

Women Tracking and Safety System Based GPS, GPRS Using Android Mobile

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Abstract— Women in emergency women safety application can be used to find and help. In recent time it's been identified lots of misbehaving activity in urban and rural part of our country. With some evident statistics citing the occurrence of one rape incident every 20 minutes, that it has reached epic proportions. Since mobility growth is been identified in recent 10 years and with the rapid growth of android user and cheaper internet cost with Smartphone penetration started 5 years ago we can provide a simple medium to create safety awareness among the working and professional women of young and teen age. This application can show you exact location of the women in help to her relatives, guardian and friends along with the specific location, women safety application system offers the added protection of where you can go and help it being track by relatives on different time interval and different location. In the addition to the family, parents can easily track and monitor her daughter. Primarily track the nearest location of women and add history of alert messages .Lots of families and professionals are waking up to the many benefits that women safety applications.

Key words: GPS, GPRS, Android mobile

I. INTRODUCTION

A wide range of tracking system tracking vehicles and displaying has been developed their position on a map, but none of the application has been developed so far which tracks the mobility of a human being .now a days tracking A person's in a crucial issued mobility has become these days be it tracking a criminal Came on payroll or a system which is cost effective and by using GPS and GPRS can be used for tracking a human being equipped mobile phone rather than using a handheld GPS receiver. "The main focus of our project is to reduce the overall based on GPS system cost of tracking 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 about latitude, longitude and altitude values among with the timestamp details etc. The mobile phone which fetches the GPS location communication with the server using general packet radio service (GPRS).This wireless data communication services is a low cost service provides by the service providers. Mobile phones equipped with GPS receiver are easily available in the market it as blooming technology in 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 in these days and in future.

II. EXISTING SYSTEM

It can be used to find and help women in emergency in recent time it's been identified lots of misbehaving activity in 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 of one rape incident every 20 minutes. With the rapid growth of android user and cheaper internet cost we can provide a simple medium to create safety 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, family and friends along with the specific location where you can go and help it.The main objective of the system is to track the current location of the person which has enabled an android mobile by extracting the longitude and latitude of that target person. The primary objective of our system is to track the person and plot the location on real time system.

A. Disadvantages of existing system:

- No applicable in a network area.
- Require internet access.
- Time delay.

III. PROPOSED SYSTEM

The proposed system is especially for the women safety and overcomes the existing system disadvantages:

- Women safety application help to identify the exact location to monitor our relatives and family.
- Main focus of our project is to reduce the time consuming the alert notification send our current location nearest relatives, family with help of google map and add history of alert messages.

IV. SYSTEM DESIGN

A. System architecture:

Several modern embedded and communication technologies are integrated with this system. To provide location and time information anywhere in the world, Global Positioning System (GPS) "built in the Android" is a space-based global navigation satellite system. It is commonly used.

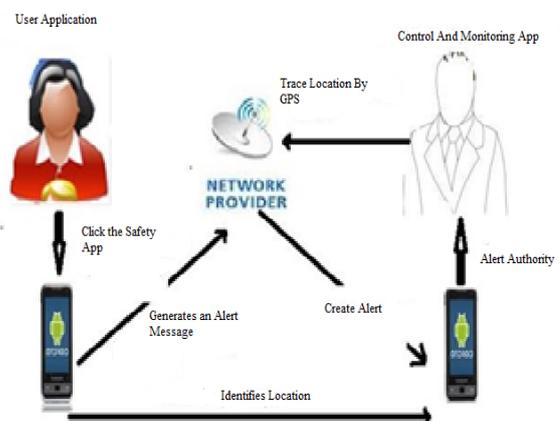


Fig. 1:

B. Working of system:

The below diagram show working of proposed system. Location of women find with help of GPS system. If GPS is not on in women mobile GSM tower location will added into message.

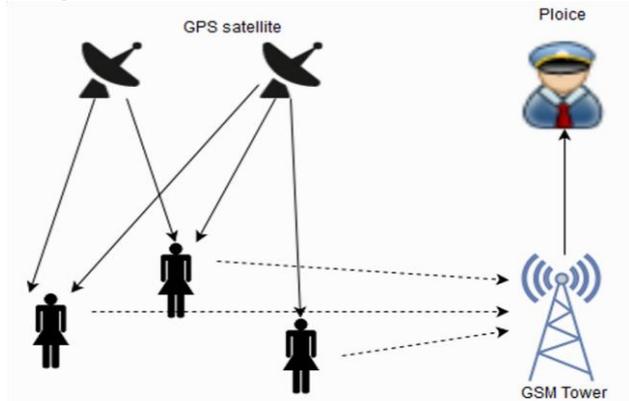


Fig. 2:

Advantages:

- Provides security to women.
- Reduced cost.
- User friendly GUI.
- Get live position.
- Records of history message

Module Descriptions:

- Authentication
- Format Option
- Alert Service
- System protection

Authentication:

In this module the user password have the facility to register the account .The right authenticated user can only have access to the application and use the service and protects and also it control the user actions like managing contacts the user file from the file manager.

Format Option:

It can have the right access by the authenticated users. It protect the file in the file manager control by the user .The user can store the file access path to the local database and they can access later on it.The user can add by the authenticated users it can have the right access. The user can protect the file in the file manager control. The user can store the file access path by the local database and they can access later on it. The user can add the 5 emergency contact numbers for sending the emergency alert when they are at risk.

Alert service:

In the mobile phone the user can send the alert by using the SMS service available. In the smart phone when the alert service is activated the user get the current latitude and longitude from the GPS services is available, then the user get the current location address from the latitude and longitude details. The IMEI number of the mobile phone can be received, so that the SMS receiver can track the mobile phone later.

System protection:

This system protection module is the service like wipe memory, backup message and contacts, remove contacts, hang mobile screen are the main module and it triggers the services. The storage devices has wiped out fully and the contacts and message available in the phone memory

have been back up in the SD card in smartphones, etc. Then the contact may be removed in phone then the mobile may be unused by the users.

V. SYSTEM REQUIREMENTS

A. Hardware Interface:

Following are the important requirements:

- Android mobile with GPS and GPRS.

B. Software Specification:

- Operating System: android
- Development tool: ECLIPSE
- Front End: JAVA
- Back end:SQL server

VI. CONCLUSION

In this paper, suitable for wide range of applications low cost women tracking system using GPS and GPRS of GSM network, all over the world. The combination of the GPS continuous and real time tracking and GPRS provides security. The cost is much lower compared to SMS based tracking systems. Free Google map and the use of HTTP protocol as data sending method reduces the monthly bundle small business owner cost for the individual user and also for the small business owner. It is expected that the full implementation of the proposed system would ultimately replace the traditional and costly SMS based tracking systems.

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