

# Human Sefty Android App

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**Abstract-** *In today's world, people using smart phones have increased rapidly and hence, a smart phone can be used efficiently for personal security or various other protection purposes. The heinous incident that outraged the entire nation have waken us to go for the safety issues and so a host of new apps have been developed to provide security systems to women via their phones. This paper presents Above, 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.*

## I. INTRODUCTION

Women are accomplished at mobilizing diverse groups for frequent causes. They often work across racial, sacred, opinionated, and intellectual divides to encourage tranquillity. We are aware of importance of women's security, but we must recognize that they should be well secured. A Woman is not much powerful when compared to men physically, in a crisis situation and needs a helping hand to relieve them. The best way to minimize chances in becoming a victim of violent crime (robbery, sexual assault, rape, domestic violence) is to identify and call on resources to help you out of unsafe situations.

Whether you are in instant trouble or got separated from friends during night and do not know how to get home, having these apps on your phone can diminish your risk and bring assistance when you require it. In the light of recent outrage in Delhi which shook the nation and woke us to the safety issues for our daughters, public are gearing upbeat in different ways to fight back. A swarm of new apps have been developed to provide security systems to women on their phones. Here, we introduce an android app that ensures the safety of women. It reduces the risk and helps us in need by identifying the location of person who is in danger

## II. LITERATURE SURVEY

Research has been made on projects which are related to smart mirror project. Here are some projects about smart mirror discussed about their work. In 2003 Phillip sunveiled their Mirror TV that was built using the same principles that of smart mirrors. Their product was a normal TV that was put behind a two-way mirror so that the TV would appear as a mirror when turned on and as TV when turned on. They also had an option to have the mirror be larger than the TV. A usage example presented by Phillips was to have the children watch cartoons while brushing their teeth at the same time.

Later in 2005 Phillips announced their research project My Heart that built upon the idea of an informative mirror. While their original Mirror TV was simply a TV that also functioned as a mirror, the My Heart project would integrate a display to showcase various medical statistics. However, this project required on body electronics to collect and analyse the data. The mirror itself simply served as an informative display.

James Law Cyber texture developed a commercially sold smart mirror in 2011. This mirror is more in line with the smart mirror we've come to know today. The product consists of a 32"LCD-display covered by a 37" two-way mirror. The display can show weather forecasts, stream internet, TV, the current time and various widgets. The smart mirror has numerous input methods such as remote controller, smart phone app and onscreen virtual keyboard.

Sutar Megha, The Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act,2013 is a legislative act in India that seeks to protect women from sexual harassment at their place of work. Today women are playing an important role as a president primeminister, speaker of the Lok Sabha and even in the field of aeronautics, military, IPS, IAS, etc. Even today women have achieved top positions in job and society, yet they are facing problems such as physical harassment and the sexual assault. The cases of harassment and rapes on women are increasing hence security issue for such woman is more important. So, it is essential to develop a system to provide Security to women In this he devised a system allows women to protect themselves from attackers.

In recent days the attacks on women are increasing and sometimes they are not even able to take their mobile and dial-up to police, this system will help women in such situations to inform about attacks and also in giving their exact location to a nearby police station for necessary action. In this, the author designed a device, in that, by pressing the button of the device a message along with her location will be transmitted by the system to the police station and her few relatives, so that they will get aware of her current situation.

In the existing systems, we have mentioned many Android applications having similar feature to my application. In all those applications, victim's location is sent only once to the registered contacts in different forms like SMS, EMAIL etc. But in practical situations, the victim may not be kept at one place standing, she may be moving around. So, in all those applications, we can know only one location immediately after the start of the application, but practically after sometime she may not be present at that place.

The unique feature of my application is location is sent continuously for every five 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, 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

### III. PROPOSED METHODOLOGY

In this project, The device will also send an emergency message to the nearest police station with location information via RF technology which will help the police to reach the area immediately and provide help. In this Project, we are designing a Android Application which can carry by woman every time and they can use it in emergency situations to alert neighbours, send information to family member and to nearby police station.

