



E-Events

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ABSTRACT

In this paper, the evaluation of the performance of the E-Events Event Management System is being carried out using Angular, Firebase Database, and Node.js. E-Events is an Event Management System that provides effective management of organizing events in the college. By providing the information of events online not only it effectively manages the events but also it helps in filling the gap of information about the event and also allow the students to present and enhance their skills. It also allows the students to participate easily and reduce the workload of the event organizers.

Keywords— College Event Management, Firebase, Angular, FireStore, JavaScript

1. INTRODUCTION

Events are an essential part of colleges and they are frequently organized. Events help students in building various types of skills and help them to interact with other students. It also helps them to find what they are good at and also helps in building a strong resume. Organizing events requires effective management of events and it also aims to have good participation of the students. To gain maximum participants in the event information should be communicated effectively.

E-Events is an online portal/system that can easily handle the organizing and management of the events in the college. So that the information about the event is easily available to every staff and student in the college. The main idea is to provide information about the events as a single source of the information on the college event management system and efficiently manage the time in organizing the event. As the conventional method is very inefficient and time-consuming. Event information should be easily accessible to the event coordinators, staff, and participants. Events are very essential in building various skills in the students, therefore, maximum participation of students is required. Students are also unaware of the events organized in the college due to the non-availability of information about the events. College event management provides an interface from where the candidate can easily participate in an event. A coordinator can easily manage an event by verifying the participant's payment and also verify the participant's attendance and can also see the number of participants in an event. Coordinators can easily manage, edit, and also be able to assign winners to the event. Thus, the whole management becomes very effective and it reduces time consumption. Admin plays a vital role as it can approve and cancel any event and can also approve coordinators in the college event management system. Admin directly manages all events and has access to update and cancel the event. Moreover, it has access to disable participants, and users account for suspicious activity.

2. Literature Review

The E-Events frontend is made using angular and typescript. Angular is a development platform for building mobile and desktop web applications using TypeScript/JavaScript and other languages. It is used for making high-performance single page web applications. Its backend uses a Firebase server and database. Firebase Database is a cloud-hosted NoSQL Database to store & sync web and mobile app data. Firebase also provides a very secure authentication service for login and signing up users.

For planning, creation, and designing of all kinds of events, the idea is taken from www.eventbrew.co. It allows event organizers to register as a new coordinator who wants to add a new event and then get it approved by the admin, once the account is approved coordinator can add new events and students can participate in the events It provides a great platform to create and manage the events very efficiently.

3. DESCRIPTION AND OBJECTIVES

College management can schedule events online and assign coordinators and volunteers to the event. It helps in maintaining easy coordination between the coordinators of the event. Also, college event management acts as a single source of information about the event. The students who are interested in participating in an event can participate online. The event coordinator creates events online with the help of the web application interface and provides details about the event and verifies payments and attendance of students in events. The students interested in an event can register on the online portal and confirm their participation in the event. Only coordinators and admin can upload information to the website. College event management also provides a facility to upload all information and posters of the event which are being conducted.

3.1 Objectives

The software is developed using Angular as front end and FireBase as a back end in a Web environment. The goals that are achieved by the software are:

- To easily coordinate the event and effectively manage it.
- To reduce the misinformation between the coordinator of the event and the student.
- Online participation of the student on the portal.
- Increase the participation of students.
- Effective management of the participant's fees and participant attendance.
- To reduce the workload of students.

3.2 Feasibility study

Not everything imaginable is feasible, not even in software, evanescent as it may appear to an outsider. Feasibility is the determination of whether or not a project is worth doing.

As per a study, the benefits of participating in extracurricular events help students to gain confidence and help them in maintaining a good character. It also helps the coordinator to gain leadership quality. Thus, providing an online portal for management of events will lead to an increase in the number of participation of students and will ultimately lead to the enhancement of skills in students.

4. DETAILED DESIGN

The system web application will run on the cloud-based server which we will use as a Platform as a Service. We will be using Firebase Hosting as the platform to deploy our web application. The client application will run on the user mobile and desktop browser. The client application will need an internet connection for the establishment of a connection with the web server and database server. NoSQL database will be used to order all the data related to the proposed system. Firebase Firestore will be used as a database server to store the data and to fetch data from the database. Firestore is a NoSQL database that is used to store data in the form of collections and documents. The following image shows the architecture design of college event management.

