

(Embat Women) - Enhanced Mobile Based App For Trichy Women

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Abstract- *EMBAT-women is an Android based application especially designed for Trichy women development. The first mobile phone was invented in 1973 by Motorola. Android is an open source Linux based system developed by Google, and primarily aimed at mobile handsets and other portable devices. Android provides a java based development platform for applications. The purpose of developing a women application is to use it anywhere and anytime to gain knowledge. The application is very effective to be viewed in a mobile phone and using several applications for various reasons can consume a lot of memory. This women application provides a wide range of useful information which is split into several functionalities. These include: Career, Safety, Beauty, Cooking, Health, Games, New collection, Fitness and Google map. In particular it is specially designed for the Trichy women. This application mainly provides details for their feature and for safety. This application allows to know nearby places like as restaurants, hospitals, ATMs and shopping mall, post offices, pharmacies from current place and also get directions using Google Map. Notifications will be given for government exams, ideas for self-employment and technology devices, loans and scholarships via FCM (Firebase Cloud Messaging). Firebase Cloud Messaging (FCM) provides a reliable and battery-efficient connection between your server and devices that allows you to deliver and receive messages and notifications on iOS, Android, and the web at no cost.*

Keywords- Android Studio, Smartphone, Geny-motion, Firebase Cloud Messaging, Google Map, Career Development, Emergency alert sms

I. INTRODUCTION

EMBAT women application is designed to provide safety and notification to user(women) main purpose of this application to provide the exam notification, awareness on the time of critical situation for women.

To give notification to the application from server as firebase. Firebase is a technology that allows us to make web applications with no server-side programming so that development turns out to be easier and quicker.

It also supports the iOS, web, OS X, and Android clients. Applications using Firebase can control and use data, with no need to think about how data will be stored, and synchronized across variety of examples of the applications in real time.

Firebase Cloud Messaging (FCM) provides a reliable and battery-efficient connection between your server and devices that allows you to deliver and receive messages and notifications on iOS, Android, and the web at no cost.

The SMS and Email contains your message and your current location. It sends emergency alert SMS from your app with current location to the saved contacts and also sends mail to the saved mail address via Gps. This application available alarm and siren facilities for critical situation to alert public places.

Existing System

There are millions of android app available in Google play store. These are categorised to Android wear, Art & Design, Beauty, Education, Entertainment, Games, Family, Finance, Food, Google cast, Health and fitness, libraries and demo, life style, maps and navigation, medical, music and audio, news and magazines, parenting, personalisation, photography, productivity, shopping, social, travel and local, video player and editor, Tools, sports, weather.

II. RELATED WORKS

1. Application for Women Safety

In this paper presents an alert system for Women safety detection using common commercially available electronic devices to both detect the problem and alert authorities. Data from the application is evaluated with several threshold based AES algorithms

2. Implementing Smart Home Using Firebase

This application shows the auto brightness and temperature with regard to outside temperature and light

intensity. On clicking the button in android application it immediately reflects in the firebase(database) there is status for every action in the firebase.

Suppose if the user turns the LED button on in android application it immediately reflects the firebase LED status to TRUE otherwise FALSE.

3. Development of a Location-Based Approaching Notification system using Android Platform

These apps are becoming increasingly everywhere in our daily life [1]. Currently, categories of mobile applications include: games, banking, travel, social networking, location based apps, fitness, and medical apps. Location-Based Services (LBSs) are services that make use of the geographic location of an object. LBSs have two major types: Position Aware Services and Location Tracking Services

4. A Women Secure Mobile App For Emergency Usage(Go Safe App)

The good way to reduce chances in becoming a victim of violent crime (robbery, sexual assault, domestic violence) is to identify and call on resources to help out of unsafe situations.

III. PROPOSED SYSTEM

The system is proposed to provide,

- Skill development
- Location based service
- Safety
- Games
- It gives notifications for Career guidelines to the users from server using FCM(Firebase Cloud Messaging) like
 - Self-Employment
 - Exams
 - Loans and Scholarships

This application is specially designed for the Trichy women.

