AUTOMATED HELP ASSISTANCE SYSTEM

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Abstract

"**Help Assistant Near Me**", an android application for mobiles and as well as **smart-watch** using **GPS technology** to trace the victim's exact location who is seeking for help from near-by Police Station (or) Hospitals from the minimum radius of distance. We here propose an android Help Assistant Near Me application for **Android platform** devices which sends the user location to near-by friends (or) family members with exact GPS codes as a message (or) a notification that can be opened through Google maps. The system is proposed to help the users who in need of help with any kind of issue (or) in anytime. Just touching a respective app in smart watch makes the way to connect with user and send the custom help me message to the friends, near-by police station and hospital automatically.

Keywords: GPS, Android Smart Phone's, Smart Watch, Emergency SMS, Android Platform, Android Application, Panic Button.

1. Introduction

In today's world, safety has become a major issue not only for women. Adequate assistance of elderly people in outdoor emergency situations is important for independent living and for increasing the sense of security among these most vulnerable people. The attention toward elderly people becomes more significant, because the demographic of aging population of the whole world is increasing, particularly in developed countries. The emerging research on Information and Communication Technology (ICT) to help and assist the elderly people with disabilities addresses a broad variety of needs.

These three questions have become a fixture on the national agenda, as has the issue of safety, or more precisely, freedom from violence. But women and girls have always thought about safety. How could they not, when the threat of violence is pervasive and shadows them from conception through their lifetimes?

The Indian women's movement has always raised the issue of violence against women (or more broadly, gender-based violence that is directed at anyone by virtue of their gender) and the violence that follows from structural inequalities like caste, poverty or identity. There is no city or country in the world where women and girls live free of the fear of violence. No leader can claim: this is not happening in my backyard.

With the sharp increase of the vehicles on road, safety and congestion have become two tremendous problems. Road traffic injuries (RTIs) and fatalities have emerged as a major public health concern, with RTIs having become one of the leading causes of deaths, disabilities and hospitalizations which impose severe socio-economic costs across the world. Chained accidents in highway result in numerous losses of lives and properties. On the other hand, sometimes a minor accident in downtown triggers traffic congestion, this situation is much worse in metropolis during the rush hours.

This project focuses on security system that is designed to serve the people who is seeking for help at any time by sending a message to their relatives or friends with exact location by pressing a single panic button .

EXISTING SYSTEM

We have a existing systems like women safety app which is used as women emergency purposes by sending an location When she pressed the alert button in her phone. It is helpful only in cases if she had the android phone with in her hands and the app is start work by pressing the alert button in her phone. This cannot be used without a phone with them and it gives the information to the only emergency services. It sends the location of the women only to the service centres.

Some defects in existing system are:

- There is no hidden Camera Detector which is portable to ensure our privacy.
- Monitoring was tedious
- Tracking of exact location is not possible
- Mischance in arriving rate
- The response time between attack and saving process can vary leading into the delay. It might not be possible to send the help instantly.

The motivation behind this project is to overcome all the defects in the existing system

PROPOSED SYSTEM

This application is use as security purpose. Using that user can directly connect with nearest hospital, police station through android mobiles and smart watch. In this system user getting the facilities like pressing the panic button, user current location sends to family members at regular interval SMS. In mobile phones we are getting a facility like calling to the selected contact and to the emergency services. In android smart –watch, it sends message to all contacts by touching the panic button which is already present in watch.

Features of proposed system:

- Send emergency message for service centers and also family members.
- We can also add alternative E-mail.
- Calling to the selected contact and emergency services through phones.

Advantages:

- User can get all types of assistance help and specially their number at one place.
- Low cost with high performance.
- Works round clock.
- Easy and fast to install.

WORKING PROCESS OF ASSIST ME MODEL:

The 'HELP ASSISTANCE NEAR ME', If the User is in danger the can take help assistance of an emergency services press the panic/emergency buttons in their android mobiles/smart watch.

After pressing the panic button assistance manager check the details that are valid or not. If it is valid it send the location through a message to near by friends, family members, All service stations.

