

Mobile Based Event Initiator

Nirmita Shah¹, Antara Dighe², Indu Anoop³

BE Student, Information Technology, Vidyalankar Institute of Technology, Mumbai, India^{1,2}

Assistant Professor, Information Technology, Vidyalankar Institute of Technology, Mumbai, India³

Abstract: Mobile based event initiator is an android application used for sending alarm remotely. This application utilizes the Short Message Service of the portable device. The SMS event will trigger an alarm on phone irrespective of volume settings. It is an alarm or event forwarding service with added feature of location based time scheduler. This application allows third party to remotely trigger an alarm on phone depending on individual location. This application can propagate the information of location to the right users at right time and right place by using alarm. It reminds the user about important event in the future. It allows the user to send reminder text along with alarm. This mobile application focuses on improving usability for users.

Keywords: Alarm, Remotely send, Event, Location, Android.

I. INTRODUCTION

The Basic idea of this project is to provide easiest way for everyone who tends to miss important events or appointments. This application aims to provide solution to smart phones a new way to learn and use their power to receive important notifications by SMS service. Also helps in sending location based alarm by providing destination location in group. This application calculates the time required to reach from source to destination and according to that set the alarm.

This prototype creates a location based alarm service which enable the users to initiate an alarm whenever and wherever it is needed thus improving the quality of life. This mobile application focuses on improving usability of users.

II. RELATED WORK

There exist a number of alarm based systems that can automatically generate alarm by using mobile phone. Examples of such systems are described in the following links [1]:

Wake App: Wake App is a geo-located alarm that goes off when the user is about to arrive at the selected destination. Once the user select stop on the map, the map closes and the application goes into the background periodically user location using the device's GPS sensor.

When the user bus enters within a pre-configured radius from the stop the user is supposed to get off (default is 1000 meters), the alarm plays a ringtone of user choice. This application is used for train or coach travelers.

Pros: Straightforward and simple to use, configure custom radius around destination within which the alarm will go off, automatically increase alarm volume if set low and
Cons: Can't save location for later use.

Bus Snooze: Bus Snooze is a GPS Location based alarm clock which will wake the user up when the user arrive at the desired location. The application allows the user to set location based alarm or time based alarm or both.

The combined alarm will sound whichever arrives first – time or destination. The location tracking is done using GPS as well as the user's network provider's location.

Pros: Uses both GPS and network location, configure custom radius around destination within which the alarm will go off, save location for later use and

Cons: Can only save two location in free version.

III. PROPOSED SYSTEM

Unlike traditional way here we are going to use power of smart phone, in this application we are providing some easiest ways to make use of SMS to send an alarm. There are some applications present on play store which will send an alarm but they do not provide the functionality of creating a group for sending alarm and also automatic generation of SMS based on location.

Thus the proposed application will help to resolve such issues. The application will also help the user to not miss their important event by letting other people to contact you just with an SMS alarm!

IV. FEATURES OF PROPOSED SYSTEM

A. Mute Mode Event Initiator:

The alarm will ring irrespective of volume settings i.e. the phone will ring even if it is in silent mode.

B. Create an SMS alarm group:

This application will allow creating group for sending group alarms.

C. Time Setter Module:

This application allows setting different time according to schedule or event.

D. Enable/Disable alarm when needed:

This application also allow the user to disable the alarm according to choice.

E. Location Based Service Module:

This application gives the feature of getting the location of individual for setting the alarm.

F. Distance to destination to trigger the alarm:

This application calculates the distance to destination and automatically creates an alarm.

V. METHODOLOGY

Selection of Appropriate Technology

The system has used Android Development Tool plugin, Eclipse, Sun JDK to develop the application. Android platforms give a world-class platform for creating applications for Android users. It also gives tools for creating applications that look great and take advantage of the hardware capabilities available on each device.