This product contains three major Users. First, the admin will allow the user to access the application by giving permission rights and access control. Admin is also able to approve and cancel the events. Second, the coordinator/staff will have the right to see the events listing and they can post their new events as well as manage them very effectively. The coordinator can also manage, edit the existing details of the event, verify payment and attendance of each participant, and assign the winners of the event. Third, the End User i.e. Students/Participants can see the list of the events and schedule of the event.

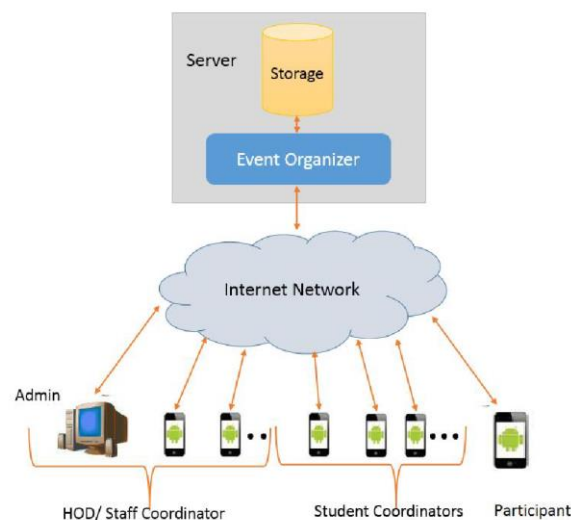


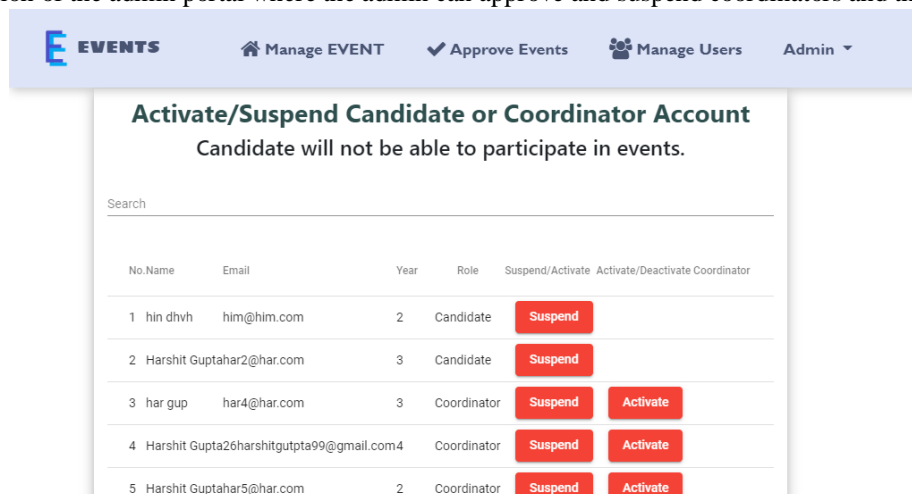
Figure 1. The architecture design of college event management.

5. Implementation Results

The research and designing of E-Events event management web application using angular and firebase NoSql cloud database.

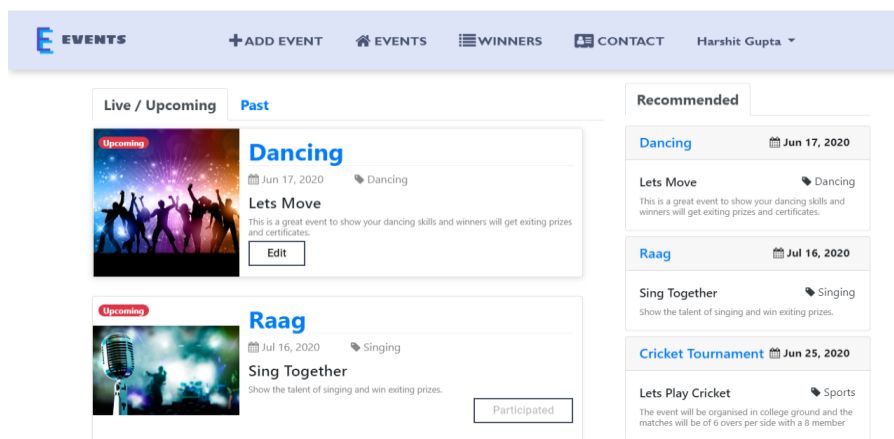
5.1 Implementation 1

This is the implementation of the admin portal where the admin can approve and suspend coordinators and their events.



