

Women Safety Android App

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ABSTRACT:- The safety of women is a concern of increasing urgency in India and other countries. The primary issue in the handling of these cases by the police lies in constraints preventing them from responding quickly to calls of distress. These constraints include not knowing the location of the crime, and not knowing the crime is occurring at all: at the victim's end, reaching the police assuredly and discreetly is a challenge. To aid in the removal of these constraints, this paper introduces a mobile application called WoS App (Women's Safety App) that provides women with a reliable way to place an emergency call to the police. The user can easily and discreetly trigger the calling function by shaking her phone, or by explicitly interacting with the user interface of the application via a simple press of a power button of the device. A message containing the geographical location of the user, as well as contact details of a pre-selected list of emergency contacts, is immediately sent to the police. This paper describes the application, its development, and its technical implementation.

removal of these constraints. This paper introduces a mobile application called WoS App (Women's Safety App) that provides women with a reliable way to place an emergency call to the police.

Women suffering violation are even denied of the basic human rights. Gender based violence has become a national as well as international agenda because of decades long struggles by civil society accompanied by women's movements. Though there are unprecedented numbers of laws against domestic violence, sexual assault and other forms of violence in each and every country to protect their female citizens to become a victim of any such violence but they are facing major challenges in implementing such laws. Thus making the society unjust and insecure for the women as in majority of cases the violator remains unpunished. We all should focus on ensuring a society which is secure for all the women around the globe so that they can experience equality and justice. In a sexual act of violence the aggressors are confident of the power they exercise. The defense strategy used by females needs to be revolutionized by adopting modern technology and gadgets to protect them from their oppressor. This device is an answer to all the women who deserve a safe and secure world.

I. INTRODUCTION:

From the very early time, women use defensive strategy for their safety but we are still not successful in avoiding violence against women. It's time to adopt attacking strategy against women violence and eve teasing with the help of this device.

As We Know, people using smartphones have increased rapidly and hence, smart phone can be used efficiently for personal security or various other protection purposes. The main objective of this paper is to design and implement a highly reliable system for protecting women from being harassed. The current practices in female security broadly fall into different categories ranging from android applications developed for mobile phones, and extend to fashionable apparels that can be wore and carried in day to day life. However, our focus is on creating a safety system that merges the benefits of existing techniques and brings about a solution that ensures both defense and creation of a seamless pathway to initiating legal procedures, if any; have to be taken by the victim.

The primary issue in the handling of these cases by the police lies in constraints preventing them from responding quickly to calls of distress. These constraints include not knowing the location of the crime, and not knowing the crime is occurring at all: at the victim's end, reaching the police assuredly and discreetly is a challenge. To aid in the

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. Continuous location tracking information via SMS helps to find the location of the victim quickly and can be rescued safely.

In today's world, it is not safe for a person to travel alone at night especially for women; it will be unsafe to travel alone because a woman is not highly strong as men. To provide safety for women the good way to reduce chances in becoming a victim of violent crime is to identify and call on resources to help you out of unsafe situations. Having safety app on your phone can diminish our risk and bring assistance when we require it. Unlike the other applications available, which work only at the time of Emergency or Danger, this app can be used as a safety or precaution measure. As it is said that precaution is better than cure. Our

motto in developing this app is to provide a safe environment through smart phone as today most of the people are carrying smartphones to wherever they go. A message containing the geographical location of the user, as well as contact details of a pre-selected list of emergency contacts, is immediately sent to the police. This paper describes the application, its development, and its technical implementation.

The basic steps of algorithm are as follows:

Loop is setup to perform the following tasks:

1. Press the Power button twice
2. Your Position will have turned into red
3. Information is sent to the processor
4. Location is tracked through GPS
5. Police can easily see your location via admin panel.

“Help” message is sent to 5 predefined contacts through GSM along with the location.

II. LITERATURE REVIEW:

Recently many women safety tools were developed like fight back, guardly, on watch, family locator, sentinel, street safe, circle of 6, b safe, cab 4 me, . Security for women has become a major issue in most of the countries. Survey results shows that every year around 25000 crime against women were booked across India. From the last ten years, the statistics among women abuse, sexual harassment have been steadily increasing. It has become mandatory to come up with a solution to protect the women from being a victim and to reduce the attacks. The main objective of this paper is to design and implement a highly reliable system for protecting women from being harassed.

