

Women Safety Application

Prof. Vaishali Jadhao Assistant Professor, Gahina Ukey Student,
Chetan Rabbewar Student, Vrushabh Bhong Student, Sitanshu Mustafi Student

Project guide Computer Technology Priyadarshani College of Engineering, Nagpur

vaishalijadhao@gmail.com

Computer technology Priyadarshani College of Engineering, Nagpur Gukey21@gmail.com

Computer Technology Priyadarshani College of Engineering, Nagpur chetanrabbewar@gmail.com

Computer technology Priyadarshani College of Engineering, Nagpur Vrushabhbh1@gmail.com

Computer Technology Priyadarshani College of Engineering, Nagpur sitanshumustafi95035@gmail.com

Abstract: *In today's world it is very unsafe to travel alone, especially for women. Since lots of unexpected, and shameful incidents are happening around the globe. Problems may come from anywhere and anytime, as women are also growing equally like men so for that purpose they have to travel alone at night where ever they go, they have to travel alone in public transport as well, and for that reason we need to understand and solve this problem of women so they also should not feel any fear regarding their safety. This report represents an android application which will serve the purpose to rescue the women from unsafe conditions. As we all know that nowadays every individual carry their own smartphones and the uses of android applications have been increased rapidly so it is better to have such an android application which will provide a safe environment in public transport.*

Keywords: *Android, Database Management, PHP.*

I. Introduction

If we are to fight discrimination and injustice against women we must start from the home, for if a woman cannot be safe in her own house then she cannot be expected to feel safe anywhere. A recent article in India claimed that India is the fourth most dangerous place for women's to take public transport and the second worst for safety while travelling at night.

The most awful Delhi bus gang rape in 2012 is just the tip of the iceberg when it comes to the dangers of taking public transport as a woman. This rape incident occurred on 16th December 2012 at a place Munirka, a neighborhood in south Delhi which was a fatal assault. A 23 year old woman a physiotherapist was hit by a gang while she was travelling in a public transport (bus) with a male friend. Another such incident of TCS software engineer took place at Bhandup where the body has been found after two days near Kanjurmarg suburb, this incident was parallel just to the one evoked by Nirbhaya case in Delhi. One more case taken place in Mumbai where woman was travelling to her native place and she got kidnapped and killed. This is the small contribution taken which will provide safety android app for women.

Users will allow to scan the QR code placed inside the vehicle and the number plate of it will be sent in the text message format to the contacts which user selects. It lets your family and friends know your current via GPS tracker if your android device is connected to the network.

II. Literature Survey

The existing system of others application provides the user alerts to your closed ones or by standers with your location in a situation of distress or emergency. And will inform and update your closed ones if you are stuck in an unsafe place.

Sauver: An Android Application for Women Safety:

This app can be activated by a single click when the user feels the danger. This application sends the user's location to the registered contacts for every few seconds in the form of message. Thus, it acts like a sentinel following behind the person till the user feels safe. The key features of this application are along with the user's location, one of the registered contacts gets a phone call. Also, the registered contacts and GPS location are saved in a database. This app continuously fetch the location for interval of every 30 secs and send it to saved contact. So we can easily track the user and it will also send the location in form of URL or latitude and longitude coordinates of location.

A Mobile Based Women Safety Application (I Safe App):

The safety application requires the name and number of the person who is to be contacted in times of emergency. Users can add multiple contacts in the emergency contacts list. These are the people who will receive notifications or SMS in case of any emergency. All it requires is the user's action to tap an SOS button provided and it shoots messages as fast as the device can manage. Once the SOS button is hit, the people in the emergency contacts will get a predefined message like: I am in an emergency; followed by another message, which has the exact or approximate GPS location of the cell phone. The user can make audio or video call. This app provides necessary first aid measures that should be taken at the time of emergency situations. In this app user can add multiple contacts, all we need is just to trigger the SOS button and it will start shooting emergency messages as fast as device manage.

Abhaya: An android app for the safety of women:

This paper presents Abhaya, an Android Application for the Safety of Women and this app can be activated this app by a single click, whenever need arises to user. A single click on this app identifies the location through GPS and sends a message comprising this location URL to the registered contacts and also call on the first saved contact to help the one in dangerous situations. The unique feature of this application is to send the message to the saved contacts continuously for every five minutes until the stop button in the application is clicked. Continuous location tracking information via SMS helps to find the location of the user quickly and can be rescued safely. This app continuously send message for every 5 mins until the user click the stop button. The message contains the location URL and it also call on the first registered contact.

