

PERISCUE - A SAFEGUARD APPLICATION USING VOLUME BUTTON

N. Sabari Nandini ¹, M. Shobika ², M. Tamil Selvi ³

sabarinandini97@gmail.com, shobikamurugesan1@gmail.com, tamilpinky26@gmail.com

Vivekanandha College of Engineering for Women (Autonomous)
Department of Computer Science and Engineering

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 has wakened us to go for the safety issues and so a host of new apps have been developed to provide security systems to common people via their phones. The project presents people security through an Android Application PERISCUE and the app can be activated by a pressing the volume button in mobile, whenever need arises. System uses the Global Positioning System (GPS) technology to find out the location of a person. The information of a person's position provided by the SMS which comprises of the danger notification and location URL to the registered contacts. The URL directs to the Google map.

1. INTRODUCTION

In today's world, it is not safe for a person to travel alone at night especially for women; it will be high time to travel alone because a woman is not highly strong as men to protect herself from them. The good way to reduce chances in becoming a victim of violent crime (robbery, sexual assault, rape, domestic violence) is to identify and call on resources to help you out of unsafe situations. Whether you are in instant trouble or got separated from friends during night and do not know to reach home, having these app on your phone can diminish our risk and bring assistance when we require it. In our project, we present Periscue, an application for smart phones working over android platform. Periscue is a combined word of peril+rescue which means to rescue, to save, to salvage and to run away from danger. The motto of the app is to provide a safe environment to a common people through a smart phone

especially for women as today most of the people are carrying smart phones to wherever they go. Of course, the Delhi Nirbhaya case has made the Government to make the laws tougher, but even though the sexual crime rate in India have not decreased. So, it is better to take our own safety measures rather than becoming a victim of those crimes.

1.1 ANDROID OPERATING SYSTEM

In today's world, Android rules the Smartphone's universe, which is truly an open source. It is a mobile platform that brings transformation in the android applications by using advanced level of hardware and software. Android platform has the latest security architecture that provides the ensured security to applications, information, user data and network. Android is designed with multilayered security that provides flexibleness needed for an open platform, whereas providing protection for all users of the platform designed to a software stack, android includes an operating system, middleware and core application as a complete. Android powers millions of mobile devices in more than 190 countries around the world. Android is most commonly used operating system. Android operating system provides unique and extendable features like additional hardware support, video calling and updated user interface design. Most of the android applications available on Google play are free of

cost. Android is also designed with focused on user's perspective. Users can view how applications work, and manage those applications.

1.3 GLOBAL POSITIONING SYSTEM

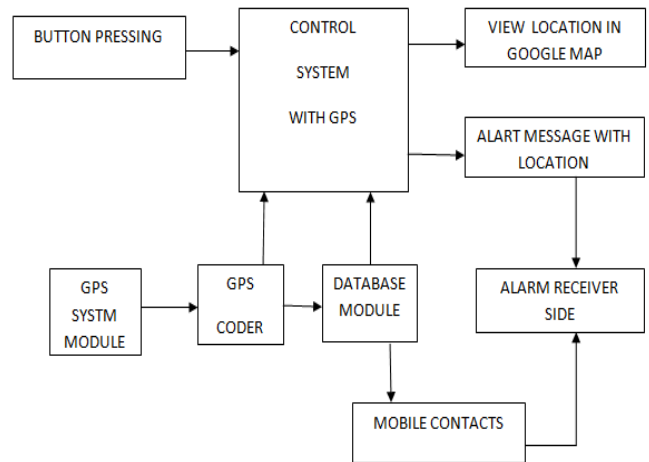
GPS is a satellite navigation system used to determine the ground position of an object. GPS technology was first used by the United States military in the 1960s and expanded into civilian use over the next few decades. Today, GPS receivers are included in many commercial products, such as automobiles, smartphones, exercise watches, and GIS devices and it serves many purposes in our daily navigation. Drivers use GPS when navigating streets, pedestrians use GPS on mobile devices to navigate walking paths, and GPS devices are being used to monitor human and animal movement. In addition, many recreational uses, such as hiking, use GPS to track locations.