5.2 Implementation 2

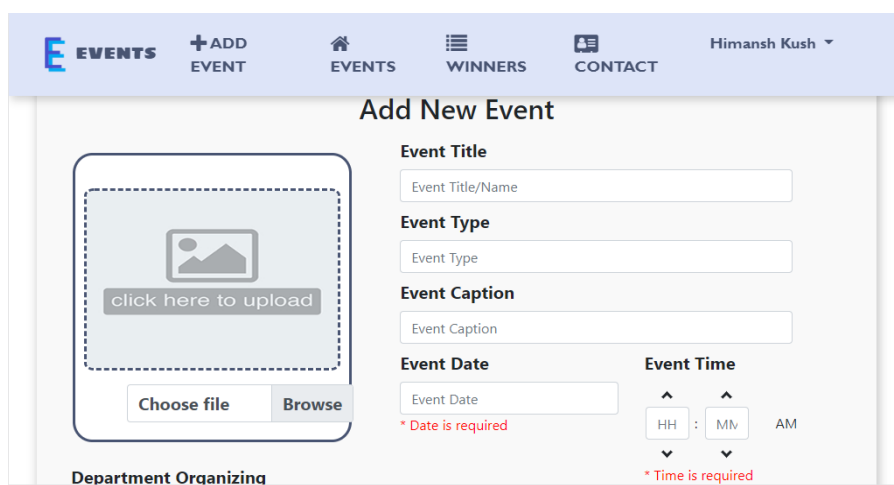
This is the implementation of the event page where all the events are displayed.



5.3 Implementation

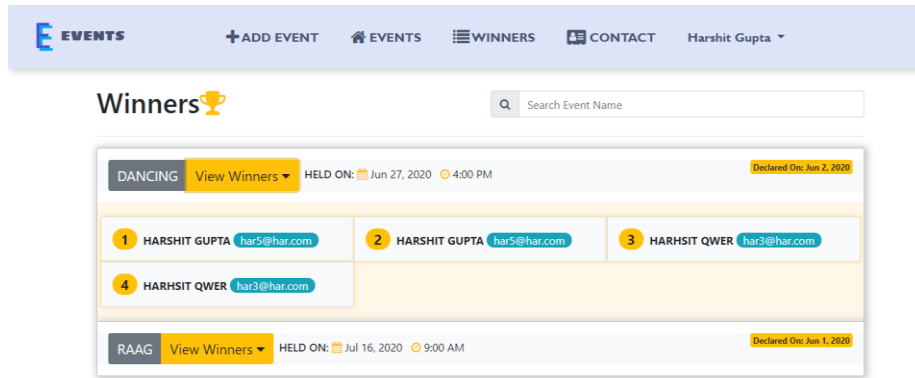
This is the implementation of the event form in which the coordinator will enter the details of the event.

3



5.4 Implementation 4

This is the implementation of the winner's page where the winners of the events are displayed.



6. Conclusion

Events are an essential part of colleges and are frequently organized. The current system is completely manual for event management. To achieve maximum participation of the student in the events it is required to fulfill the loopholes in the current event management system. Current event management lacks effective communication between the coordinators and participants. Students are unaware of the upcoming events and have no information about upcoming events. There are no records that can be used in the future. The E-Event College Event Management system helps in automation of the event management system where students can easily participate in events and the coordinator can easily verify payment and attendance of the participants. A coordinator can easily log on the page and perform the operations they can do. Thus, college event management helps in the effective management of the events, it provides easy coordination between coordinators and participants and it also reduces the workload of the coordinators.

It will be useful for communicating information about the events with staff, coordinators, and students. The coordinator can create and edit events on the portal and also be able to verify the payment and attendance of the participants. The coordinator is also able to assign winners to each event which can be shown on the college portal. Students and coordinators can easily register on the proposed system and then log in to perform their desired operation on the portal of the college. Students can easily get information about upcoming events from the portal. Students can easily participate in each event. Admin has access to all events and can approve, cancel, and edit events on the website portal.

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