Safetipin- Complete Safety App:

The is a privacy security app having the troop of features; GPS tracking, emergency, important contact numbers, directions to safe locations, pins displaying unsafe and free from danger areas and a Safety Score. It drives in advance of exemplary women safety applications, and presents a vast range of features, so that they will help to practically plan and can give a counter attack to those spots in the locality. When a person is going to move to a new location that is unknown to him and if he or she want to know the safe areas, then this app will be much helpful providing the user a map based view of the location along with its safety score. Also, the person can select the areas on those he or she excited to go and can get knowledge about the risks about the area, so they can finally take safety measures. This app provide numerous feature such as GPS tracking, important contact numbers, directions to safe location, pins displaying unsafe and free from danger areas.

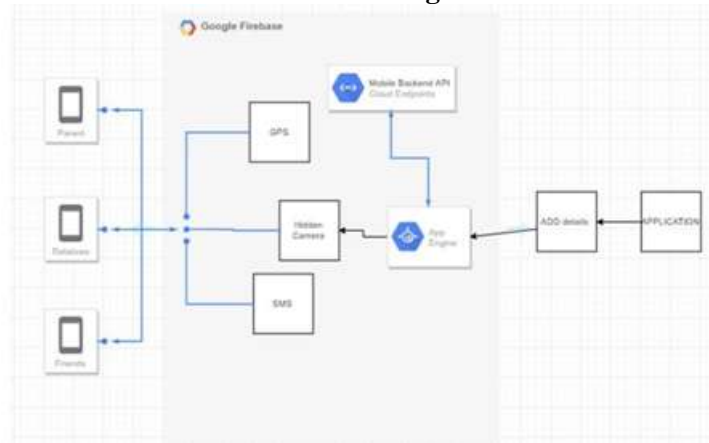
Women's Security:

The app is developed by App Soft India. The key features of the app are: the user has to save some details. These details include: Email id and password of the user, Email address and mobile number of the recipient and a text message. Then, app is loaded as a widget, so that when the user touches the app, it alerts the recipient. Another feature of app is that it records the voice of surroundings for about 45 seconds and this recorded voice, text message containing location co-ordinates of the user is sent to the recipient mobile number. The key features is that it requires details such as email address and password of both user and recipient. It records the surrounding voice for about 45 sec.

III. Problem Definition

Using Android we are going to implement GPS location. Through GPS, the current address of the user will be fetched and then we are going to send SMS and mail the current location with photos of the shameful people with wrong ideas by pointing the camera at the people and a siren will also blow to alert them that police might be connected and the user will store the people's details in database and on those details only SMS will be sent.

IV. Working



In this Application we are using the Firebase database for our database. Whenever the application is started firstly we are adding the details of the user and we save the details in the firebase database. Then when we press the button on the home Activity the libraries they get activated and the picture is clicked the location is fetched and then the messaging is done.

V. Design And Implementation

5.1 Module

Module 1:

Creating a GUI: First a user friendly GUI is created, so that it is easier for the user to perform necessary operations. The GUI is created on android studio.

Module 2:

Taking input from user: The input is given by the user. The inputs are taken through the GUI placed on screen. Icons and bars are given as input. After taking input from user the further actions, such as login, signup are performed as per the need of the user.

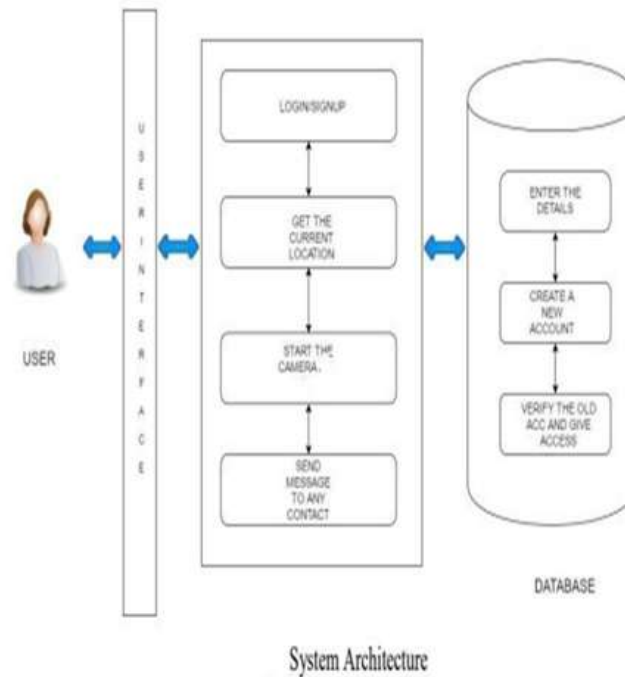
Module 3:

Performing the required function: All the things that user need to perform are provided in the GUI, the user just have to click them according to his/ her requirements. After taking the input the required things are performed like, getting the current address, sending the text message etc.

