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## A Survey On-Smart Mobile App for Women Safety

Bhushan R. Dhobale<sup>1</sup>, Sayali S.Thorave<sup>2</sup>, Sagar B.Doke<sup>3</sup>, Prof.Amrut V.Kanade<sup>4</sup>

B.E. Students, Dept. of Computer, Jaihind College of Engineering, university of Pune, India<sup>1,2,3</sup>

Assistant Professor, Dept. of Computer, Jaihind College of Engineering, university of Pune, India<sup>4</sup>

**ABSTRACT:** Women safety is challenging issue in India. It is not only limited for specific area but also all over the world. Therefore it is not secure for any women to travel any unknown place. There are many android applications for women's safety but they are less efficient or user-friendly. So in order to solve issue of a women's safety we develop an android application which is easy to use and efficient to provide help to a victim. Our application will collect user's information for future use and continuous tracking using LBS. When there is a dangerous situations like rape or domestic abuse, the system will get activated. If it is difficult to make a call, to send a message at that time simply press alertbutton.in this situation .In addition we are using voicerecognition system. The Voice of Victim will get recognize by the system and its current location will be send to each and every App user in that area. In addition, if the victim will press a button on screen then notification will be send to people in the respective area.

**KEYWORDS:** Location Based Services,Trilateration Method, LBS,Voice Command Recognition.

### I. INTRODUCTION

Women safety is major issue in India and also in other countries. In the current scenario there is a highest priority issue of women security. Government has provided security through rules & regulation to society. There are different aspects, areas & scopes of women security. Recently security concern is the major problem. Major concern is that though women has reached everywhere in every field but still a question arises "ARE WOMEN SAFE". With the growing number of harassment and violence cases women security has become major area of concern. Women in India a better half of Indian society, today, are becoming the most helpless section as far as their safety and security is concerned. In distress situation, mobile phone can be the best protector of victim. User can stay in contact with their loved one at any time. Anybody needs to make a call or send a message in emergency at anytime from anywhere.

Smart phones provides many facilities and cheaper internet cost. Android is provided with features like high resolution camera, Wi-Fi, GPS navigation, touch screen which helps the mobile phone users to keep in touch with the modern world. Android is a software stack for mobile devices. It includes an operating system, key applications and middleware. The Android SDK provides the tools and APIs use to develop applications on the Android platform using the Java programming language. It is a software platform, rather than just an OS, that has the potential to be utilized in a much wider range of devices. Android provides access to useful libraries and tools that used to build rich applications. Women in emergency uses voice based contact list, they can select contact through voice and make call when required. For that user have to remember registered the key. It is called, text messaging service component of the phone, and uses standardized communications protocols. It allows sending of short text messages between mobile phone devices. Speech Recognition and Conversion in text will be the necessary part of the system.

### II. RELATED WORK

FightBack, the women's safety application, sends SOS alerts from your phone. FightBack uses GPS, SMS, location maps, GPRS,email and your Facebook account to inform your loved ones in case you are in danger. The safety and security of an employee is of paramount importance to us. In these troubled times it is important for you to know that Tech Mahindra cares for you and your loved ones[1]. Provided to your employees, staff, guards and other users, Guardly Mobile enhances safety and security policies, enables operational and emergency alert reporting and improves crisis communication[2]. OnWatch™ includes your GPS location with all messages, so emergency services

