

# ANDROID WOMEN SAFETY APP

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**Abstract:** In today's world, million people using smart phones have increased hastily. The odious incident that aggravated the complete nation have waken us to go for the safety issues and a swarm of new apps have been urbanized to afford refuge systems to their phones. This Android Application can be activated by a single click on this app identifies the location of place through GPS and sends a message comprising this position URL to the registered contacts and also call on the first registered contact to help the one in treacherous situations. In this application if women choose unsafe the message (template) will be sent to our minimum 10 favorite contacts with the location. The application has an additional key facial appearance like "Alarming neighbors with loud noise", "Auto dialing", "Finding the location of the nearby police station and hospitals" etc.

**Keywords:** Android App, Alert Message, Harassment, Smart phone, Women Security.

## Introduction:

In Today's World, the safety of women is in peril especially in India. The rate of crimes against women is not decreasing, but in fact increasing at unalarming rate, especially harassment, molestation, eve-teasing, rape, kidnapping and domestic violence. Many preventive measures have been taken by the government to stop these misbehaving activities, but still has

not affected the growing rate of these crimes and has remained unaffected. The problem of sexual harassment in the workplace is increasingly coming out day-by-day. Sexual harassment as a workplace is unwanted behavior of a person that causes discomfort, offense or distress to the other. The majority of such cases are happening to women by men working at a high position in an organization. Women are getting kidnapped at every 44 minutes,

raped at every 47 minutes, 17 dowry deaths every day. The fear of harassment against women is not only the condition at outside, but it may also happen in homes, Women are not so physically fit as compared to men so in case of a need a helping hand would be a boon for them.

### Application, Requirements

To develop the application android based mobile application the station and the environment of the adjacent has to be interviewed then the hazard and the mistrustful activates should be notified to the device by the user. If the device detects the difficulty, then only other course of action creates the concentration for reporting to the authority.

**Time Schedule:** When the apps get installed it traces out the IMEI, SIM, mobile number and supplies on the isolated server, the daily agenda list gets uploaded by the individual from her mobile and get tracked as per the schedule list, if there is any movement away in the schedule they relatives of the person will get an SMS along with the present site and the schedule and Police station members will get a call from the mobile.

**Tracking:** The GPS will frequently broadcast the latitude and longitude of the person and via GPRS we will store the entire transmitted cloud server; if the person is lost we can mark out the end place with this kind of approach.

**Notification:** When the individual is in difficulty, when she presses an alarm in the application all her associations, charitable organization members, police men will acquire an SMS with her full contact details along with the existing location from where the communication has been delivered. Using the IMEI number the policemen can trail the location where they are traveling.

**Network provider support:** Network provider has got the significant role, by sending the instructions through the short message type to the different applications.

**GPS (Global positioning system):** The GPS, elaborated as Global Positioning System, is a satellite based direction-finding system made up of a network of 24 satellites positioned into orbit by the U.S. GPS works in any weather conditions, every place on the globe, 24 hours a day. There are no contribution fees or setup charges to make use of GPS. A GPS can help us to conclude precisely

where we are at any given instant. Not only can a GPS provide us the name of the street we might be wandering on, but many GPS systems can also furnish us the precise latitude and longitude of where you are located. On the other hand, Android mobile podium is becoming more admired to the users for its multi-dimensional purposes. Tracking System on a device uses GPS and any mobile phones having an Android operating system for pathway the location of a person whenever essential.

## System Study

### Existing System

The women have to phone up a number to call a police or hurl a Short Messaging Service (SMS) to the scrupulous subscriber code, after they received the service they will get in feel with you later and there is no time to make a call or SMS. There are also so many unpaid assistant organizations all over the world to help them, but they could not able to get those communications.

### Proposed System

We will be tracking the location of the person via GPS and storing the details of the up to date location into an inaccessible

server via GPRS repeatedly, we will also be tracking the schedule of the person as per the schedule list which is being uploaded by the person and we will be sending SMS to the associations of the anxious person about the schedule their current location of the disturbed person that time. So that they will come to know about the status and if amazing is wrong, we will be having another set of oppositions to provide a call to a police, community workers, volunteer organizations, etc.

### Features

- ◆ This project presents an alert system for Women safety detection.
- ◆ The system provides a realizable and efficient.
- ◆ The application is used Advanced Encryption Standard (AES) algorithm.
- ◆ The application is easier to use all the woman.
- ◆ The application is normal budget.