IV. ARCHITECTURE

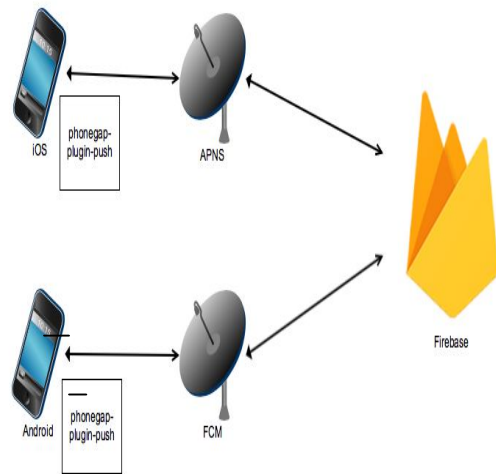


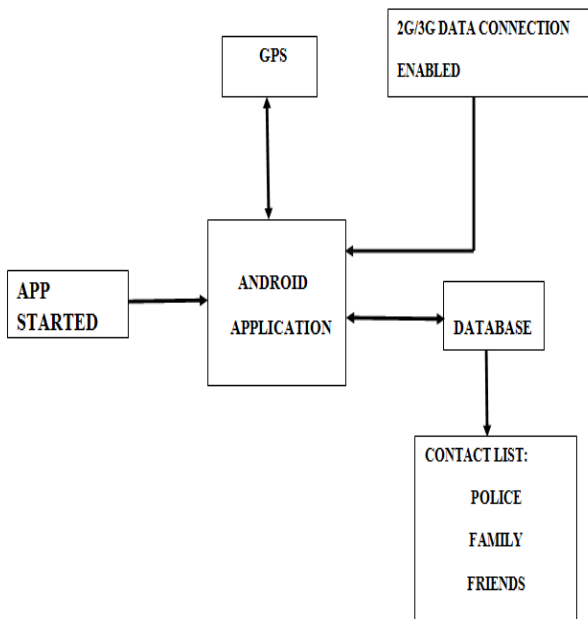
Figure 1: Firebase with Android and ios



Figure 2 : FCM(Firebase Cloud Messaging)

The Architecture of the “Enhanced Women app” above Description, We can receive the notification from firebase console using FCM(Firebase Cloud Messaging) to the multiple real android devices.

BLOCK DIAGRAM



V. RESULT

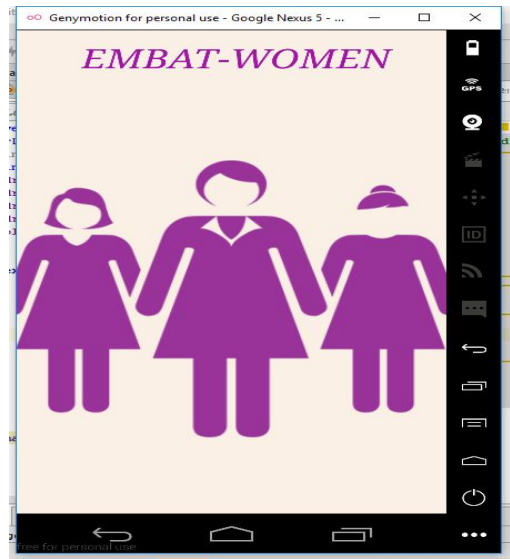


Figure:1 Splash Screen Home Screen of the App

SYSTEM IMPLEMENTATION

It is an android app with no cost. Several IDEs can be used for development of android app most common is Android Studio which is open Source with in build packages, which is easily accessible and available to all.

OBJECTIVE

The main aim of this app is to make the women safe and shine in the current environment. Getting updated information about the recent happening in the society for their bright future and get Notification about career from FCM(Firebase Cloud Messaging) server.