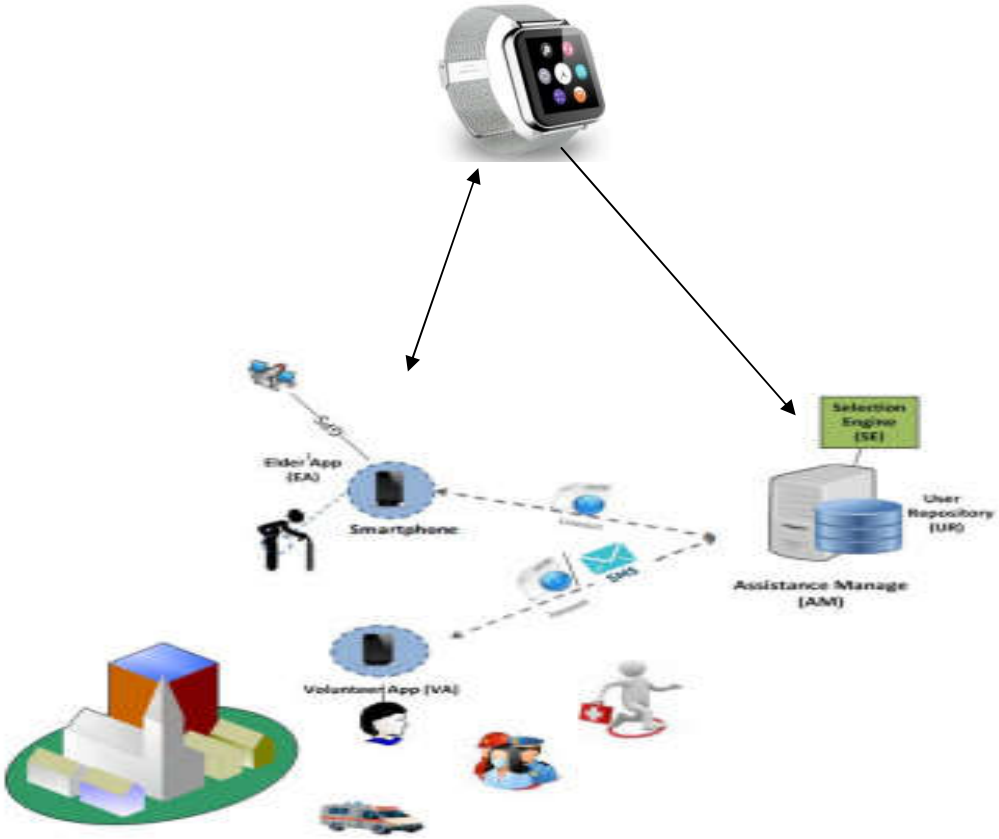


Fig 1: Assist me model

WORKING PRINCIPLE OF PANIC ALARM:

A **panic alarm** is an electronic device designed to assist in alerting somebody in emergency situations where a threat to persons or property exists.

A panic alarm is frequently but not always controlled by a concealed **panic alarm button**. These buttons can be connected to a monitoring center or locally via a silent alarm or an audible bell/siren. The alarm can be used to request emergency assistance from local security, police or emergency services. Some systems can also activate closed-circuit television to record or assess the event.

