

GPS Location System for Women Safety

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ABSTRACT

Women Safety Application can be used to find and Help Women in emergency. Women Safety Application can show you exact location of the women in help to her relatives, guardian and friends along with the specific location, where you can go and help it. Women Safety Application system offers the added protection of being track by relatives on different time interval and different location. In the addition to this family, parents can easily track and monitor her daughter. Women Safety Application as every girl have mobile phones and rarely put them down. Lots of families and professionals are waking up to the many benefits that Women Safety Application. This application offers a helping hand with the help of GPS based location tracing. At the time of emergency there may not be any possibility to attempt phone calls or to send messages manually then this application will be very helpful for persons who are at difficulty. By simply shaking a screen at once it will send emergency message along with the location coordinates where we are located so that the others can know where we are to trace our current location. And it will also raise an alarm to alert the people who are nearer to that particular location so that we can get immediate help from them.

Keywords : Apps, Android, Mobile, Safety, Women.

I. INTRODUCTION

Women Safety Application can be used to find and Help Women in emergency. In recent time it's been identified lots of misbehaving activity in urban and rural part of our country. With some statistics citing the occurrence of one rape incident every 20 minutes, it is evident that it has reached epic proportions. Since mobility growth has been identified in recent 10 years and Smartphone penetration started 5 years ago. With the rapid growth of Android user and cheaper internet cost we can provide a simple medium to create safety awareness among the working and professional women of young and teen age. Women Safety Application can show you exact location of the women in help to her relatives, guardian and friends along with the specific location, where you can go and help it. Women Safety Application system offers the added protection of being track by relatives on

different time interval and different location. In the addition to this family, parents can easily track and monitor her daughter. Women Safety Application as every girl have mobile phones and rarely put them down. Lots of families and professionals are waking up to the many benefits that Women Safety Application. This application offers a helping hand with the help of GPS based location tracing. At the time of emergency there may not be any possibility to attempt phone calls or to send messages manually then this application will be very helpful for persons who are at difficulty. By simply shaking a screen at once it will send emergency message along with the location coordinates where we are located so that the others can know where we are to trace our current location. And it will also raise an alarm to alert the people who are nearer to that particular location so that we can get immediate help from them. Now a Days, many android applications are available which

provides many smart things to the users. Google's Android Operating System in Mobile phones are still relatively new, however, Android Operating System has been progressing quite rapidly. Easy access to thousands of applications via the Google Android App Market – When you love to install applications or games, through Google's Android App Market can download applications for free. Conceived as a counterpoint IOS, Android is a graph showing a significant development, it certainly can't be separated from supports major mobile phone manufacturers who participated to bring mobile-phone operating system Android. A wide range of tracking systems has been developed so far tracking vehicles and displaying their position on a map, but none of the applications has been developed so far which tracks the mobility of a human being. Now a day's tracking a person's mobility has become a crucial issue these days be it tracking a criminal came on payroll or a system which is cost effective and can be used for tracking a human being using a GPS and GPRS equipped mobile phone rather than using a handheld GPS receiver. "The main focus of our project is to reduce the overall cost of tracking based on GPS system which is a satellite based service which is available 24X7 everywhere in the whole world. GPS system can be used to get location which includes details like latitude, longitude and altitude values along with the timestamp details etc. it a free of cost service available to every individual. In order to track the movement of the person we have used Google Maps for mapping the location sent by the mobile phone. The mobile phone which fetches the GPS location communicates with the server using General Packet Radio Service (GPRS). This service is a low cost service provided by the service providers which is a wireless data communication system. Mobile phones equipped with GPS receiver are easily available in the market these days and is a booming technology these days. This cell phone technology has enabled us to communicate almost every part of the world across the boundaries. The GSM/GPRS is one of

the best and cheapest modes of communication present these days and in future.

II. EXISTING SYSTEM

In existing system there is no way to find the interruption needs long time. So many chance to die during time delay after any interruptions which done for women. Also the ambulance and hospital there is no way to find the exact location of the women. The Manual process of tracking information Information's are manually updated by the particular user then the emergency backup will be send to corresponding persons. The existing system Project of security application provides the user alert by calling manually in the smart phones the user cannot transmit the data of their location immediately and cannot protect the devices as soon as possible.

III. PROBLEM DEFINATION

Using android we are going to implement GPS person tracking. If a person is interested in tracking another person's location through GPS, then using java with android SDK we will create one interface which will retrieve positions of person anywhere on the earth and upload it on server. On server side we are using PHP and MYSQL to get the inputs from Android device. Using PHP command, we will insert the person's location in database. After that, using maps we will plot location of person on map. So administrator of the system will able to monitor people. To develop an adaptive system for the End-users that support the system support features. It should be highly secured authentication system. It maintains privileges among set of users. In existing system there is no way to find the interruption needs long time. So many chance to die during time delay after any interruptions which done for women. Also the ambulance and hospital there is no way to find the exact location of the women. The Manual process of tracking information Information's are manually updated by the particular user then the emergency

backup will be send to corresponding persons. The existing system Project of security application provides the user alert by calling manually in the smart phones the user cannot transmit the data of their location immediately and cannot protect the devices as soon as possible.