2. PROJECT OVERVIEW

The objective of the project is to provide security for the common people through their Android smart phones. In the project, we introduced an app which ensures the safety of a people. This helps to identify and call on resources to help the one out of

dangerous situations. These reduce risk and bring assistance when we need it and help us to identify the location of the one in danger.

The app Periscue provides security by finding the location through GPS. Generally one can activate the GPS by clicking on VOLUME KEY it sends SMS to those contact which you saved at the time of registration. The SMS contains victim's danger notification and the current location with the URL.



3. SYSTEM DESIGN

1) System Architecture:

The below block diagram of the project show two users one is victim especially Women and another one is relatives. Victim user long press volume key then first find location (Longitude and Latitude) and send Message with longitude and latitude to relatives. Report will be generate all the message details and relatives who receive message.

2) Functional Description

A user should be able to:

- Add emergency contact numbers.
- View and Change the emergency contact number after adding.
- Add their message for emergency help.

4. EXISTING SYSTEM

There are many electronic devices and systems are used to provide security for human:-

- 1) Spy camera is the most popular method for pro-viding security which is unreliable.
- 2) The existing systems are of wired systems and most of them are alarming systems which is Conventional and cannot communicate efficiently. There is also a

variety of applications for women protection when they are in dangerous situation. The disadvantages of using these applications are they only send the alert messages to the saved contacts. Because of previous systems there is less possibilities of overcome the dangerous situations of women.

5. PROPOSED SYSTEM

Even though there are varieties of applications are available for safety. But it has its few drawbacks. The proposed model describes the security of the common people using through android mobiles. Our application model is, if any one is danger situation, It is used to rescue the people from that situation by pressing the volume button even though it is in locked condition. When the victim pressing the volume button the GPS will be automatically activated and send the alert message to the saved contact with the ringtone and the alert message also contains the location of the victim.

6. CONCLUSION

The application periscue presents designing about the critical issues faced by common people at present days and will help to solve them that unethical issues. This

application helps the tracking of the victims location through GPS which will help the victims guardian, friends, or relatives to rescue the person in danger as quickly as possible from the anti-social elements. This application can overcome the fear that scares every people in the society about their safety and security.

7. REFERENCES

- 1.” Android Application for women security system “Kavita Sharma, Anand More M .Tech Student ,Assistant Professor Department of Computer Science & Information Technology Devi Ahilya Vishwavidyalaya , Indore, India International Journal of Advanced Research in Computer Engineering & Technology (IJARCET) Volume 5 Issue 3, March 2016
2. “ All in one Intelligent Safety System for Women Security”, K. J. Somaiya college of Engg., Vidyavihar, Mumbai, India, International Journal of Computer Applications (0975 – 8887) Volume 130 – No.11, November 2015
3. Sukhjeen Kaur M.Tech, CSE, Jagpuneet Kaur Bajwa Assistant Prof “Woman Security using Android based Hybrid

Framework “Department of computer science Punjabi University, Patiala Punjab, India International Journal of Computer Applications (0975 – 8887) Volume 148 – No.6, August 2016.

4. International Journal of Application or Innovation in Engineering & Management (IJAIEM) Web Site: www.ijaiem.org Email: editor@ijaiem.org Volume 3, Issue 4, April 2014 ISSN 2319 – 4847 Volume 3.

5. International Journal of Electronics and Communication Engineering & Technology (IJECET) Volume 7, Issue 2, March-April 2016, pp. 41–46.

6. Bramarambika Thota, Udaya Kanchana Kumar .P [An Android Application For Women Safety] M.Tech, Dept. Of ECE, Vignan University, Guntur, India, M.Sc,

Computer Science, TJPS College, Guntur, India INTERNATIONAL JOURNAL OF TECHNOLOGY ENHANCEMENTS AND EMERGING ENGINEERINGRESEARCH, VOL 3, ISSUE 05 122 ISSN 2347-4289.

7. Prof. Sankalp Mehta¹, Sachin Janawade², Vinayak Kittur³, Suraj Munnole⁴, Sandhya Basannavar⁵ Assistant professor¹, Student^{2, 3, 4, 5} [An Android Based Application for Women Security] Department of Computer Science and Engineering K. L. E. College of Engineering and Technology, Chikodi, Karnataka, India.