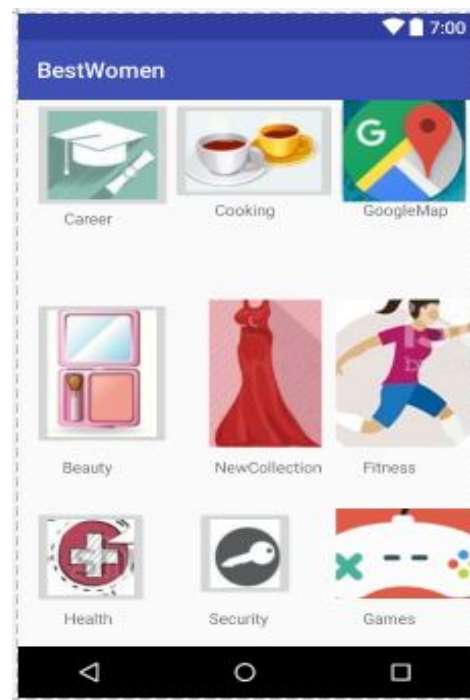


Figure:2 Menu of the application

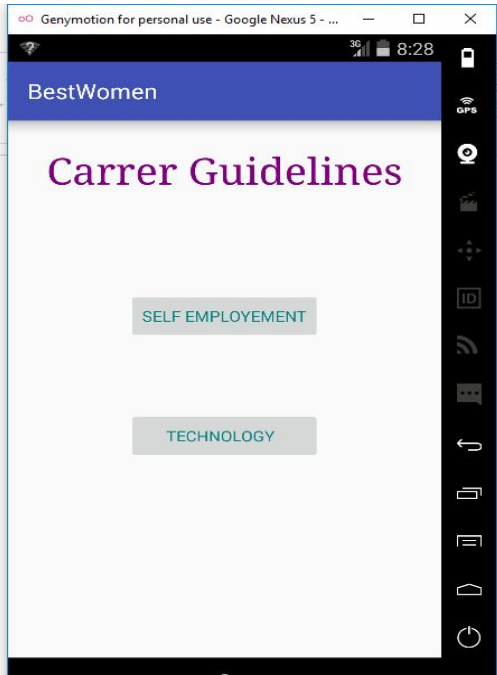


Figure:2.1 Menus in Career

We can either select self-employment option to get details about self-employment or technology to get technical details.