A. Android

Android is a Linux-based operating system designed primarily for touch screen mobile devices such as smart phones and tablet computers. It is an Open Handset Alliance's (OHA) mobile operating system. This application platform is very similar to Java SE.

The Android SDK is available for Windows, Linux and Mac OS X, free of charge. Developers can use popular Java development tools like Eclipse. Existing Java SE based code can also be ported to Android with relative ease, as long as it does not interface with any of the packages that have been removed.

With the Android platform recently becoming very popular, this application improves usability of users.

The user interactive design is simple and intuitive so that most users can easily use it for the first time.

B. SQLite

Android provides several ways to store user and application data. SQLite is one way of storing user data. SQLite is a very light weight database which comes with Android OS. The android database and android. Database SQLite packages offer a higher-performance alternative where source compatibility is not an issue.

This Project is based on Incremental model as it is more flexible and less costly to change scope and requirements. This model is easier to manage risk because risky pieces are identified and handled during it's iteration.

C. PHP-MYSQL

Android provides the way to store user data using PHP-MYSQL. PHP is server side scripting language used for database connectivity. It provides easy way to implement database.

MYSQL is used as a database at the web server and PHP is used to fetch data from the database. Our application will communicate with the PHP page with necessary parameters and PHP will contact MYSQL database and will fetch the result and return the results to us.

VI. ACTIVITY DIAGRAM OF THE SYSTEM

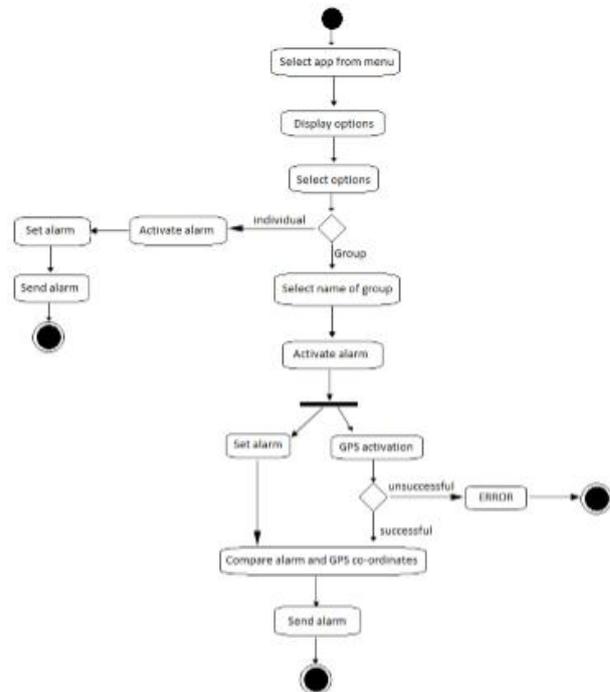


Figure 1

VII. SYSTEM OVERALL ARCHITECTURE

Figure 2 shows the overall architecture of mobile based event initiator system. It shows the actions that a user could reasonably expect to be able to perform from the mobile device user software. Home screen provides four options: "Select Contacts", "Create Group", "Put Text" "Set Alarm", "Send". Select contacts and create group as it name implies used to select and create group. Set Alarm is used to alarm which enables the alarm and send. User receives the alarm with SMS and whatever time we set in alarm at that time it will trigger.