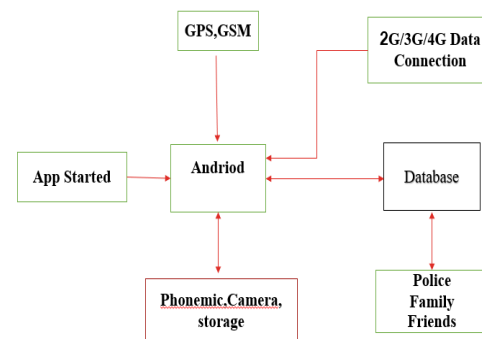
When you click an the application, there is a thread and then it leads title main page, which consists of simple user interface. Depending upon the problem, we can choose the icon, which will guide the user during emergencies'. When you click on the following icons the following pages like hidden camera detector, women Security, SOS message, video recorder pages will be opened.

In our application, the user gives the input either manually or by the volume button. First the user starts the application by going inside it by clicking on the application icon. Then a

thread of 2 seconds is entered which displays the name of the application.

Then after this process ends, the user interface where the user can interact with the application is displayed. This page lets the user interact with our application. When the user clicks on the each icon, it leads to that respective page'. The 4 different icons used in our application is the woman safety, SOS message, video recorder, hidden camera. When you click on the emergency button (volume key+ power button), the application gets opened automatically then sends an emergency message and audio is recorded and sent to the pre-set contacts.

### IV. BLOCK DIAGRAM



### V. APPLICATION DEVELOPMENT

#### A. Interface Design

The user interface of the application was designed keeping in mind the need for simplicity. The use of the application was intended to be straightforward, as it would be accessed primarily in times of crisis, apart from the initial entering of emergency contacts. The home page of the application has PANIC BUTTON. Action Bar on home screen of app consist of Fake call and Set up contact button and menu button which consist of Help and About us option. On the set-up contacts screen name, phone number, and the email address of their emergency contacts is to be entered. The simple form allows the user to easily enter the required details. In Fake call the victim will receive call from helpline number 100. The bright, clear-cut buttons on the home page, colour coded for emphasis, facilitate speedy use. It is worth noting that in most use cases, the user would not open the application and press the PANIC button on the user interface, but would instead press the power button certain number of times to activate the application on the mobile phone.

#### B. Technologies used

The development of Belief made use of the technologies below:

- Java, XML and Android Studio Framework for the front-end user interface
- Java for native platform code to enable waiting for the trigger
- SQLite for management of the database
- SQLite for communication between front-end and backend of the application
- Android SDK to build an application supported by Android.

### C. Technical Implementation :

The user interface of the app was coded in java/xml and android studio framework. The android services were used for implement the existence of the application as a background service, to enable Power key press detection to send the emergency message consisting location to the trusted contacts as well as recorded voice and captured images.

For the trigger mechanism, native java code was used. The back-end of the application was implemented using SQLite and MySQL for database querying. Fake call was also implemented using java code which makes the fake incoming call when the fake call button is pressed.

An open-source model was followed while developing this application, allowing rapid implementation and deployment elsewhere of the platform developed without the need to reinvent the entire system.

## VI. FUTURE SCOPE

As the technological changes or new requirement from user to enhance the functionality of product may requires new version to introduce. Although the System is complete and working efficiently, new modules which enhance the system functionality can be added without any major changes to the entire system.

Among the various modules few are identified, which couldn't be included in the last increment due to time constraints. Hence, the advance technology makes the system more robust and reliable. As the new modules provide the functionality which enhance the safety. This mobile application is helpful in future when any problem arises in travelling or any kind of situations.

### New Future:

- Click volume up button to active camera and start video recording.
- Click volume down button to active camera and start to click photos.
- Click three time power off button to active application.
- When application is open the app force to android device does not show power off logo ,restart and aeroplane mode.

## VII. ADVANTAGES AND DISADVANTAGES

### Advantages :

1. Sophisticates security
2. Alert message to mobile phone for remote information
3. GPS Module should be handle smoothly.
4. Its Free Of Cost.

### Disadvantages:

1. When Power is off then the total system is off, so always required battery.
2. GSM Module should be handle difficulty.

## VIII. CONCLUSION

This is the "Android Application for women and human security system " which is very useful application mainly for girl's safety . When we feel that we are in emergency situation, for example travelling alone in the Auto/Caba night time we can use this application.so that on one click we can send our location to our family members and to any police stations. So once we click on button it continuously send updated locations mes-sages to all authorized persons and we can stop using password. So this application is having both safety and security which needs the engineering code of con-duct which is essential in the today's world The sys-tem is based GPS and GSM locatino services.

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