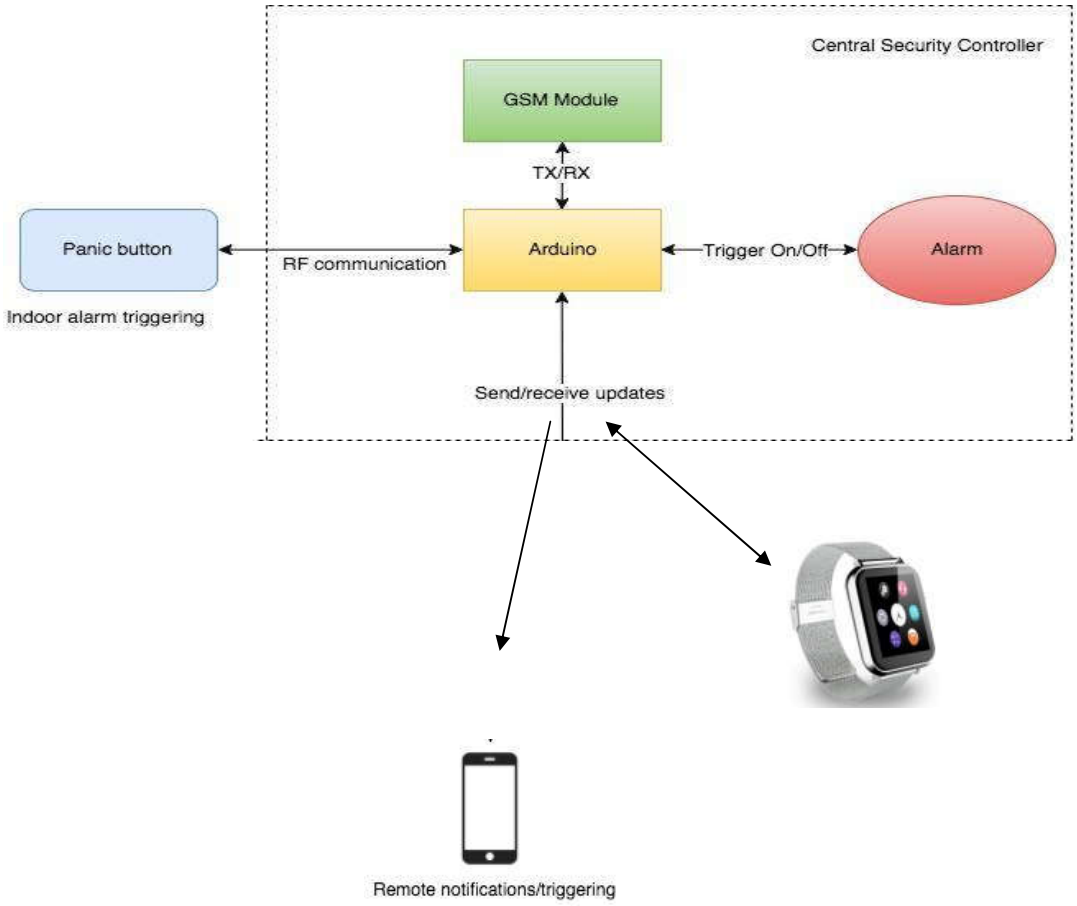


Fig 2: Panic alarm process

SYSTEM REQUIRMENTS

To be used efficiently, all computer software needs certain hardware components or other software resources to be present on a computer. These pre-requisites are known as (computer) system requirements and are often used as a guideline as opposed to an absolute rule. Most software defines two sets of system requirements: minimum and recommended. With increasing demand for higher processing power and resources in newer versions of software, system requirements tend to increase over time. Industry analysts suggest that this trend plays a bigger part in driving upgrades to existing computer systems than technological advancements.

Hardware Requirements:

The most common set of requirements defined by any operating system or software application is the physical computer resources, also known as hardware, A hardware requirements list is often accompanied by a hardware compatibility list (HCL), especially in case of operating systems. An HCL lists tested, compatible, and sometimes

incompatible hardware devices for a particular operating system or application. The following sub-sections discuss the various aspects of hardware requirements.

Hardware Requirements For Implementation:

1. Device with GPS support
2. Device with text messaging support

Hardware Requirement for Deployment:

1. RAM : 4GB minimum or more
2. Processor : Intel i3 or more
3. Data space: 500MB for Android Studio, at-least 1GB for Android JDK.

Software Requirements:

Software Requirements deal with defining software resource requirements and pre-requisites that need to be installed on a computer to provide optimal functioning of an application.
These requirements or pre-requisites are generally not included in the software installation package and need to be installed separately before the software is installed.

Software Requirements for Present Project:

Front End Software Requirement:

1. Android Studio

   In this project we used Android Studio offers even more features that enhance your productivity when building Android apps. Such as

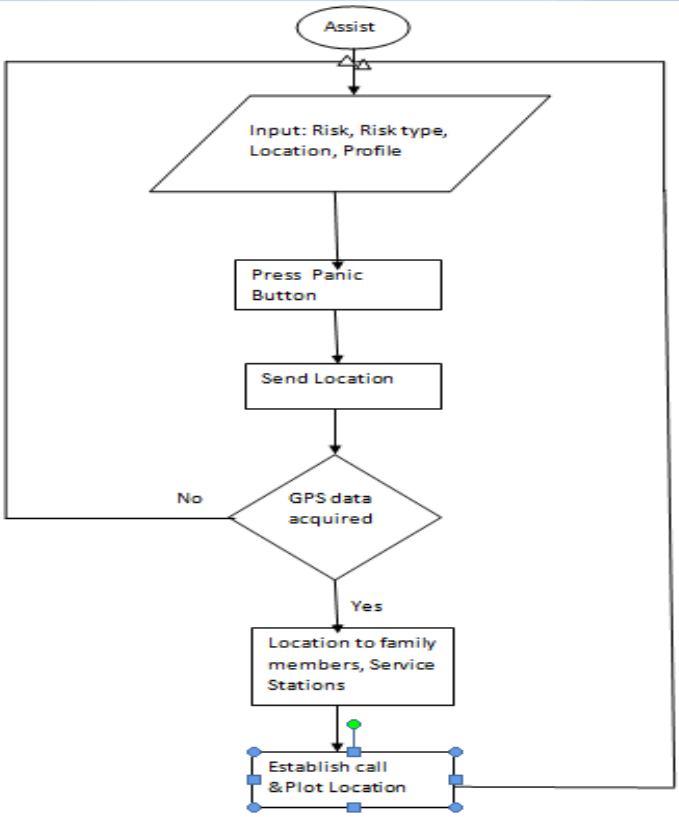
   a. A flexible gradle based system.
   b. Build variants and multiple apk file generation.
   c. Code templates to help you build common app features.
   d. A rich layout editor with support for drag and drop theme editing.
   e. Link tools to each performance, usability, version compatibility, and other problems.

