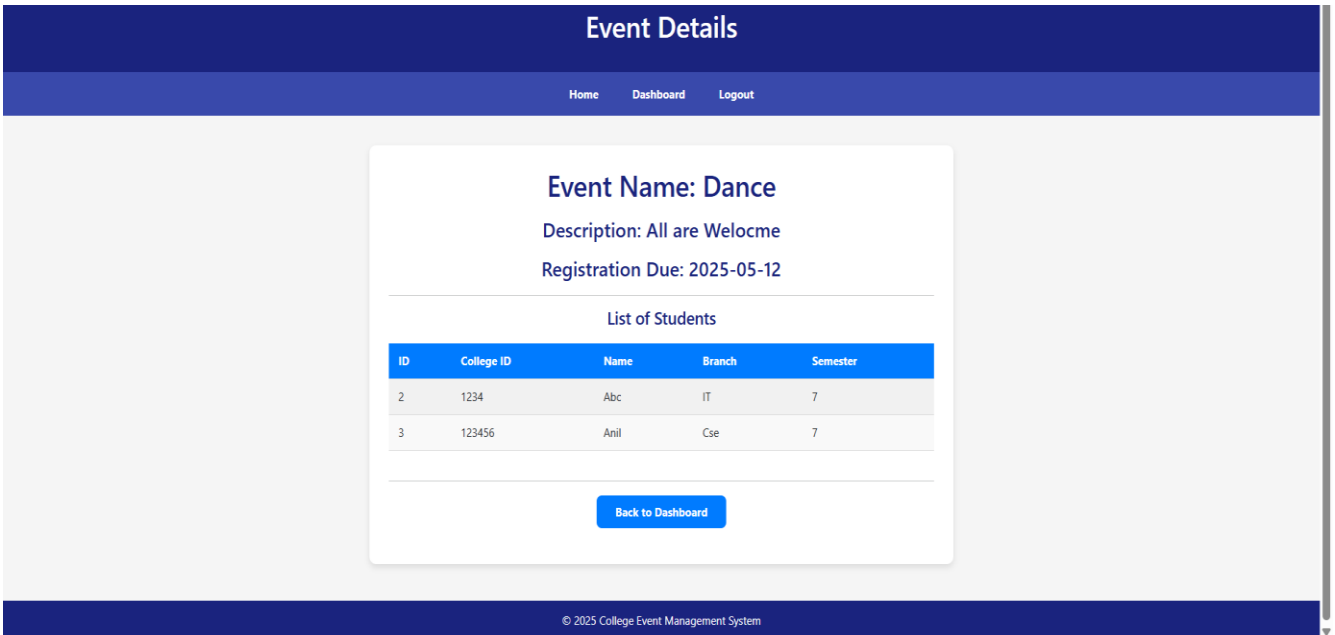


Fig 5.7: Event Details

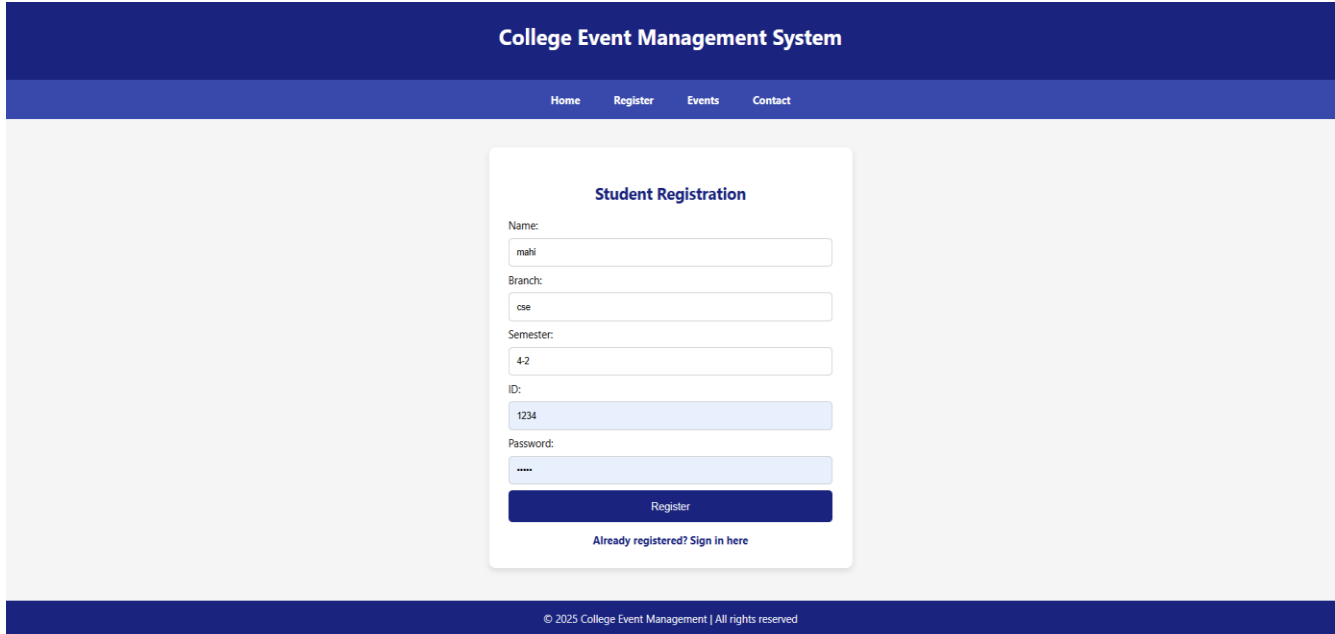


Fig 5.8: Student Registration

## **5. CONCLUSION**

The College Event Management System has been a great success in streamlining the process of organizing events within our college. The system has provided a user- friendly platform for students and faculty members to create, manage and track events. This has led to an increase in the number of successful events being organized on campus. Through the use of this system, we have been able to save time and resources that were previously wasted on manual planning and coordination. Overall, the College Event Management System has proved to be a valuable addition to our college and we look forward to its continued use in the future.

## **6. FUTURE SCOPE**

The future scope for the college event management system is vast and exciting. With the advancement of technology, there are numerous prospects for enhancing the current system and making it more efficient and effective.

Some of the Potential Areas for Future Development are: Use of Big Data Analytic for event trend analysis and prediction

Integration with social media platforms to increase event visibility and participation.

Enhanced security features to ensure safety of participants and attendee

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