According to paper. The location tracking system is an important part of this project since it makes sure that help is on the way for the victim. Hence, it is required to be faster and efficient. Location tracking intends to update the location of the victim continuously to either the police or the family of the victim. The programming has to be such that the latitude and longitude of the victim has to be reported at multiple instances and at different times. The most convenient form to inform about location is a Short Message Service (SMS) due to obvious and wide use of cell phones by the masses.

III. EXISTING METHODOLOGY:

The recently developed solutions for the safety of women include Smartphone Applications, Intelligent Security Systems and Wearable devices.

1. Suraksha is a security device that can be activated in three ways; a voice command, click of a button and when it is thrown with a force. Upon activation, this system sends the location of the device to pre-selected contacts via an inbuilt GSM module. But during times of distress, it might not always be possible for the user to carry this device in her hand. Also, the attacker might notice the device that the victim is holding.

2. Another such solution is a one touch alarm system designed to look like a watch. The GSM and GPS module within the device is used to send the user's location to preset SOS contacts when triggered by pressing a button. This device may be aesthetically unappealing to the user and might be noticed by the attacker,

3. Another solution suggested installing an Intelligent Security System in public places that would detect the facial expressions of women. If the expression was suggestive of anger or fear, a message would be sent to the control room. But in situations where a woman is angry or upset over any other issue, a false alarm will be triggered. Also, it is not possible to install such surveillance cameras in all areas,

The objective of research work is to create a safety system in the form of a portable safety device for women, that does the following tasks:

- Victim has to press SOS given on the screen, when she is in such condition
- Alerts family and police and gives location coordinates of the woman being attacked when there is connectivity of Internet.
- Captures and stores an image/video of the attacker to maintain a proof for legal actions.
- Send the Location of Victim via Message.

IV. PROPOSED METHODOLOGY:

As We Know, in existing system Victim has to press SOS given on the screen to send her location to police and selected contacts. In existing system, the APP will alert to family and police by sending location with the help of internet connectivity. The Existing System will send the message also of victim's location to selected contacts. It also captures the photo/video of attacker to take the legal action.

In Our System, we provide the victim to better security i.e. instead of press SOS on screen, victim has to press power button twice to send the alert to police and selected contacts even if she has no connectivity of internet or GPS.

The system will send the continuous location of the victim's after every one-minute i.e. provides better location, if she is moved from one location to other.

The main feature of our system is, we provide the admin panel to police, so they have the system where police as well as

referral contacts can see the any such case occurred or not. When victim press power button then victim's location will highlight, so police nearby to the victim can easily reach to protect the victim.

The objective of our system to form a portable safety device for women, that does the following tasks:

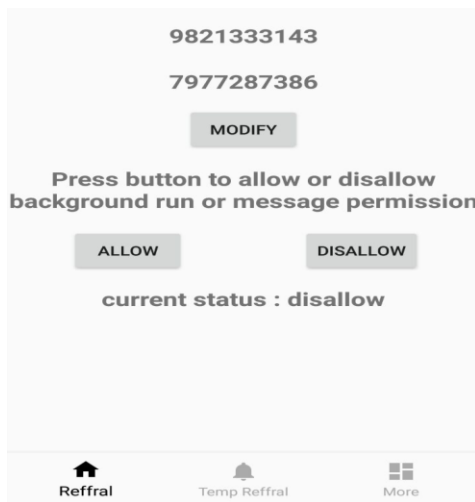
- Victim has to press power button twice,
- The Location will be send without having connection to Internet
- Alerts family and police and gives location coordinates of the woman being attacked.
- Send the continuous Location of Victim via Message when moved from one place to another place.
- Provide the panel to Police so police can easily reach to place to save victim.
- User can use Temporary Referrals (persons which are temporarily around user)