Module 4:

Display the output: The output will be displayed in the text format i.e. current location and pre-defined message which user can send to contact. And the confirmation message is also displayed on the screen after the message has been send successfully.

System Architecture



Description

System architecture of proposed method consists of mainly two tasks. In below architecture, we have a user with his/her smartphone by which user set GPS on, then the current location of user fetches. The next module is capturing image where user can simply click on icon to take a picture. All this processing does not require any internet connection. After this, now user will send an offline message to any of the contact in his/her list.

VI. Conclusion

Unfortunately the safety of women is in doubt and security is not concerned. Many headlines still coming across against women indicates that increasing trends of such sexual assault, rapes still happening in today’s generation. Around 80 percent of women are losing confidence and have fear towards the realization of freedom. So we are trying to contribute little efforts towards women which will ensure the safety and respect for women so that she can also have rights to grow equally like men. This mobile application is very much helpful for anyone. Using GPS location, the current location of the user will be fetched and then it will send a SMS with a pre-defined message and mail the current location with photos. The photos will be stored in the database. Here the user can take precautions before coming to the actual danger.

VII. Future Scope

As the technology emerges, it is possible to update the system and can be adaptable to desired environment. Because it is based on object oriented design any further changes can be easily adaptable. For future upgrades we will be linking our application with the nearby police stations location with their respective numbers & details, i.e. if at all if the message is send to the nearby police then it will be an advantage and police can reach at the location with their tracking devices.

VIII. Snapshots



Women Safety



Application Logo



Email

Password

LOGIN

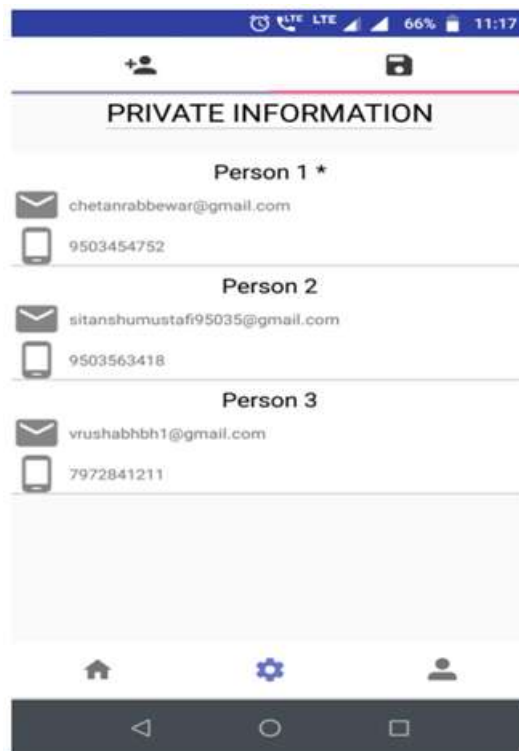
NO ACCOUNT YET? CREATE ONE



Login Page



Buttons Interface



Private Information Page

References:

- [1]. *Introduction to Android*: <http://developer.android.coguide/index.html>.
- [2]. *Android API*: <http://developer.android.com/reference/packages.html>
- [3]. *Java 6*

- API: <http://docs.oracle.com/javase/6/docs/api/>
- [4]. *Android Fundamentals*: <http://developer.android.com/guide/components/fundamentals.html>
- [5]. *The Java Tutorials*: <http://docs.oracle.com/javase/tutorial/>
- [6]. *Android User Interfaces*: <http://developer.android.com/guide/topics/ui/index.html>
- [7]. *Layout*: http://developer.android.com/guide/topics/ui/declaring_layout.html
- [8]. *Common Tasks*: <http://developer.android.com/guide/appendix/faq/commontasks.html>
- [9]. *Google Maps*: <http://code.google.com/android/add-ons/google-apis/maps-overview.html>
- [10]. *Iconography*: http://developer.android.com/guide/practices/ui_guidelines_icon_design.html
- [11]. *Sample Source Code*: <http://developer.android.com/resources/samples/get.html>
- [12]. *Android Training*: <http://developer.android.com/training/index.html>
- [13]. *Android Developer's Blog*: <http://android-developers.blogspot.com/>
- [14]. Women Safety application by the awesome Apps Inc which is in google play
- [15]. Stackoverflow: <https://stackoverflow.com>