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# Fest Organize and Volunteer Monitoring Mobile Application

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***Abstract:*** Fest Organize and Volunteer Monitoring App is a mobile application designed to streamline the process of organizing festivals and events, as well as managing volunteers. The app provides a platform for event organizers to create and manage festival Fest schedules, co-ordinate with volunteers. The Fest Organize app allows organizers to create detailed event schedules, including dates, times, and locations for each activity. Organizers can also assign tasks to volunteers and track their progress in real-time. Volunteers can use the app to sign up for shifts, view their assigned tasks, and communicate with organizers. The app also features a monitoring system that allows organizers to track the performance of volunteers. Organizers can view detailed reports on volunteer activity, including hours worked and tasks completed. This information can help organizers better manage their volunteers and ensure that all tasks are completed efficiently.

***Keywords*** – **Organizer, Event Management, Android, volunteer Monitoring, Firebase.**

## I. INTRODUCTION

The Fest Organize and Volunteer Monitoring Mobile App caters to the unique requirements of event organizers and volunteers by offering a variety of features to boost collaboration and efficiency. It serves as a centralized hub for event planning, scheduling, volunteer management, and communication. Organizers can recruit volunteers, monitor their availability, allocate roles and tasks, and share crucial updates through the app.This app is designed to streamline the planning, coordination, and execution of festivals and large-scale events. By leveraging the latest in mobile technology, we aim to enhance the efficiency and effectiveness of event management while ensuring a seamless experience for all participants. Our mission is to provide organizers with a powerful tool to oversee all aspects of festival planning, from initial setup to the final wrap-up. The application allows for real-time communication, task assignment, and progress tracking, making it easier than ever to manage the myriad details that go into a successful event. For volunteers, this app serves as a comprehensive resource to stay informed, receive instructions, and track their contributions.

Volunteers are the foundation of any festival, and our mission is to provide them with the necessary tools to contribute effectively and feel appreciated for their efforts. Create comprehensive schedules, assign tasks, and monitor progress to ensure seamless operations. Maintain communication with your team via in-app messaging and notifications. Effortlessly register volunteers, assign roles, and track their hours and tasks. Manage essential resources and supplies to ensure nothing is missed. Gather feedback from volunteers to continuously enhance future events. Our goal is to simplify the intricate task of festival organization, making it more manageable and enjoyable.

Managing large-scale events and coordinating volunteers is a complex task that often requires significant time and effort. The Fest Organize and Volunteer Monitoring Mobile Application aims to streamline the organization and management of festivals and events by providing a comprehensive platform for event organizers and volunteers. This application integrates various functionalities such as event scheduling, volunteer registration, task assignment, real-time communication, and performance tracking.

The rest of paper is organized as follows: Chapter 2 deals with the Existing work to know about the existing systems. The next chapter i.e., Chapter 3 deals with the proposed methodology. Chapter 4 deals with the implementation, proposed algorithm of the project. The Chapter 5 deals with the results the project have gained with the necessary screenshots. The report ends the conclusion and with a list of references that have been used.

## II. RELATED WORK

Before the introduction of the Fest Organize and Volunteer Monitoring App, festival organizing and volunteer management were often done manually or through a combination of spreadsheets, emails, and messaging apps. Organizers would typically create event schedules using spreadsheets or word processing software, which would then be shared with volunteers via email or messaging apps. Volunteers would sign up for shifts by replying to emails or messages, and organizers would manually assign tasks based on availability and preferences. Several existing mobile applications focus on facilitating the organization and monitoring of festivals, as well as managing volunteers. These apps typically offer features such as event scheduling, volunteer sign-up and coordination, task assignment, communication tools, and performance tracking. For instance, some platforms allow festival organizers to create detailed event schedules, manage volunteer shifts, and communicate important updates or changes in real-time.

Disadvantages:

- This is inefficient and prone to errors.
- The previous system lacked robust reporting capabilities, making it difficult for organizers to track volunteers.
- Managing volunteers and organizing events manually required a significant amount of time, effort, and resources.

## III. IMPLEMENTATION

The development of the Fest Organize and Volunteer Monitoring Mobile App begins with a comprehensive requirement analysis. This initial stage is crucial for defining the scope of the project, identifying target users, and detailing specific use cases. The process involves conducting surveys and interviews with potential users to gather insights, analyzing competitor applications to identify gaps and opportunities, and determining the key features needed to enhance event management and volunteer coordination effectively.

Following the requirement analysis, the conceptual design phase focuses on creating simple layout designs that illustrate the logical and functional use cases of the application. During this stage, wireframes and flowcharts are developed to depict screens, layouts, and navigation menus. These visual aids ensure clarity in the app's structure and functionality, serving as a blueprint for further development.The next stage is visual design, where the look and feel of the app are developed in detail. This involves creating mockups and design prototypes that help developers understand the app's aesthetic and structural requirements. These visual designs also provide end-users with a preview of the application, offering a clear vision of its final appearance and ensuring that it meets user expectations. Prototyping is the subsequent step, where a working model of the app is built to preview its functionality and gather feedback.