IV. PROPOSED SYSTEM

By using GPS it will simply trace out our current location and show the friends information who are near to the current location by tracing their mobile location all the time. If there raises any emergency where we cannot attempt a phone call and to explain about the urgency, then by using this application just simply pressing on a single button. It will send a message that we are in danger, we need immediate help, so that they will respond immediately by tracing our mobile location It will also sound a siren which will be helpful to alert the people who are near to that location. Google Earth is used to create road condition maps using GPS coordinates. A wireless black box using GPS tracking and GSM module can be developed for welfare purpose.

V. OBJECTIVES

The main objective of the project is to help the women who met the interruptions. And also Develop Low Cost critical situation Detection System for achieving women welfare Using Android

VI. ADVANTAGES AND APPLICATIONS

Advantages

- Tracking Detection Using Cheap devices
- Get the current location of the Tracking spot
- Get quick help response
- Low Cost
- Effective

Application

- The Drawbacks of the system is when emergency situation occurs the user cannot protect the smart phones and they cannot track the phones if they lost it.
- The user cannot be set the alert function when they are in risk situation and immediately they cannot pass their location to friends and family members to intimate they are in risk.
- The internet cost is too high and time delay to find out the IMEI number of mobile to track it.
- In existing system, the GPS sensors or not used for getting Location
- More time delay many chance to dead
- Need sensors for obtaining accurate places.
- Long time is required to tracking the appropriate place

VII.SNAPSHOTS

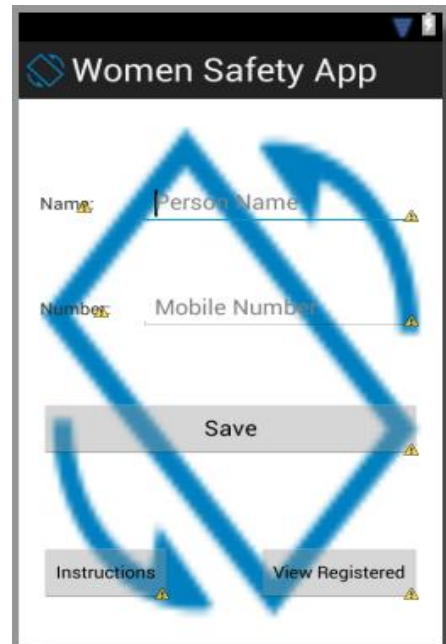


Figure 1: Women Safety App

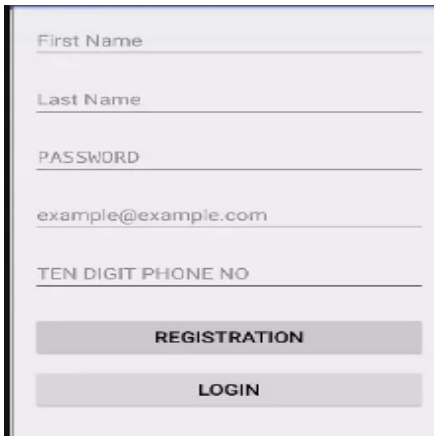


Figure 2: Login Page

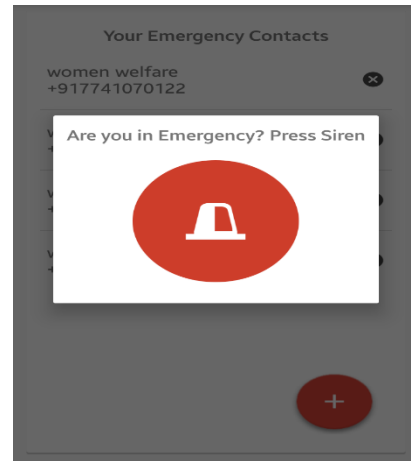


Figure 4: Alert alarm



Figure 3: : Main Menu

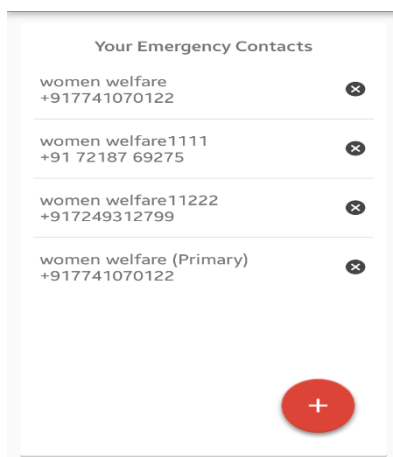


Figure 4: Contact List

VIII. CONCLUSION

The list of 'ifs' and 'buts' is long. It never ends and therefore, it is important to focus on positive aspects rather than on negative aspects. The mobile security apps can reduce the probability of becoming a victim of violent crimes including rapes, sexual assaults and robbery. The requirement is to identify what works best and use that resource to get help in dangerous situations. The apps are at fingertips and therefore, women should make it a habit to stay proactive to make use of these apps in tough situations.

IX. FUTURE SCOPE

In future we have to implement video recording system which records the video activity via using our android mobile phone. Also we have to implement sending option for enabling the user to send the recorder audio (voice) via WhatsApp, email etc.,

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Cite this article as :

Rohini Gaikwad, Revati Mahajan, Pritee Kodape, Priya Padoti, Rupali Sonsare, "GPS Location System for Women Safety", International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), ISSN : 2456-3307, Volume 5 Issue 5, pp. 28-32, February 2019.
Journal URL : <http://ijsrset.com/IJSRSET195506>