

ANDROID APP FOR WOMEN SECURITY

S. Chandragandhi¹, A. Hari prasanth², M.Govindharaj³, R. Aravind⁴

¹Assistant Professor, Department of CSE, JCT College of Engineering and Technology, Coimbatore

^{2,3,4}U.G. Student, Department of CSE, JCT College of Engineering and Technology, Coimbatore

ABSTRACT: Today in the current global scenario, the prime question in every girl's mind, taking into account the ever rising increase of issues on women harassment in recent past, is only about her safety and security. The only thought haunting every girl is when they will be able to move freely on the streets even in odd hours without worrying about their security. This paper suggests a new perspective to use technology to protect women. The system resembles a normal clothes which when activated, tracks the location of the victim using GPS (Global Positioning System) and sends emergency messages using GSM (Global System for Mobile communication), to emergency contacts. The system also incorporates a pill reminder for old age women. Remembering the time to take the medicines becomes difficult for old age people. This system overcomes the drawback by reminding the time to take pills through alert notification in android mobiles. By this the old age women feels and takes medicine on time and avoids health risks when they are alone. The messages received that are received as text are converted into voice messages.

Keywords- Message, GPS, Medicine, Alarm.

1. INTRODUCTION:

Even in this modern era the women are feeling insecure to step out of their house because of increasing crimes in our country like harassment, abuse, violence etc., The corporate and IT sector are currently in boom. Many women are working in corporate even in night shifts. There is feeling of insecurity among the working men. The main purpose of this application is to intimate emergency contacts about the current location of the women. A GPS system is used to trace the current position of the victim and the message is send to the predefined numbers. The text messages received is converted to voice notes which are very helpful for the visually impaired people and the old age people. The native android application is created in Java language. The key point of native apps is that they provide more security compared to hybrid apps. The native android applications are more efficient and compatible with all the android phones. This app is created to help the women, physically challenged people and elder people.

2. EXISTINGSYSTEM:

There is a variety of applications for women protection when they are in dangerous situation. The disadvantages of using these applications are they only use the security cameras. This cannot be carried wherever women go. Existing system don't have the feature that is it don't sends the alert message.

Additional features are not there in existing system for old age women and physically impaired people. They have to depend some others to read the incoming new message which is received to their mobile. Also while the emergency situation, the people belongs to someone to get the help. The third is the remainder notification. In neither this application there is nor any remainder to take medicines at the specified time.

3. PROPOSEDSYSTEM:

The proposed system helps the women, blind & visually impaired people taking help out of depending others. But it is really tough for them to carry such bulky equipments. So now, in the today's digital world, Android app developers have developed such apps that are extremely useful for women. And the proposed apps must be installed in the handset of all women to make their life easier. This system provides a safe environment by sending text messages in case of emergency or in danger. This android app listens the incoming messages and converts it into voice output. The second is generates the help request with the location information of the women who is in need of help. The help generated while pressing the power button for few times. The third provides a remainder alert with the vibration of their work have to be done or to take medicines.

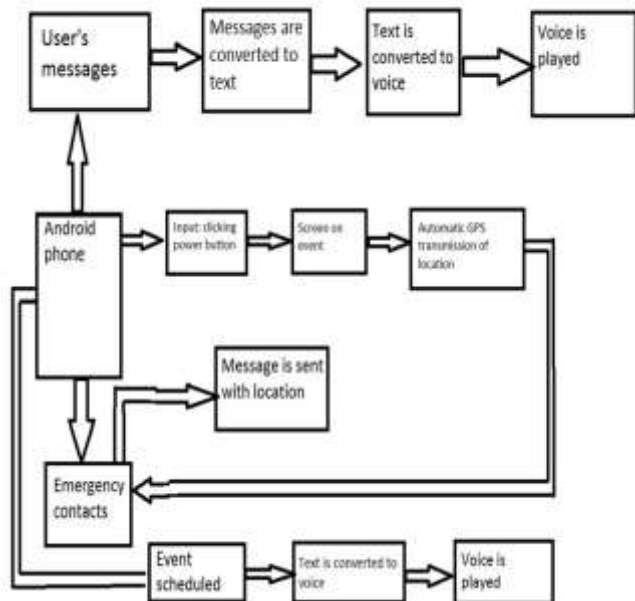


Figure1: Proposed system-Androidapp women security

4. HARDWARE REQUIREMENTS:

- Processor : Pentium III / IV
- Hard Disk : 40 GB
- Ram : 256 MB
- Monitor : 15VGAColor

