

## Eventia : Event Organizer Android Application

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### Abstract:

This research focuses on developing an Android-based solution to address common issues in managing college events and activities. Many events suffer from poor outreach due to inefficient online registration and ticketing systems, resulting in low attendance. Additionally, students often miss out on event sign-ups due to a lack of timely information about upcoming activities. For organizers, tracking attendance and distributing certificates manually pose challenges, leading to errors and delays. Our event management application addresses these challenges by providing real-time notifications about events, webinars, and club activities, ensuring students stay informed. The app features secure authentication, a real-time database to store event data, in-app messaging for communication, push notifications for event updates, and a payment gateway for ticketing and event fees. The attendance tracking system allows educators and planners to record attendance digitally, reducing errors and streamlining the process. Additionally, we have created a separate co-coordinator panel where coordinators can view the number of entries for each event and the number of participants for each event. Overall, the application offers a comprehensive, user-friendly solution for educators, students, and event organizers to manage and participate in college events more efficiently.

**Keywords**—Android Application, Android Studio, Event Management, Firebase, In-App Messaging, Push Notifications, Payment Gateway.

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### I. INTRODUCTION

An event management application for colleges is a mobile solution designed to assist administrators, event hosts, and participants in planning, publicizing, and managing a wide range of college events efficiently. By digitizing event management, this technology saves time, reduces administrative workload, and enhances the overall experience for both organizers and attendees.

Our event management Android application offers key features such as event scheduling, registration, marketing, communication, and engagement tools. Users can create, manage, and share events, set reminders, and use a real-time calendar for better planning. The app streamlines event promotion and participation by sending push notifications and in-app messages, ensuring students and faculty stay informed and engaged before, during, and after events.

In addition to providing insights and updates on scheduled events, the application allows students

from all departments to receive timely notifications about upcoming activities and sign up on their own before deadlines. The primary objective is to offer a centralized, web-based platform that enhances the traditional method of managing events.

The app includes an administrative module that allows sysadmins or relevant authorities to register the institution, define the nature of activities, and monitor the progress of each event. Administrators can also assign specific instructors to manage events, track event performance, and gather participant data.

Instructors can use the app to perform tasks like tracking student registrations, setting notification deadlines, verifying participant data, and displaying winners in different categories. Additionally, the application simplifies the process of generating and distributing electronic certificates for winners and participants, streamlining post-event procedures.

## **II. RELATED WORK**

From the literature review Obviously, various methods have been used in the past. Many programs are available to solve the problem of managing college activities.

In [1], the authors mainly focus on providing news and events and allowing users to manage their activity participation.

Sai Lakshmi J. [2], published an article on continuously informing students using pop-up messages. It provides information about the latest and upcoming events at the college...

The letter written by Ke Tejasvi [3] evaluates applications by updating students on college activities such as workshops, conferences, and presentations. and provide updates on seminars, etc.

Similar functions by Nikita and others [4] focus on developing software applications that allow you to manage activities, users and all related

aspects.

The author Mail [5]. It focuses on applications which can be used to track college fitness details such as social celebrations, special festivals, college celebrations, studios, project exhibitions and courses.

In this paper, the authors provide a fortunate demonstration of a sports administration platform for [6] with web and Android applications in a university.

In this paper [7], Kumar, Singh, and Yadav explore the development and evaluation of Android application designed for managing activities in educational institutions. They talked about the app's features such as event registration, ticketing, and communicating with attendees. They also present findings from a study of the application's usage. It emphasizes its effectiveness in improving event management processes and improving participant engagement.

In this paper [8] Ekin and Kochak describe the design and implementation of an Android-based event management application for university social events. They discuss various features. of the application, such as creating activities Participant management and real-time communication. It also presents findings from a case study using the application in a university social project. It emphasizes its effectiveness in facilitating event planning and improving participant satisfaction.