This prototype allows for testing and refinement, making the development process flexible. Adjustments can be made based on customer needs and developer insights, ensuring that the final product is both functional and user-friendly.In the UI/UX design implementation phase, visual designs are converted into functional user interfaces. This stage focuses on implementing the best UI/UX solutions to ensure intuitive navigation and operation. The goal is to enhance usability and provide a seamless user experience, making the app easy to use for both organizers and volunteers.Development and quality assurance is a critical phase where the application is developed by multiple developers and programmers. The team works collaboratively to write code, integrate features, and perform extensive testing. Quality assurance involves rigorous testing to identify and fix bugs, ensuring that the app is reliable, robust, and performs well under various conditions.The publishing stage involves deploying the application and making it available to users. During this phase, the application and its dependencies are hosted and deployed to public app stores such as Google Play and the Apple App Store. The app must meet all submission guidelines, ensuring that it is accessible and ready for use by the target audience.Finally, the maintenance stage provides ongoing support and improvements. This involves monitoring the app's performance, addressing any issues or bugs reported by users, and releasing updates to enhance functionality and user experience. Continuous maintenance ensures that the app remains effective and up-to-date, providing lasting value to event organizers and volunteers.

Admin login:
As soon as opening the application, admin has to login with their login credentials and performs the following operations: Add Staff, Manage Staff, Add Students, Manage Students, View Students Feedbacks.

Department HOD:
In this module, Department HOD can Login into System performs the following operations: Add fest details, manage fest, View volunteer details fest wise and task, View participants details fest wise, Add winners list fest wise, View winner details.

Staff:
In this module, Staff can register and login the system and performs following operations: View volunteer details fest wise and task, View participants details fest wise, Check task status, View winner's details.

Volunteers:
In this module, Volunteer can register and login the system and performs following operations: Apply volunteer, View winner's details.

Participant:
In this module, Participant can register and login the system and performs following operations: View winner's details, apply event and fest, Add feedback.

## IV. RESULTS AND DISCUSSIONS

- After running the App, a page displayed it asks for the login credentials of the admin.
- After successful login, a navigation bar is placed at the top which shows options to add staff details such as department name, faculty name, qualification etc.... Click on add staff details and below tab.
- After this, HOD Login performs following operations as login with valid username and password and HOD can view all the events and the participation of the students along with the volunteer members where can update the task progress status.
- Staff login and perform some of the operation whereas the entering with the user id and password whereas the event details and volunteer assignment based on the requirements.
- The figure it self describes the addition of the fest details by department HOD


Fig 1: Adding Fest Details

- In participants new registration, we can say that the student who are logging in the participants login form if they are new then they might be first register as new and they have to fill the details of the student and after that they want to login with their particular credentials.

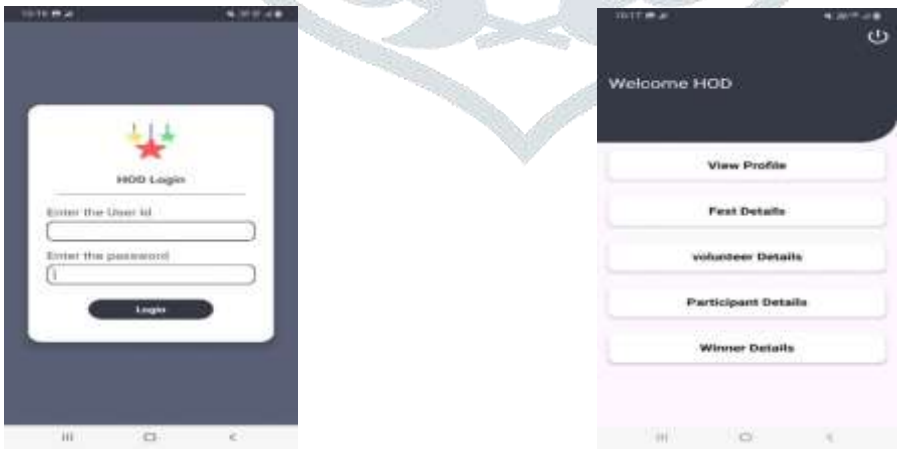


Fig 2: Hod login and Dashboard

## V. CONCLUSION

Fest Organize and Volunteer Monitoring Mobile App project would focus on summarizing its key outcomes, impact on festival organization and volunteer management, user feedback, and future directions. Discuss how the mobile app has positively impacted festival organization by streamlining tasks like event scheduling, volunteer coordination, resource management, and communication among stakeholders. Highlight any specific improvements or efficiencies gained effectively convey the project's achievements, impact, and potential for future enhancements and continued success in optimizing festival organization and volunteer monitoring processes through innovative mobile technology. Fest Organize promises a significant transformation in festival management. By offering a centralized platform for scheduling, volunteer coordination, and performance tracking, it empowers organizers to create seamless events and fosters a more engaged volunteer experience

## VI. FUTURE SCOPE

The future scope for fest organizing and volunteer monitoring mobile applications appears promising, with increasing demand for efficient event management solutions and volunteer engagement platforms. As technology continues to advance, these applications have the potential to revolutionize the way events are organized and volunteers are managed. In the future, these applications can leverage emerging technologies such as AI and machine learning to automate event planning tasks, optimize volunteer allocation, and personalize user experiences. Integration with Internet of Things (IoT) devices could enable real-time monitoring of event venues, significantly enhancing safety measures and operational efficiency. IoT sensors can track crowd density, monitor environmental conditions, and ensure compliance with safety regulations. This real-time data can be analysed and used to make instantaneous adjustments, such as controlling lighting, heating, or even managing entry and exit points to avoid overcrowding. Such advancements not only improve the attendee experience but also streamline the logistical aspects of event management.

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