

**A Synopsis
on
[IT1808] PROJECT
Final Year B. Tech. I.T.
“Event Awareness Android Application”**

Submitted By:

1. Mayuri Mahajan (17141120)
2. Ankit Sonawane (17141232)
3. Bhagyashree Pawar (17141156)
4. Urmila Salke (18143183)

Under guidance of:

Prof. N. M. Mule

Prof. P. D. Sheth



Government College of Engineering, Karad.
(An Autonomous Institute of Government of Maharashtra)
Department of Information Technology
Academic Year 2020-21 (Semester-VIII)

ABSTRACT

Event awareness application is an android application which is a special type of Event-based mobile application that has common features. It is use to allow any smartphone user to be aware about events. The use of android and machine learning algorithm integrated with context-awareness ability can be helpful for awareness of social events like bhajan, kirtan, blood donation camp, yoga event etc. This project first provides review of the event awareness application and the basic principles and architecture of event awareness application. Next, event awareness application with mobile contained technology elements, such as Android Studio ,Firebase database , Natural language processing (NLP) and machine learning algorithm, are presented. By combining the feature of Android studio with firebase database and machine learning algorithm provide service to people about awareness of events organized in their soccity. The main goal of this application is to present a software application for launching real-time event communication between the people. So that people are aware about the events and they can easily participate in those events. This application is based on the Android with backend provided by Firebase.

1. INTRODUCTION

In our daily life, the events around us play a very important role. But most of the time people are not aware about the organized events in our surroundings. Those people are aware about events which are nearby their location or the people which are related to that work. There are hundreds of Blood donation camps, Bhajan, Kirtan and Yoga events etc held daily around us. They can be dedicated to different causes and involve people of various demographics and interests.

There are many social platforms available over the internet where we can post our event information. But this platform has some advantages and disadvantages. In particular, Many people, children get addicted to this platform. These platforms are open source and anyone can make posts. It contains all types of post like educational post, news post, Viral giveaway post, testimonials and product review post, Sneak peek post, Shoppable post. This creates lots of traffic over the internet due to the fact that people are not able to see all posts. They spend most of the time on mobile. So we try to develop an android application which provides an online platform where we can post event images and descriptions.

Event awareness application is a special type of Event-based mobile application, which allows any smartphone user to know about events organized nearby areas. We try to maintain the information of the events like Yoga events, Blood donation, Bajan , kirtan events, Games, Singing organized in the society. These event planning apps have proven to be powerful means of engaging an audience, delivering better experiences, as well as optimizing efforts as an organizer.

In the Event awareness application, there are three logins - admin, event management head and people. To do the post of event first Event management head have to make the payment then they can put their event images and information in the application with the help of admin. If an admin gives permission to post then that event is posted in application, and then notification of that event goes to registered people and they are aware about this event.

For some events seats are limited or there is a need to register for the seat so there is an option for registration. Also, we can provide a feedback option for people in the text format which is useful for event organizers to take reviews of people.

To develop this application we use technology like Android Studio, Java, Machine Learning, Natural Language Processing, Event feedback dataset, Firebase Database. The Android Studio is launched by Google for building the application for the Android Operating System. The official language for android development is Java. Using android studio we can build the apps for Android Phones, Android TV.

Machine Learning is a subset of Artificial Intelligence. All the machines have the computation power, they do not have the decision making power. For that we need to train the machine using past data so It will make the correct decision. It will be used to train the sentiment analysis model.

NLP is the part of Artificial Intelligence which allows machines to break down and interpret human language. Natural language processing helps computers communicate with humans in their own language. It is useful to do the sentiment analysis.

For the development of mobile application Java language is used for writing business logic and XML language is used for design the User Interface. Firebase is the realtime database that assists software developers in building the realtime collaborative application.

Event Awareness Application will provide the online platform to make the awareness between the people about various events like Yoga, Bhajan , Kirtan , Blood donation camp etc. Hence this will be very useful for people.

2. MOTIVATION

- As the Yoga event has many advantages like it improves strength, balance, flexibility. It helps with the back pain relief. Yoga benefits for the heart . So it is necessary that whenever the yoga event is organized in our nearby place people must attend that event.
- The purpose of organizing a blood donation camp is to motivate people to donate blood and social works.
- The joy and contentment derived from listening to Bhajan and kirtan are unparalleled. Not only Listening and singing of Bhajan impart serenity and peace of mind but also able to transform our thoughts.
- As events like the Yoga event, Blood donation, Bhajan, Kirtan event have many advantages so it is necessary that people are aware about these events.
- To spread the event awareness between the people we try to develop this application.

3.PROBLEM STATEMENT

Design and implementation of the Event Awareness android application for People using machine learning algorithms and Natural language processing.

4.OBJECTIVES

- To study and review the existing system.
- To design an android application of Event Awareness app.
- To implement an android application of Event Awareness app.
- To implement sentiment analysis of event feedback.

5 METHODOLOGY

Step 1 - Literature Survey

To study current trends of the app and how to implement new features in the app.