Then analyze [9] by Bahadir, Ozsoy, and Eroglu delves into the development and evaluation of Android applications designed to manage activities in sports organizations. It will discuss various features. of the application such as event scheduling, team management, and fan engagement. They also present the results of the app's user studies. with an emphasis on efficiency in improving events and enhancing the fan experience.

In the paper [10], Chiu and Chiang intended to analyze the development of Android applications for managing activities in small conferences. They discuss the app's features, such as event scheduling, registration, and communicating with attendees. It also presents a study of the app's usage. It emphasizes its effectiveness in improving meeting organization and participant satisfaction.

Sr. No.	Technology	Advantage	Limitation
1	Android application	User-Friendly Interface Real-Time Updates: Provides timely information on events. Engagement: Facilitates user interaction and participation.	Device Dependency: Limited to Android users. It may face challenges to attract the user.
2	Android application	Instant Notifications: Keeps students informed about events in real time. User Engagement: Enhances participation through timely updates.	Android Exclusivity: Limited to Android users. Dependence on Notifications: Users may ignore or dismiss notifications, reducing effectiveness.
3	Android application	Centralized Information: Consolidates updates for various college activities in one app. Improved Awareness: Keeps students informed and engaged. User-Friendly: Designed to enhance student interaction and participation.	Limited Audience: Primarily accessible to Android users, excluding others. Notification Overload: Users may experience fatigue from too many updates.
4	Software application (specific platform not mentioned)	Comprehensive Management: Facilitates overall event and user management in one app. Enhanced Coordination: Improves communication and organization of events. User-Friendly Features: Designed for ease of use by both organizers and participants.	Platform Dependence: May be limited to specific operating systems or environments. Complexity for Users: Could overwhelm users with too many features if not designed intuitively. Resource Intensive: May require significant resources for implementation and maintenance.
5	Web or mobile	Holistic Tracking:	User Adoption: May

	application (specifics not detailed)	Monitors various college events and activities in one platform. Enhanced Engagement: Encourages student participation in social and academic events. Organizational Efficiency: Streamlines the management of multiple events and details	face challenges in getting all students to actively use the app. Complexity in Features: Too many functions might confuse users if not designed intuitively.
6	Web and Android applications HTML, CSS, JavaScript for web Android Studio for the mobile app	Simplifies event management for colleges Streamlines registration and scheduling processes Provides real-time updates and notifications Accessible on both web and mobile platforms	Requires regular updates and maintenance Limited scalability for larger institutions or events without infrastructure upgrades
7	Android application	Efficient event registration and ticketing system Improves communication with attendees Enhances participant engagement through notifications and updates User-friendly interface tailored for educational institutions	Potential security concerns with personal data Limited customization for larger or more complex events
8	Android application	Simplifies event creation and participant management Enhances communication between organizers and participants Real-time updates improve engagement and satisfaction Streamlines event planning processes	May require continuous updates and maintenance for scalability Limited features for larger events outside social projects
9	Android application	Efficient event scheduling and team management tools Improves fan engagement with real-time updates and notifications Enhances user experience with streamlined event management	May need ongoing maintenance for feature enhancements Limited customization for non-sports events
10	Android application	Simplifies event scheduling and registration processes Improves communication with attendees	Limited scalability for larger conferences Requires continuous updates for optimal performance

		Enhances participant satisfaction with real-time updates	
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### III. CONCLUSIONS

In conclusion, our aspiring event management application improves on previous systems by offering key features such as secure authentication, a real-time database, a payment gateway for easy registration, and a complaint box for user feedback. The "Contact Us" section ensures smooth communication, and the coordinator panel allows organizers to easily manage participant lists.

These features streamline the entire event management process, making it more efficient and user-friendly. By providing real-time updates and centralizing event information, our app ensures that students and coordinators stay

informed and engaged, solving many of the issues faced in older systems.

Overall, the application makes managing and participating in events easier, more organized, and accessible for everyone

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