**PROBLEM STATEMENT:**

To create a high reliable security application for the safety of women.

The basic aim is to track the current location of the person which has an android enabled mobile by extracting the longitude and latitude of that target person.

**NON FUNCTIONAL REQUIREMENTS:**

Response Time: As every single second matters in case of emergency, the application should be very user-friendy and should quickly respond to the users.

It should also be highly reliable and secured.

**EXISTING SYSTEM :**

1. **VithU App**:

This is an emergency app initiated by a popular Indian crime television series “Gumrah” aired on Channel [V]. In this app when the power button of the Smartphone is pressed twice consecutively, it will begin sending out alert messages with a link to the location of the user every two minutes to the contacts fed into the app.

1. **ABHAYA App**:

It is an Android Application for the Safety of Women and this app can be activated this app by a single click, whenever need arises. A single click on this app identifies the location of place through GPS and sends a message comprising this location URL to the registered contacts and also call on the first registered contact to help the one in dangerous situations. The unique feature of this application is to send the message to the registered contacts continuously for every five minutes until the " stop " button in the application is clicked.

3. **VANITHA ALERT**: -

This app is developed by ABC Mobile Learning Communication. Just click on '' HELP” button on our mobile's home screen in an emergency situation can deliver a distress text message to the registered mobile number ,E-mail id, face book id seeking help and indicating the user's.

4. **RAKSHA – WOMEN SAFETY ALERT**: -

By clicking on this app, it sends location of the user to the contacts registered and the user can also get the details of the location of the contacts. A distress signal just by pressing a single key sends out a loud buzzer to our near and dear ones. We can add multiple contacts to this app and when there is no data connection, this app alerts the contacts by sending SMS.

**PROPOSED SYSTEM**:

To develop a system for android users for keeping track through several applications. This application uses GPS for identifying the location of the person in trouble and the system can be divided into two modules:

1. First module can be the victim’s phone that is the root device which uses 4G/3G/2G data connection for tracking the location of the victim through GPS.

2. Second module can be the mobile phone of registered contacts either police or friends or family members which receives the message containing URL of location of victim that is sent from the root device.

GPS

**BLOCK**

4G/3G/2G data connection and location is enabled.

ANDROID

APPLICATION

Emergency Message send to the registered contacts

APP

STARTED

From the above block diagram when we click on the app, it first checks whether the location settings, data connection settings in the application are on or not. Then, it tracks the location of the victim via GPS and sends these location co-ordinates in the form of URL through message to the registered contacts. Here, registered contacts means the contact details that are saved in the application during its initialisation. Now, at the received device, by clicking on the URL in the message, it spots the exact location of the victim. Also, as the message containing victim’s location is sent for every two minutes from the root device, the victim can be tracked wherever she goes and can be rescued safely and quickly.

**UNIQUENESS**:

In the existing systems, we have mentioned many Android applications having similar features to our application. This app can emit a loud scream. It might distract the pursuer and give you those precious few seconds.

In practical situations, the victim may not be kept at one place standing, she may be moving around . Practically after sometime she may not be present at that place. In this application the location is sent continuously for every two minutes till “STOP” button in the application is pressed. So, even if the woman is made to move around in the city, because of this feature of continuous location tracking, she can be rescued quickly and safely. Also pressing any of the volume button 2 times consecutively, the alert message and the location should be sent to the registered contacts.

Also, one of the contacts will be receiving a call, sometimes there may be chance for people not seeing the SMS, but after receiving the call they get alert and can look at the SMS and can identify that their near ones is in danger quickly. In case of an emergency, the app also lets users take a picture or recording. The picture or recording is immediately emailed to everyone in the emergency contact list. It works even **without a working Internet connection or network**, which could make the difference between life and death.

**OPERATIONAL METRICS:**

Getting the location of the user and sending them to the contacts.

Sending the location for every 2 minutes, making a call to one of the contact.

Ensuring that the message is sent even in case there is a network problem.

**REFERENCES:**

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