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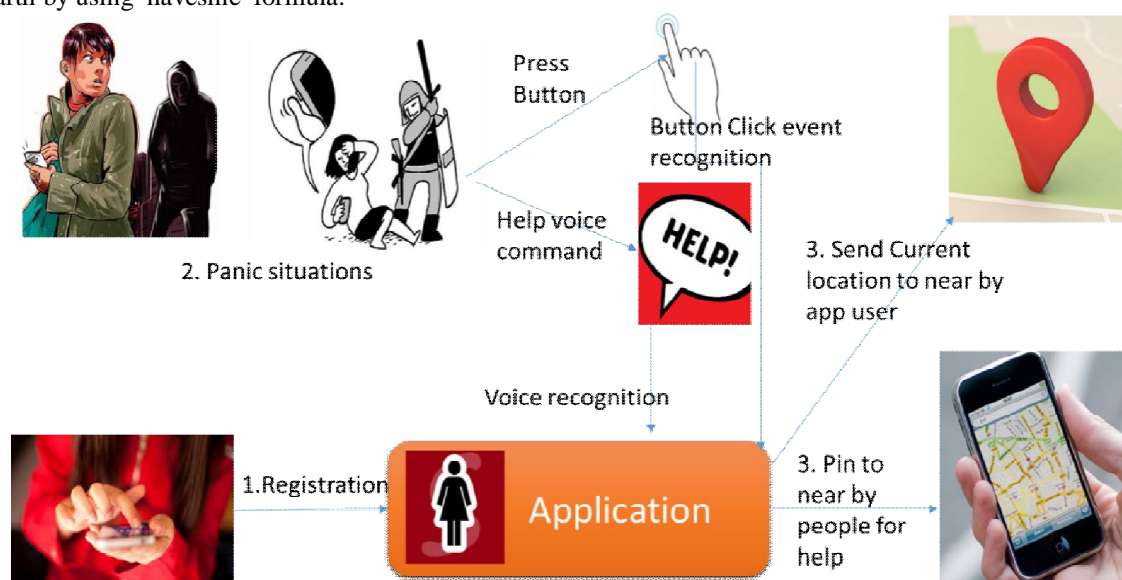
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and your friends know where you are. And any time you activate OnWatch™, you can choose to have an alarm sound and a flashlight go off. You can even post your messages to Facebook and Twitter![3]. The Android Locator App not only lets you know where all of your registered family members are, but can also help locate your phone if you lose your Android device. Stay in touch with everyone in your family network with quick communication and even receive alerts when family members reach specified locations. Setting up alerts in the Android App will allow you to know when family members have made it safely to their next destination.[4]

### III. PROPOSED SYSTEM

Here we are going to apply several number of techniques. Finally to produce the output several results are generalized. As input is girl's location and then synchronization of police and nearby passers is required and then location is send to all app user in that area for voluntary help. The trilateration algorithms is used to find location on earth by using hasesine formula.



#### A. Database

Database includes contact numbers and voice keyword. User register a contact list of people to whom user want to ask for help and keyword or voice is saved for recognition purpose Contacts and keywords are saved in database. Database is stored in mobile memory. Database used is SQLite database. There should be at least two and at max five contact numbers in database.

#### B. Voice Recognition

Voice recognition module is use to recognize keyword spoken by the user. Keyword spoken by the victim is compared with the registered keyword. This keyword is matched with converted text. If keyword matched then message will send.

#### C. Location Tracking and Address Finding module

It requires GPS enabled mobile. Location will be tracked using GPS. It finds the longitude and latitude of current location of user. Using longitude and latitude location is searched and an actual address is given via message. Internet is must in others mobile. GPS is disable system will not find the exact location of user. It will just send the longitude and latitude of the location.

#### D. Message Sending Module

The GPS Application Program Interface (API) fetches the longitude and latitude coordinates. Using longitude and latitude location is searched and an actual address is searched. Pre-stored emergency message is send to registered



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contact numbers along with the longitude and latitude and an exact address of user. If network is not available on user's mobile then message goes in queue and when network gets available message is send. When message is send then notification is given.

## IV. CONCLUSION AND FUTURE WORK

To understand the real world problems of women's like domestic abuse, violence, rape in public area. And due to this condition difficult for travel lonely at midnight or unknown area.so with the help of our android app the location of victim itself traced and message send to nearest app user and finally provide security to the victim in stipulated time.

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## BIOGRAPHY

**Bhushan Dhobale, SayaliThorave and Sagar Doke** are BE Students and **Prof.Amrut kanade** the Assistant Professor in the Computer Engineering Department, Jaihind College of Engineering(Pune), Savitribai Phule,Pune.