V. RESULTS:

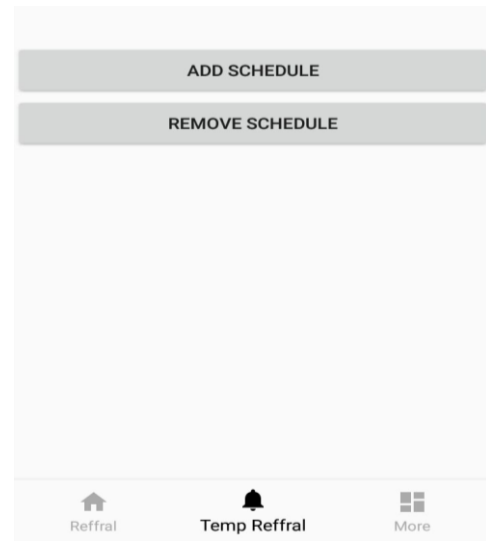
All the experiments are performed in Android Studio. Victim has to press power button twice, without having connection to Internet. This app will give Alerts family and police and gives location coordinates of the woman being attacked. This system will Send the continuous Location of Victim via Message when moved from one place to another place. This system will Provide the panel to Police so police can easily reach to place to save victim.

VI. IMPLEMENTATION:

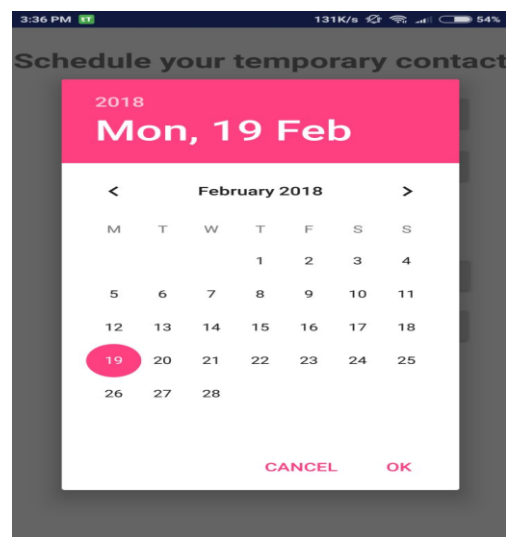
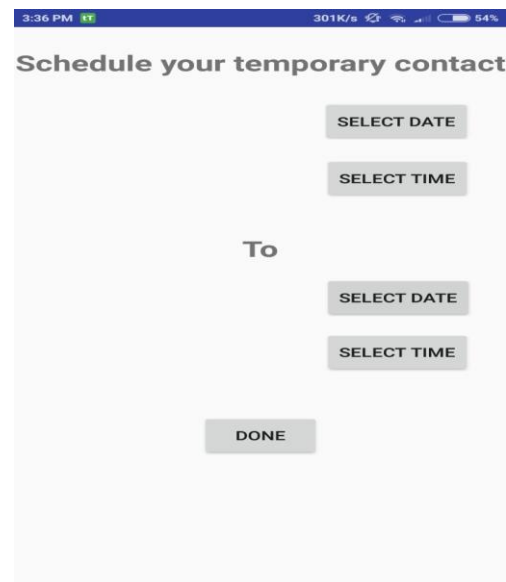
1. Referral Contact

