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Survey on "Kavachh - Women Safety Android Application Using Shake Sensor"

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ABSTRACT: In today's world, people using smart phones have increased rapidly and hence, a smart phone can be used efficiently for personal security or various other protection purposes. The heinous incident that outraged the entire nation have waken us to go for the safety issues and so a host of new apps have been developed to provide security systems to women via their phones.

This paper presents an Android Application for the Safety of Women and this app can be activated just by shaking the phone several time, whenever need arises. It identifies the location of place through GPS and sends a message comprising this location URL to the registered contacts and also call on the first registered contact to help the one in dangerous situations. The feature of this application is to send the message to the registered contacts whenever the phone is Shaked. A text message with your current location is sent via SMS to your registered/trusted contacts.

KEYWORDS: Android phone, Shake Sensor, Global Positioning System (GPS), URL, Registered Contact.

I. INTRODUCTION

Women's safety is a major concern in India, just as it is not safe for other women to travel alone or meditate in lesser-known places at 12 noon. Women need help because they are not physically strong like men. From this point on, your mobile phone can be your customer's closest companion, allowing you to stay in touch with your loved ones at any time. Someone needs to call or report a specific thing in a crisis situation anytime, anywhere. Smartphones offer numerous offices and far fewer countries at the price of the Internet.

Android is equipped with features such as high-definition camera, WIFI, GPS, route, contact screen, so that mobile phone users can stay in touch with the modern world. Android is a set of products for mobile phones.

This includes working frameworks, key applications, and middleware. Women in crisis are as weak as men and need a helping hand to rescue them. The best way to minimize your chances of becoming a victim of a violent crime (robbery, sexual assault, rape, domestic violence) is to seek help from a professional who can help you get out of unsafe situations. If you're in trouble don't know how to get home, installing these apps on your phone can help reduce your risk and
provide you with help when you need it. Introducing Android applications that keep women safe. This will help you reduce your risk, find people at risk and need help.

II. DOMAIN-ANDROID SYSTEM

Android is an operating system designed primarily for touchscreen mobile devices such as smartphones and tablets. Operating systems have changed a lot in the last 15 years, from black and white phones to the latest smartphones or mini computers. Android is one of the most popular mobile operating systems today. Android is a powerful operating system that supports numerous applications on smartphones. These applications are more convenient and advanced for users. The hardware supporting Android software is based on the ARM architecture platform. Android is an open source operating system, so anyone can use it for free. Android is popular because there are millions of apps that help you manage your life in one way or another, and they are available at affordable prices in the market.

III. PROBLEM STATEMENT

At any emergency situation people get panicked and, in that situation, they may not be able to operate their smartphone applications, and cannot immediately defend and protect themselves.

The proposed system can be useful for omen and children for security purpose. It is an Android application which gets activated with the shake of phone. On shaking a SMS will be sent to the trusted contacts aling with the current location.

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OBJECTIVE

We are focusing on building an effective, fast and reliant system to make the women of India feel safe and empowered.

This app will act as a 24/7 active help and companion for women so that they don't ever feel that they are alone in the middle of a crisis situation.

IV. EXISTING SYSTEM

As a part of literature survey, we covered some applications that has the same or similar features for android operating system and other platforms. The motto is to see how these applications work and to see how they can be improved with additional features. Today, a smart phone can play an important role for safety of women. Now android is budding on some apps for women security purpose. These apps are as follows-

1. Abhaya: - An android app for the safety of women: -The "Abhaya" an Android Application for the Safety of Women and this app can be activated this app by a single
click. when ever crisis arises. A single click on this app gets the location of place through GPS and sends a message consisting the location and sent to the contacts and also call on the first registered contact to help the one in adverse situations.

2. Sauver: - Female Safety Android App. "Sauver" is a French word meaning "to save". Their motto while developing this app is to provide a safe environment for women with their smartphones. The app can be activated with one click when the user feels they are at risk. The main function of this application is to receive a call from one of the registered contacts with your location. In addition, registered contacts and GPS locations are stored in the database from time to time.

3. LIFECRAFT: Android based female safety application system: "LifeCraft". This is an Android application for women's safety, but men can also use it in case of trouble. It can be activated by voice command or SOS key. A location notification message is sent to a number you specify every 5 minutes until the system is turned off. They kept the audio recording option to preserve the evidence. Continuous location tracking, victim safe zone indication, and offline mode are some of the most useful features of this system.

4]A Mobile Application for Women's Safety: WoSApp: - The Women's Safety App (WoSApp) provides a reliable way for women to report to the police in an emergency. Users can easily and discreetly activate calling features by explicitly interacting with the user interface of the application by simply shaking the phone or pressing the PANIC button on the screen. A message is immediately sent to the police with the user's geographic location and contact details from a pre-selected list of emergency contacts.

5]Women's safety system by voice recognition: - In this app They will provide permissions in it to access the web and track the present location of the user and send it to REGISTERED Contacts. First of all, users got to fill their info within the application and that they will edit their info anytime. They have a tendency to use this application by voice or by a shake or by click and this application have an extra issue that's sound recording module which might be used as proof. If Voice Recognition doesn't work properly then mechanically another process can begin (shake or click). They have a tendency to add most 5 members in it to elicit facilitate before that application has got to notice the closest station house and send ALERT messages of them.

V. PROPOSED SYSTEM

To develop a system for android users for keeping track through several applications. This application uses GPS for locating the location of the person in trouble and the system can be separtated into two modules:

1. First module can be the sufferer's phone i.e., the android device which uses 3G/4G data connection for tracking the location of the sufferer through GPS.
2. Second Module can be the mobile phone of registered contacts either family members or friends which receives the message containing URL of location of user that is sent from the android device.

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BLOCK DIAGRAM

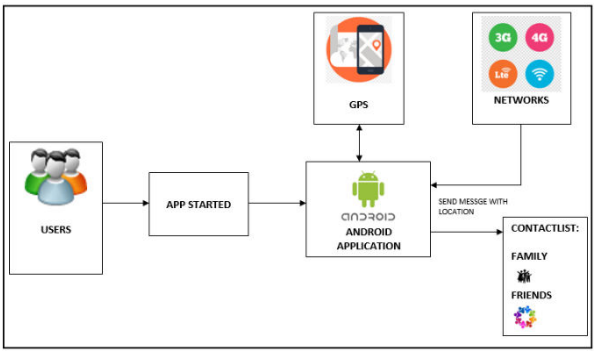

Fig 1. Block Diagram for the Proposed System

"Fig 1" shows the block diagram of the system. When the user initially clicks on the application, the application starts and first checks if the application's location settings, data connection settings are enabled. Then the user can shake the Android phone several times. That is, you can shake it 2/3 times. It then uses GPS to track the victim's location and sends these location coordinates as a URL via a message to the registered contact. Registered contacts here means that the contact data will be saved in the application during initialization. The received device now determines the exact location of the patient by clicking the URL in the message. Then, with the help of the GPS location, the person moves to the place and rescues her from the situation.

V. CONCLUSION

Our task behind this work is to configure and create Android applications that can be used to provide the vantage point of a separate security system. This configuration solves most of the major problems facing women and keeps them safe. The proposal component provides access to vibration sensor applications and determines a person's location on a longitude and scale that can be tracked using Google Maps. This system reduces the number of crimes against women. Women's safety is an important issue in the present situation. These violations can be eliminated by continuing to use our proposed structure.

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