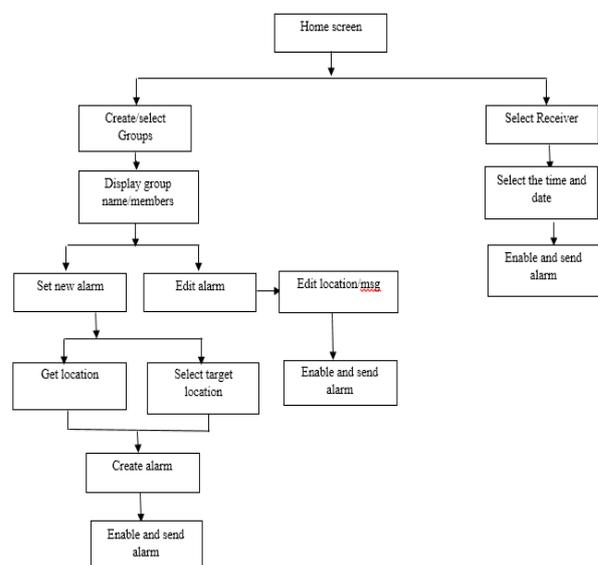
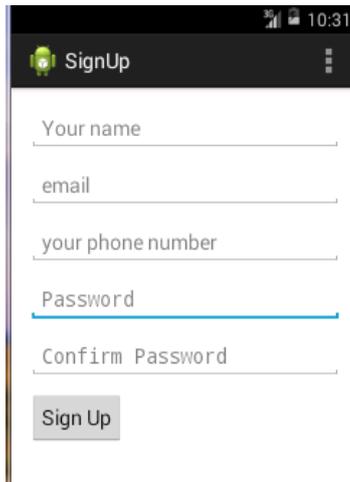


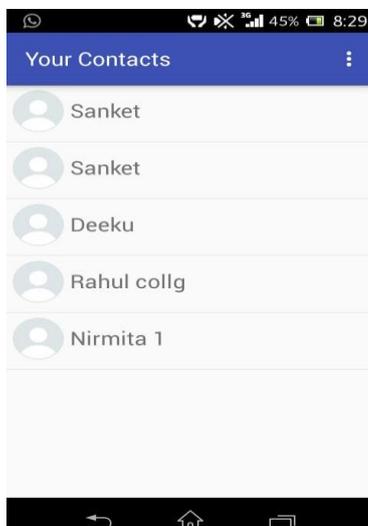
Figure 2

VIII. IMPLEMENTATION

1. First sign up in the Application to send the alarm



2. Once you sign up in android application, it will display all the contacts of registered user.



3. Write SMS and select date and time as below:



Figure 3

4. After selecting date and time, click on Done. It indicates that alarm has been sent to the receiver and gets the Notification that “Alarm Received”.

IX. CONCLUSION

The final system allow user to send alarm remotely from one mobile device to other mobile device. Based on the location of user, alarm will ring automatically and display remainder message when the user reaches the target location. The system will also integrate additional settings into the system. This mobile alarm service helps the user to inform about important event or appointment.

X. SCOPE

The project is basically an android application utilizing the various functionalities of a short message service SMS. This android application will be used by professionals, students as well as family members to remotely forward an event to setup an alarm. This application is perfectly suited for emergency responders, rescue groups, first aid organizations etc. Includes functionalities like creating a group, locating your current location, automatic SMS generation for all members belonging to the group. Application triggers on an incoming SMS according to how you set up the event. This is the standalone application which is compatible with android operating system. All these functionalities would make us achieve our goal of “Mobile based event initiator” which would help improving usability for users.

FUTURE WORK

1. Scope of Future Application

The future application of this system is to include voice message. Voice message enhances the usability of the application. Currently, system ringtone is used as the default ringtone in the application. However, choice of ring tones could be provided from the audio gallery, since it has volume control and vibrates mode control settings.

ACKNOWLEDGMENT

We would like to thank our project guide and friends for their valuable suggestions that helped us to complete the project.

REFERENCES

- [1] “International Journal of Advanced Research in Computer Science and Software Engineering/Location Based Reminder: An Android Application”, Kushal Singhal, January 2015
- [2] “Location Based Services on Smart Phone through the Android Application”, Prof. Seema Vanjire, January 2014
- [3] ”Location Based Reminder Using GPS For Mobile (Android)”, Priyanka Shah and Ruta Gadgil, May 2012
- [4] “Time and Location Based Reminder System”, Prof. P.R. Devale
- [5] <http://www.instantfundas.com/2011/11/3-location-based-alarms-that-wake-you.html>, accessed February 2013.