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Emergency Services Using Android

Chethan H B1, Deepika K2

¹PG Student, Master of Computer Applications, RV College of Engineering, Karnataka, India ²Assistant Professor, Master of Computer Applications, RV College of Engineering, Karnataka, India

Abstract - The Detection of Emergency Services Using Android is an Android application which locates and displays the available Hospitals, Police Stations, Fire Engine Departments and Fuel stations with in a radius of 5 km to the user location and also provides the information like contact number of a particular Hospitals available in that area which helps to contact during emergencies, since it is an Android application it is easy to use. Categorization also helps to search required emergencies when needed can be fond out without more complexities.

The proposed project helps to identify the nearest Emergency services. Most of the mobile users in the current world using android phones, so that it can be useful for many of the users and during emergencies it is not necessary to go to browser to search, it can be easily accessed by using this application. In India around 77% of overall population are android users And this application works at least of 90-95% of smartphone users.

Key Words: Ease, Hospitals, Categorization, Police Station.

1.INTRODUCTION

Emergency Services Using Android is an Android application which helps in finding the location of emergency services like Hospitals, Police Stations, Fire Stations and Fuel Stations with in a radius of 5km from the user location. There are applications available for showing the location of these services but we need to type the services which ever we want. In this application it is simplified in such a way that the user can access the available and required services which is displayed as a list based on categorization of the services and user can use any of the listed services and can opt whichever is near to the user.

Android is developed mobile operating system by modifying linux kernel vesion and other open software.it is designed for touchscreen systems like mobiles and tablets. As mobiles and tablets are portable and easy to use systems they are widely used all over the world, this made immense growth in development of android applications. Gaming applications and applications for online transactions and navigation applications are widely used.

Now a days as software growth is increasing people used to enjoy the weekends by trekking this made navigation applications to use more.in the same way emergency services are also needed as precautionary measures while going somewhere. As navigation systems having this features we need to type the Emergency services whichever we want or we need to speak out to access the services but in this application it is simplified in an easier way such that the services are categorized into different segments. Service which is required by the user can be accessed quickly as it is categorized and which shows the available locations to the user as a list and user can select the nearer location

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once the user selects a particular location it is directed to the maps to show the way to the service required by the user

Google maps provides one of best way of accessing any of the services which a user required at a particular time and provides the directions to the required services. It provides major service and not categorized into segments as it is vast. We need to type or speak for each and every service as at least it takes 5 to 6 seconds for normal smartphone users and it is not limited to any of area it displays services as a list which is not limited and it shows overall available services.

Based on this the application is developed to make user interaction for emergency processes to make simpler to find them easily with in a seconds to find a way to the location and It will not be clumsy as it is limited to a radius of 5km from the user location.

2. PROBLEM DEFINITION

Emergency Services Using Android is an Android application which is used to simplify the existing Navigation applications to make it as user friendly and easy to use.

Existing applications have the tendency of show overall service to the users without any categorization. User need to do search process for the services required other methods like other methods like voice recording options are available but takes time to do the process.

Proposed System has features like categorization which helps users an easy way of touch and access the most required and emergency services which are needed by the users are classified into different sectors. Due to classification there is no need of user to type the services it can be accessed quickly by the interface just by clicking on it and reducing the radius of distance to access the location



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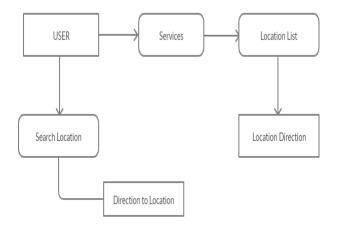
available services also helps to display the reduced number of options and which do not make user to feel clumsy and search bar is also provided in the application which can be used to search other locations and other overall options which are provided by the maps. So there is no need to move to other applications for other options, other applications are also can be searched from the same application.

In the proposed system user needs to register an email verification will be done before login then user can use these services for use, services here defined are used during the urgency or critical conditions and also used as normal service which are required when something happened, due to individual categories it helps user to quickly access the requirement.

Once user registered successfully can access services and search is a special option to avoid moving to other applications for services other than the emergency.

2.1METHODS

The Process consists of Registration, once the user is registered successfully with Email verification by using the same mail user can login, after logging in user can search for any of the services whenever needed, services are like hospitals, Police station etc.. list will be displayed when user selects location and user can select any location and can get directions to that location by using Google API's.



Tools and Technologies used

Platform: Android Studio

Framework: React-native

Language: JavaScript

SDK's: Google SDK's

Modules Used

Registration: Used to verify user

User: Actor who uses the application

Services: Main module which provides user to access

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services

Location: Shows the list of service location and gives

information regarding the location.

Direction: Shows the direction to the user location by using google API's.

3. CONCLUSIONS

This paper presents the solution to the problems like typing services especially emergency services during urgency is difficult and time consuming and it can be avoided using this application and it is of categories to of different emergencies, Search is a special module to use all the services by typing and to avoid moving from this application to other for another services.

Google maps Provides wide variety of services list, and that makes clumsy to user to know from the list of services at situations, these services are critical and widely used and at sometimes most urgently required, at that time selection will be difficult from huge lists and this application provides one of the best way of accessing services

4. FUTUREWORK

The proposed project is with the view of making services at ease and mainly with the emergency services, this application is limited only 5km Radius to show available services but if there is no services of these with in 5km then user needs to access search bar to find, to avoid this it can be made that if not in 5km then asking user to search in 10km or more just by clicking option can be made.

In the same way categorization can be made for different services and can be extended to most used services by analyzing which ever services are used by people, voice assistance can also be made for search module to make it more easier.

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