

# COMMUNITY EVENT DISCOVERY AND MANAGEMENT PLATFORM

Anil Nana Jagzap\*, Anshu Sunil Shejole\*\*, Ashutosh Subhash Minde\*\*\*, Sarthak Sushil Kanade\*\*\*\*, Prof. Rohini Thete\*\*\*\*\*

\*(Computer Engineering, Sandip Foundation, Sandip Polytechnic and Nashik  
Email: [aniljagzap0@gmail.com](mailto:aniljagzap0@gmail.com))

\*\* (Computer Engineering, Sandip Foundation, Sandip Polytechnic and Nashik  
Email: [anshushejole@gmail.com](mailto:anshushejole@gmail.com))

\*\*\* (Computer Engineering, Sandip Foundation, Sandip Polytechnic and Nashik  
Email: [ashutoshminde108@gmail.com](mailto:ashutoshminde108@gmail.com))

\*\*\*\* (Computer Engineering, Sandip Foundation, Sandip Polytechnic and Nashik  
Email: [connectwithsarthakk@gmail.com](mailto:connectwithsarthakk@gmail.com))

\*\*\*\*\* (Computer Engineering, Sandip Foundation, Sandip Polytechnic and Nashik  
Email: [rohini.thete@sandippolytechnic.org](mailto:rohini.thete@sandippolytechnic.org))

\*\*\*\*\*

## Abstract:

Nowadays, discovering relevant community events, evaluating their quality, and joining suitable communities has become a challenging task, especially for beginners. Existing event platforms are often fragmented, forcing users to rely on multiple sources to find events, communicate with organizers, and participate effectively. Similarly, event organizers face difficulties in managing registrations, payments, venues, communication, and event promotion using different tools.

This paper proposes a modern, user-friendly platform designed for community event discovery and management. The platform supports various event types such as technical meetups, workshops, student activities, cultural programs, and online events. Users can browse upcoming events, view complete event details, communicate with other interested participants using an integrated chat system, and share feedback after attending events. Entrepreneurs can connect with industry professionals to enhance their knowledge. Organizers can create and manage events, track RSVPs, manage guest lists and speakers, integrate payment gateways, create community groups, and optionally host online events. By centralizing these functionalities, the proposed platform aims to improve community engagement and reduce operational overhead. The system has the potential to scale across campuses, cities, and interest groups, making it a reliable solution for future community-driven activities.

*Keywords* — **Event Management, Community Platform, Online Events, Web Application.**

\*\*\*\*\*

## I. INTRODUCTION

Community events such as workshop, meetups, seminar, culture programs, and student activities play an important role in learning, networking, and social interaction. With the growing interest in offline and online events, people are actively looking for platforms that help them to easily discover relevant events, socialize, and connect with like-minded individuals. However, beginners often find it

challenging to identify suitable events, evaluate their relevance, decide whether attending the event is worth it, and communicate with organizers or attendees before participating.

From an organizer's perspective, event management is a complex and time-consuming task that involves promotion, registration handling, payment collection, venue management, communication with attendees, finding volunteers, and post-event feedback. Many organizers currently

depend on multiple platforms for these tasks, which increases operational complexity, the cost of organizing an event, and reduces efficiency.

Currently, existing event management systems mostly focus on basic registration and administration features, often lacking community interaction, real-time communication, management, and event discovery capabilities. This creates a gap between event management and community engagement. To address these challenges, this paper proposes a unified platform that supports both attendees and organizers while encouraging stronger community interaction.

## II. LITERATURE REVIEW

Many studies have explored event management systems and similar platforms. Mair presented an analysis of event research trends, highlighting that most studies focus on event impacts, tourism, and management, while limited attention is given to technology-driven platforms that support the local, student-led, and college events. This indicates the need for a modern, digital, automated system.

Khan et al. proposed an online Event Management System for Colleges & Schools, enabling student registration, administrative updates, and automatic certificate distribution. Their system reduced manual work but was mainly focused on institutional events and lacked interactive community features and seamless registrations.