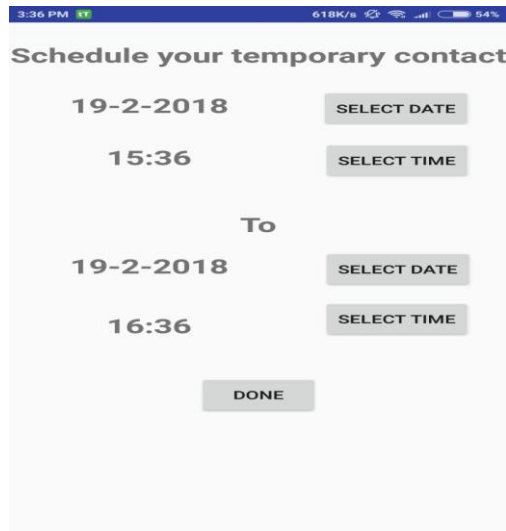


2. Temporary Referral Contact

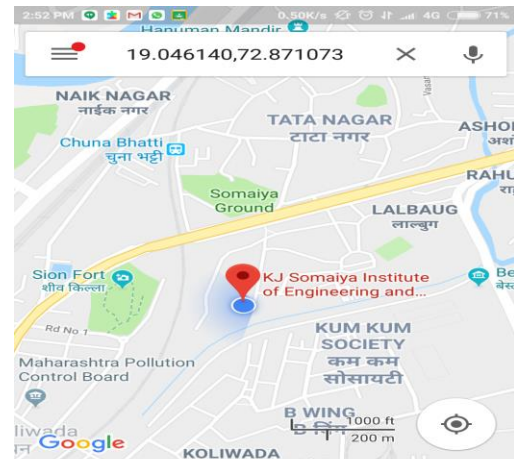


3. Schedule Temp Referral duration





6.Location on Map



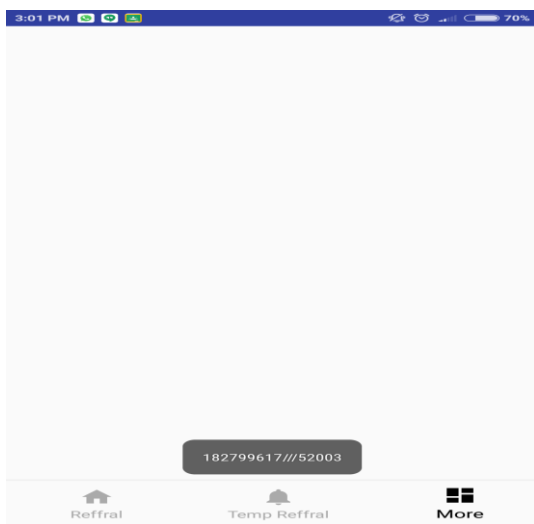
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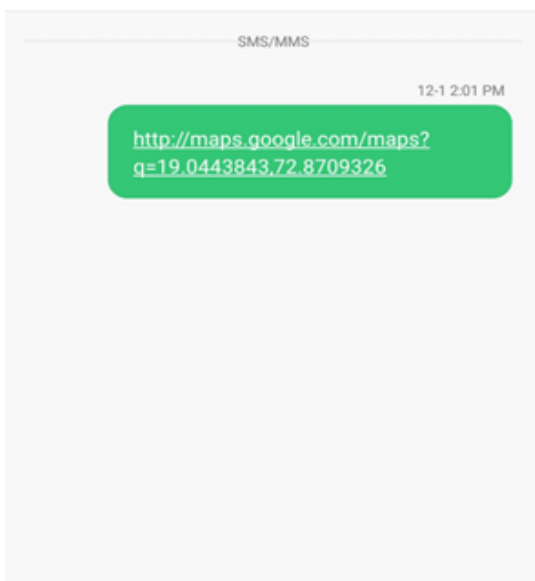
MORE INFO

DIRECTIONS

4.Offline Tracking using lac and cid



5.SMS with Location



App will activate by pressing the power button thrice. this feature is implemented by using the broadcasting the hardware button listener which continuously check the hardware button press and applying little algorithm that check the power button pressed 3 times.

Referral and Temporary Referral usage the mobile file system to store the respective contact detail.

The implementation of location tracking features are done using 3 types such as using GPS, using internet or offline by using mobile network lac and CID. In GPS we are using the mobile GPS activity to track the location and get the latitude and longitude. In internet type we are use the internet to get the respective location and in offline type we use the mcc, MNC, lac and CID of current network provider in mobile.to convert the lac and CID get from network provider will converted to the latitude and longitude using the unwired lab API.

Location information will send to respective referral via SMS.

VII. FUTURE SCOPE:

Until now, we have achieved the goal of location tracking. However, the streaming of images should be such that any person in the world can find the stream if it knows the IP address of the device. Thus image streaming now needs to be taken from intranet to internet and we mentioned as to provide admin panel to police will be beneficial to decrease the rate of such cases.

VIII. CONCLUSION

In this paper, we have proposed the designing and implementation of a safety system for women in the form of application. Going serially as per the objectives mentioned, a

location tracking subsystem was successfully implemented and the corresponding results were logged. The further implementation of the system will be performed in accordance with the goals mentioned in the future scope. The paper also describes the GPS technology so that the location of the victim can be traced using latitudes and longitudes.

IX. REFERENCES

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