5. SOFTWARE REQUIREMENTS:

Operating System : WindowsXP Professional

- Front End : Android SDK / JAVA 1.7
- Language : JAVA
- Back End : SQLite

6. MODULES:

In this module there consist of three types namely Message Reader, Emergency requester, Medicine reminder.

1. Messagereader:

The message reader has started while the app starts, also the message listener runs in background to receive the new SMS. Message reader detects the new message using a broadcast



Fig2: Message Reader

2. EMERGENCYREQUESTER:

The emergency requester module, works with the physical keys present in the mobile phone. This module generates an emergency help request with the location information. While the women needs help, the person have to press the power button for few times in their mobile phone, the user location is gathered using the GPS module, then the emergency help request sent to the contact as SMS with the location information.



Fig3: Emergency contacts

3. MEDICINE REMAINDER:

A.PILL BOX:

In this module the user can add medications for their illness based on the prescriptions given by the doctors. The pill box should be maintained with the schedule and time details. The patient can schedule the remainder for once or can every day in a week.

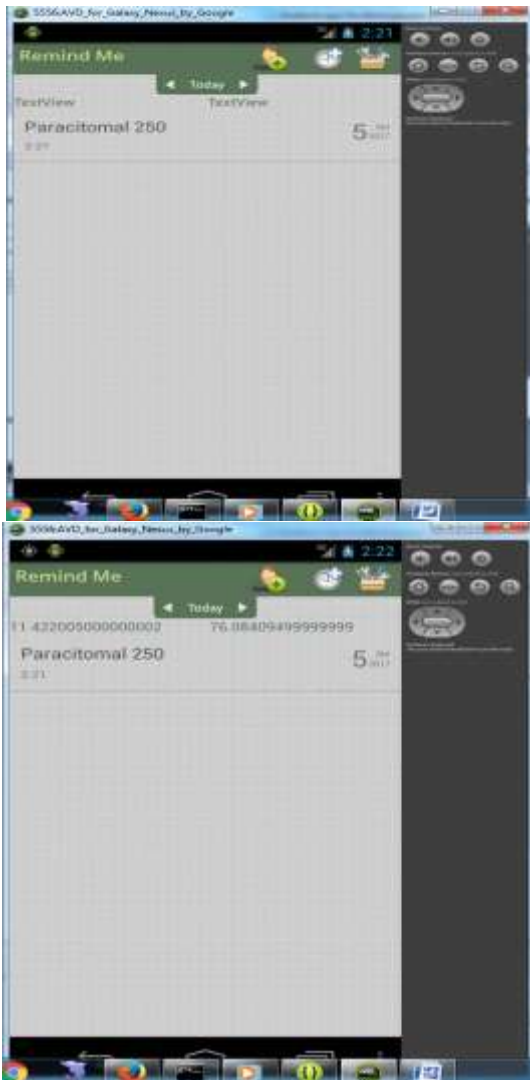


Figure5:medicine remainder

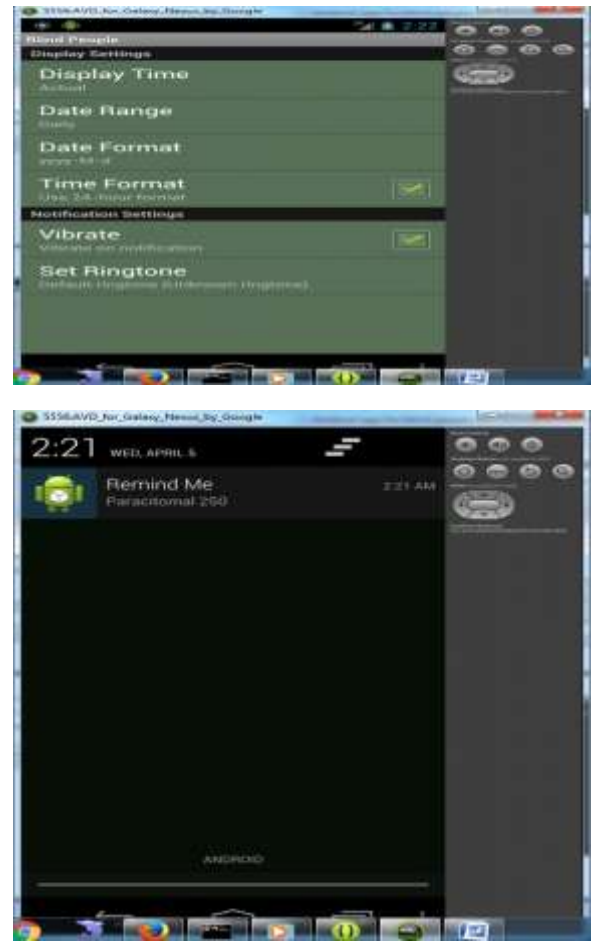


Figure6: Triggering alarm

B. TRIGGERING ALARM:

The alarm can be set for multiple medicines and timings including date, time and medicine description. While the current time reaches the scheduled time to take medicine, this system plays an alarm and intimate the patient to take medicine.

7. CONCLUSION:

The “Application for blind people” is a complex system involving many sub process. The system overcomes the limitation of existing manual system. This project has been designed, developed and implemented thus providing a full-fledged approach for proficient and best of results. The project satisfies each efficient user for saving his time and also helps him in clearing the providing help to the physically challenged peoples.

This project deals with the elements of the native technologies.

- It enables the physically challenged and the elderly people to overcome their difficulties and live without much support from others.