Step 2 - Design register and login page

In this section we can create a register and login page for users.

Step 3 - Provide Payment Option

Event organizers pay some money to post their event in our application so this option is given under this.

Step 4 - Design page for event image and information

Event organizers can put their event image and information with the help of admin.

Step 5 - Natural language processing for sentiment analysis

For feedback options, we can use natural language processing. By using this people can give their feedback in a text box.

Block Diagram -

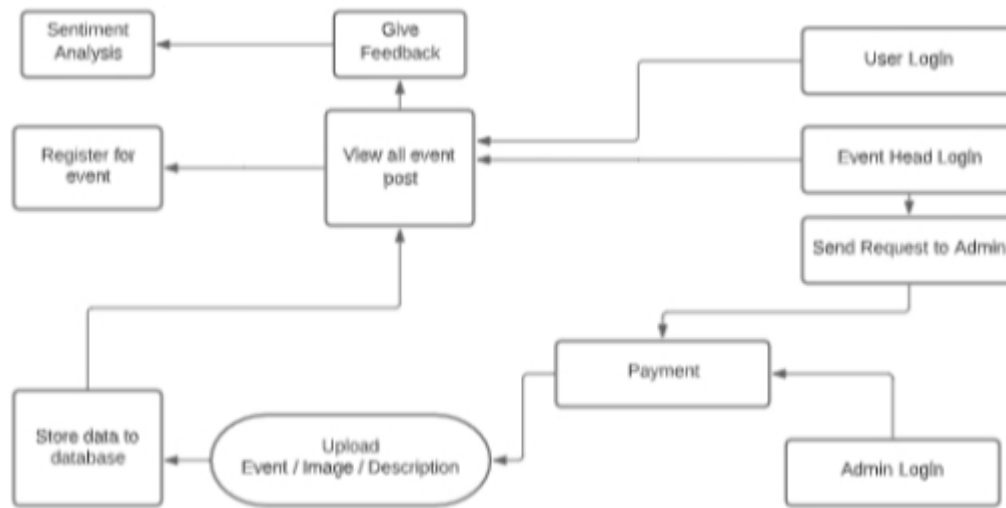


Fig: Event Awareness Application

Form above fig. Event awareness applications contain three domains - admin (Nagar Panchayat), event organizer and people. Event organizer can put their event images and information in the application with the help of admin. Put events in application event organizer pay some money to admin. If an admin says ok then that event is posted in application, and then notification of that event goes to registered people and they can view information about the event. If they are interested in that event then they register if seats are limited. After completing the event people can give their feedback for that we use NPL.

6. TECHNOLOGY STACK

Android Studio

Android Studio is the official integrated development environment (IDE) for Android application development. It is based on the IntelliJ IDEA, a Java integrated development environment for software, and incorporates its code editing and developer tools. We will use Android Studio for android application development.

Java:

Java technology is both a programming language and a platform. The java programming language is a high – level language that can be characterized as high performance, multithreaded, dynamic etc. Due to its many features android studio uses java for android development. We will java for the android development.

Machine Learning:

Machine learning is the field of study that gives computers the capability to learn being explicitly programmed. ML is one of the most exciting technologies that one would have ever come across.

Natural Language Processing

It is a branch of artificial intelligence that helps computers understand, interpret, and manipulate human language. We will use NLP for sentiment analysis. Sentiment analysis is often performed on textual data and product sentiment in customer feedback, and understand customer needs.

Firebase Database

Firebase is considered a web application platform. It helps developers build high-quality apps. It stores the data in JavaScript Object Notation (JSON) format which doesn't use queries for inserting, updating, deleting or adding data to it. We will use a firebase database for backend of a system that is used as a database for storing data.

Minimum Require JDK version 8

The Java Development Kit (JDK) is a software development environment that offers a collection of tools and libraries necessary for developing Java applications. We will use the JDK to convert our source code into a format that the Java Runtime Environment (JRE) can execute.

7. HARDWARE AND SOFTWARE REQUIREMENTS

Hardware Requirement

- Operating System (Microsoft Windows 7/8/10 – 32 or 64 bit, MAC, Linux)
- RAM - 4 GB RAM minimum , 8 GB RAM Recommended
- Free Digital Storage - 2 GB of available storage minimum, 4 GB Recommended

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Software Requirement

- Android Studio
- Java
- Minimum Require JDK version 8
- Firebase Database
- NLP
- Machine Learning

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8. CONCLUSION

This is an innovative android application which spreads the information of events which are organized in surrounding areas so that people can gather together and celebrate events together with more interests and also we can provide a platform for event organizers to advertise their events. By using this application people can easily attain the events in nearby areas.

8. REFERENCES

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APPROVED LETTER



Pranali Sheth 12:36 pm

to me ✓



Approved.

Thanks & Regards,
Ms. Pranali Sheth (M.Tech:CSE-IT)
Assistant Professor
Department of Information Technology
Government College of Engineering, Karad

On Fri, Apr 23, 2021 at 8:22 AM Mayuri Mahajan
<mahajanmayuri353@gmail.com> wrote:

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