Another study on an Event Management Web Application using Django shows the need for web frameworks in automating event creation, seamless registration, and organizing. The system focused primarily on the backend of the web application and did not focus on user experience, lacking the design of the web application.

Other related works, including Smart Event Management Systems and web-based project management platforms, highlighted the importance of centralized data, communication, and automation. However, many of these systems lack integrated features such as real-time chat, community groups, notifications, and live events.

Based on this review, it is visible that existing systems either focus on organizing or written event analysis, leaving a research gap in comprehensive platforms that combine event discovery, seamless

ticket booking, community engagement, and real-time chat.

## III. PROBLEM STATEMENT

There are several challenges in the current event ecosystem:

1. Difficulty for user to find relevant and nearby events.
2. Limited interaction between attendees before and after events.
3. Lack of centralized tools for event organizers to control all activities related to events.
4. Minimal support for online and hybrid events.
5. Dependence on various platforms for event registration, communication, and transaction

Such a factor reduce participation, create overhead, and diminish community engagement.

## IV. PROPOSED SYSTEM

The proposed system is a centralized web-based platform designed to simplify event discovery and management while promoting community interaction

1. User Module
  - 1.1. Browser and search upcoming events.
  - 1.2. View detailed event page including venue, speakers, and updates.
  - 1.3. Chat with interested attendees before event.
  - 1.4. Join online event.
  - 1.5. Provide review and feedback after event.
2. Organizer Module
  - 2.1. Create and manage event.
  - 2.2. Schedule events and manage venues.
  - 2.3. Track RSVPs and guest lists.
  - 2.4. Integrate payment gateway for paid events.
  - 2.5. Create community groups.
  - 2.6. Share update and notification.
  - 2.7. Post blogs related to events.
3. System Feature

- 3.1. Event discovery and filtering.
  - 3.2. Built-in chat system.
  - 3.3. Community groups.
  - 3.4. Notifications and reminders.
  - 3.5. Mobile-friendly interface.
  - 3.6. Access to past event highlights (photos/videos).
2. Advanced analytics dashboard for organizers.
  3. Multi-language support.
  4. Integration with social media platforms.

The system architecture follows a client–server model, where user interactions occur through a web interface connected to a centralized database.

## V. RESULT AND DISCUSSION

The proposed system offers a unified solution for both attendees and organizers. The proposed system demonstrates improved efficiency and reduced dependency compared to traditional event management approaches. Key features of the proposed system include integrated chat functionality, community groups, and support for online event participation.

This system also simplifies the work of the organizers, as the process of creating an event, managing registrations, and sending announcements is streamlined and simplified.

Currently, the platform mainly focuses on delivering its core features, but it clearly has strong potential to grow, scale efficiently, and be successfully used in real-world situations.

## VI. CONCLUSION

This paper presented a community event discovery and management platform to meet the shortcomings of the existing event systems. The proposed system enhances the user experience and organizational efficiency by integrating event discovery, management, and community interaction into one platform. It supports both offline and online events while promoting vibrant community engagement for educational institutions, professional groups, and social communities.

## VII. FUTURE SCOPE

Future enhancements may include:

1. Mobile application development.

## REFERENCES

- [1] G. Mair, “An Exploration of Events Research: Event Topics, Themes and Emerging Trends,” *Journal of Event Research*, 2013.
- [2] A. Khan et al., “Event Management System,” *International Research Journal of Engineering and Technology*, vol. 6, no. 1, 2019.
- [3] Nethravathi et al., “Event Management WebApp Using Django,” *IARJSET*, 2021.
- [4] Khalil Pinjari et al., “Smart Event Management System,” Research Paper.
- [5] A. A. Izang et al., “A Web-Based Project Management System,” *International Journal of Advanced Research in Computer Science and Software Engineering*, 2015.