- It enables the well wishers of the user’s to know their location to ensure their security and safety.

The project monitoring services can be updated with necessary enhancements in the database. The system

overheads the problem in the existing ones by capable of processing voluminous data in a user-friendly manner. The persons, who are involved in working the task manually, have seen this project running and expressing **satisfaction** about the working procedures and the “**conversion handling**” incorporated in the project. Future enhancements can be made such as issuing user id to the user, where by the user can use that as a reference which specifies all his previous performance, the project work us stopped at this satisfactory level, due to time constraints.

8. REFERENCES:

- [1] MEDICATION REMINDER AND HEALTHCARE – AN ANDROID APPLICATION, Deepti Ameta, Kalpana Mudaliar and Palak Patel, Gandhinagar Institute of Technology, Gandhinagar, Gujarat, India.
- [2] Implementation of Text to Speech Conversion, Chaw Su Thu Thu, Theingi Zin, Department of Electronic Engineering, Mandalay Technological University, Mandalay.
- [3] Android App Stats Archived from the original on January 2, 2011. Retrieved December 31, 2010.
- [4] appfour. AIDE- IDE for Android Java C++ - Android Apps on Google Play
- [5] Android Debug Bridge | Android Developers Accessed December 27, 2012
- [6] Accessory Development Kit | AndroidDevelopersDeveloper.android.com. Retrieved October 2, 2012.
- [7] MIT Launches New Center for Mobile Learning. August 16, 2011.
- [8] App Inventor Classic | Explore MIT App Inventor. Appinventor.mit.edu. December 3, 2013. Retrieved March 13, 2014.

9. BIBLIOGRAPHY:

- [1] S.Chandragandhi M.Tech.,is currently working as Assistant professor in Computer Science and Engineering Department in JCT College of Engineerin and Technology Coimbatore.
- [2] A.Hari Prasanth is doing B.E-computer science and Engineering in JCT College of Engineering and Technology.His area of interest is java.
- [3] M.Govindharaj is doing B.E-computer science and Engineering in JCT College of Engineering and Technology. His area of interest is java.
- [4] R.Aravind is doing B.E-computer science and Engineering in JCT College of Engineering and Technology. His area of interest is java.