2. JDK(Java Development Kit)7
3. JRE(Java Runtime Environment)
4. Windows or Linux Operating system

Back End Software Requirement:

1. Java
2. My SQ**L**

BLOCK DIAGRAM:



The Help Assistant Near Me application for **Android platform** devices which sends the user location to near-by friends (or) family members with exact GPS codes as a message (or) a notification that can be opened through Google maps. The system is proposed to help the users who in need of help with any kind of issue (or) in anytime. Just touching a respective app in smart watch makes the way to connect with user and send the custom help me message to the friends, near-by police station and hospital automatically Send the alert Alarm/message to the near by service stations, friends, family members.

RESULT:

1. **User Register:**

   The user can register his/ her details in this form. In this form he should fill the mandatory fields that is given in registration form and this storage will be connected to data base 'MY SQL'.

2. User Login:

The user enters user id and password and login into his/her account if the given credentials are matched, then he can enter into next page. He can also login with facebook or Gmail.

3. Add Contacts:

This page is used to add contacts and the message is sent to the only selected contacts in your phone. You may select all contacts.

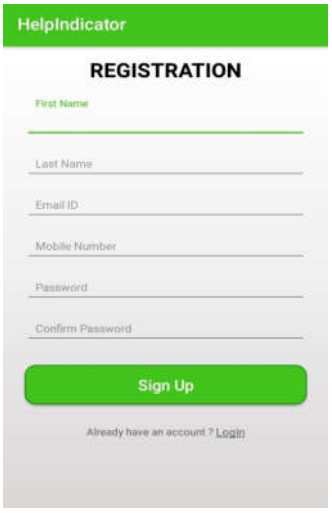
4. Panic :

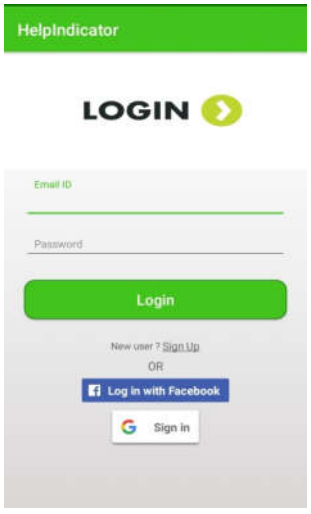
By clicking panic button, the message will send to the selected contacts and emergency services. In this page we are getting multiple options like send to one, send to all selected contacts, 100, 108.

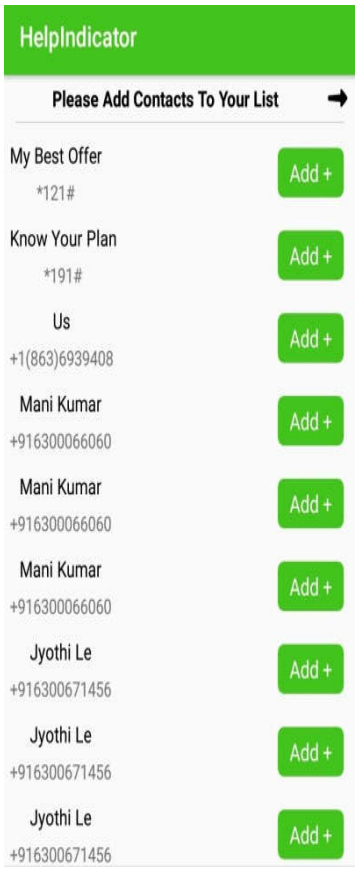
5. Logout:

The user can logout if they want and in this page we have selected contacts option and favourite call pick to view the contacts they already selected.

Output screens:






HelpIndicator
Please Add Contacts To Your List
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Add +
Know Your Plan
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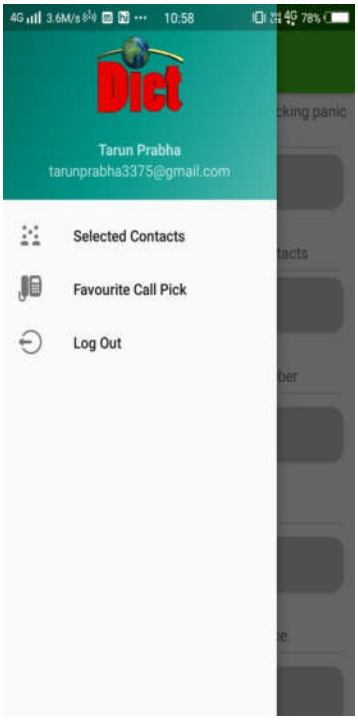
Home
You can send all messages at a time by clicking panic button!
PANIC
Send Location To Your Selected Contacts
SEND TO ONE
Call to your selected favourite number
PLEASE SELECT
Make Immediate call to police.
CALL 100
Make Immediate call to Ambulance.
CALL 108


10:58
Dict
Tarun Prabha
tarunprabha3375@gmail.com
Selected Contacts
Favourite Call Pick
Log Out

CONCLUSION

Finally, The User should click on the panic button is already available in the android mobile phones and then it automatically send messages to his emergency services.

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