### GPS Module

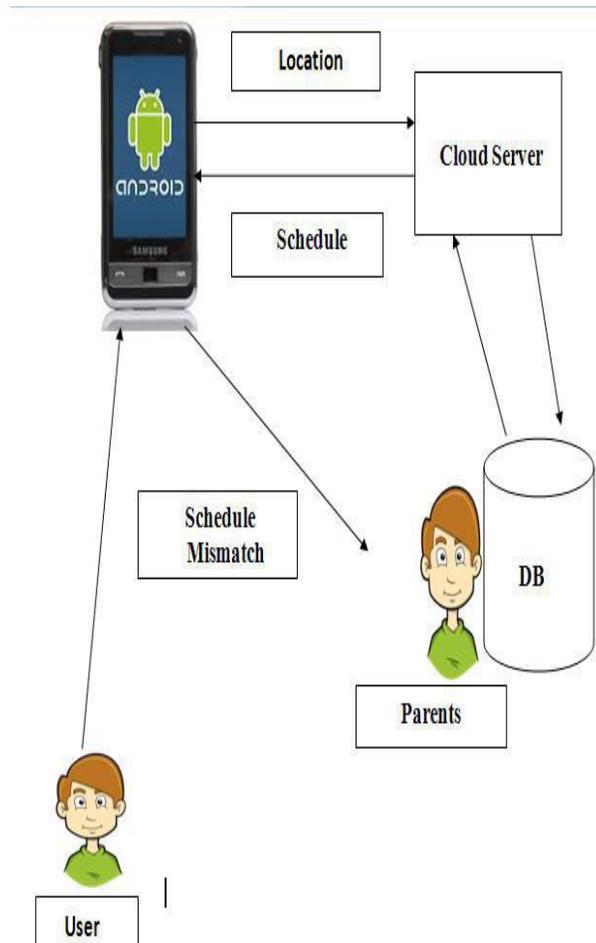
The Global Positioning System is a scene follower. It tracks the recent location in the structure of longitude and latitude. The

GPS Coder Module will use this information to look for an exact address of that location as the street name, nearby connection etc., which is unswervingly associated to USART of the micro controller provides steadfast positioning, navigation, and timing services to universal users on an incessant basis in all weather, day and night, anywhere on or near the Earth. . In case if GPS is disabled, then the system will only propel the longitude and latitude through SMS. So, the Internet is obligatory.

### GSM Module

GSM module is used to find an announcement between a computer and a GSM-GPRS system. Global System for Mobile Communication (GSM) SIM card is inserted within the mobile device to send and take delivery of the messages victimization GPRS. The GSM SIM card number is registered with the organism. With increasing usage of GSM, network services tetragon measure prolonged on the far side speech to include several substitute custom applications, machine computerization and machine to machine communication. It operates at either the 900MHz-1800MHz frequency band.

### Architecture



### Methodology

This work builds up a women's safety scheme which provides the current spot details of the women in peril using GPS and GSM modules. IoT module will path the current location of the fatality and keep informed in the webpage. In addition to location tracking, it also provides some safety and security to women like giving electric upset to the attacker.

## Future Enhancement

As a future scope, this application can be integrated with the law enforcement database, which includes all the phone numbers of cops. Some use case such as rescuing victims, when the mobile network not available, after initial alert or switched off condition. Further it can be developed for IOS and windows mobile platform. Thus this application helps women in big way from unsafe conditions.

## Conclusion

The difficulty of the women's safety is increased rapidly in this atmosphere, so I proposed as an effective Android application to avert such type of the mistrustful or natural tragedy, by alerting the concern establishment using the android mobile phone which helps to stop such type of unlawful activates and to trace the concern. The proposed design will deal with decisive issues faced by women and will help to resolve them with scientifically sound equipment and ideas. The merit of this work is it not only provides protection and it also provides security by means of self-defense mechanism. The crime against the women can be now brought to an end with the help of real system implementation of the

proposed model. With supplementary research and innovation, our project can be implemented on a small wearable device like a watch, wristband which will be built using GPS and GSM modules. On triggering this system the GPS data will acquire by the GPS module and will encode into a valid Google maps link and send through text messages to enlist family, friends.

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