Figure:2.1.1 Jackery in Tech device

One of the samples from technology in carrer guidelines



Figure:2.1.2 Freelance Writing in Self-employment

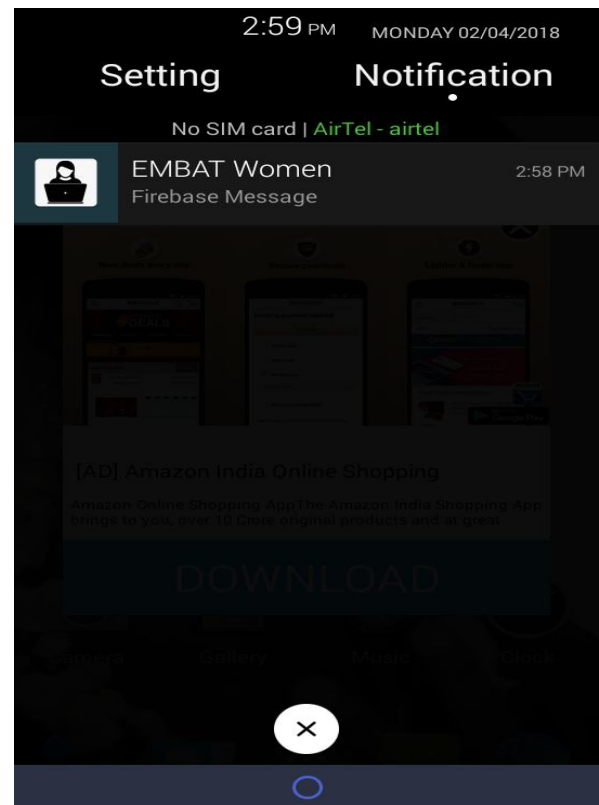


Figure:3 Notification from FCM in Real Device

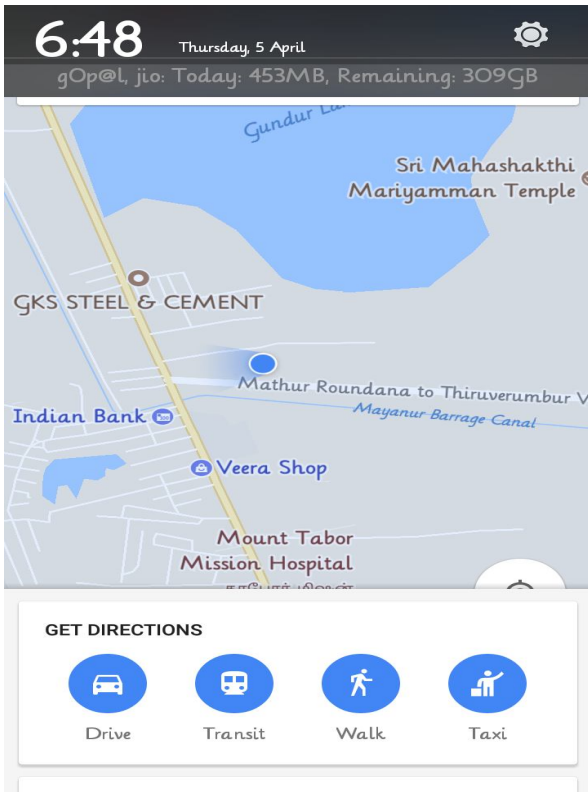


Figure:4 Location Based Service

To search nearby places such as shopping mall, atms, temples, hospitals, petrol bunk

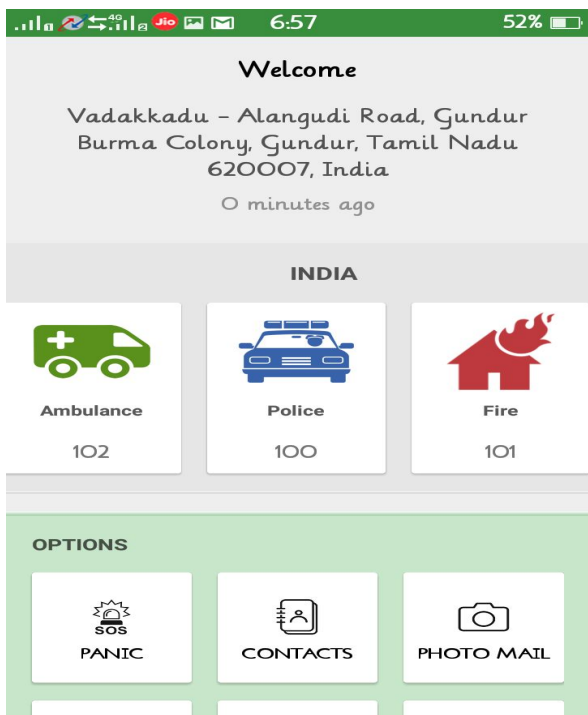


Figure 5 Emergency Alert Sms and Email

User can either select emergency services like ambulance, fire, police to make immediate call to them. Or select advanced options to send message the saved contacts along with their current location.

VI. CONCLUSION

“EMBAT-WOMEN” is a very useful application that helps the women to get more information about the society and the career. And also get frequent notifications about jobs and updated technology information from FCM(Firebase Cloud Messaging) to app.

REFERENCES

- [1] HOLLABACKI,Android App developed by Emily in the May 2010
<https://play.google.com/store/apps/details?id=org.ihollaback.android&hl=n>
- [2] VITHUI,Android App developed by Indian Crime Television series —GUMRAHI,2011
<https://play.google.com/store/apps/details?id=com.startv.gumrah&hl=en>.
- [3] Android App developed by Canvas MTechnologies, 26 June,2013,—FIGHTBACKI,
<http://www.fightbackmobile.com/welcome>.
- [4] Android App Developed by Guardly Corp., 28 January,2014,IGUARDLYI,
<https://www.guardly.com/>.
- [5] IBSAFE-PERSONAL SAFETY APPI, Android app developed by Bipper. Inc., March 6, 2015.
<http://getbsafe.com/>
- [6] ISAFETIPIN-COMPLETE SAFETY APPI, an Android app developed in January 21, 2015. <http://safetipin.com/>