

# Helping Hands : An Android Based Women Security System

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## ABSTRACT

Numerous terrible incidents have been occurring for woman's situation. As per the reports of WHO, NCRB-social-government organization 35% Women all over the world faces an unethical physical harassment in public places such as railway-bus stands, foot paths etc. Issues may originate from any course, for example, women strolling out and about after the work, going to store or numerous different purposes behind which they go alone. Individuals at home don't know of their arrival securely. Another factor is lady bite the dust without knowing the reason as they go to journeys and mechanical excursions directed by the organizations. It occurs because of assaults on lady yet not suicides. In 2013 there happened an unfortunate and tragic episode which is a muffle assault in New Delhi. Another occurrence that has occurred at Mumbai on account of lady who is abandoning her local place after Christmas. These are a portion of the issues that have occurred in the everyday existence of women. Keeping in mind the end goal to beat such issues looked by women we Propose an android application for helping women in threat by sending risk notice to designated contacts. This application will address a portion of the worry of women the risk notice can be send just in the gatherings and not in the individual talks in order to keep up the protection of the user. This application isn't just important to utilize yet in addition assumes a vital part with Women Safety.

**Keywords :** Woman Safety, Android Application, Danger Notification

## I. INTRODUCTION

Women during the early Vedic Period enjoyed equal status with men in all aspects of life. The status of women in India has been subject to many great changes over the past few millennia.[13] With a decline in their status from the ancient to medieval times,[14][15] to the promotion of equal rights by many reformers, their history has been eventful. In modern India, women have held high offices including that of the President, Prime Minister, Speaker of the Lok Sabha, Leader of the Opposition, Union Ministers, Chief Ministers and Governors.

Women's rights under the Constitution of India — mainly includes equality, dignity, and freedom from discrimination; further, India has various statutes governing the rights of women [16][17]. But unfortunately there is one more scenario which represents the women's situation in Morden era.

India which considers itself to be a promising super power and a financial center can accomplish its objective if and just if an extensive quantities of women take an interest in the improvement process. The true representative of United Nation Ban Ki-Moon, expressed that "There is one well known fact

relevant to all nations, societies and groups: brutality against women is never worthy, never reasonable, and never middle of the road" [11]. The report of WHO expresses that. "A savagery demonstration against female sexual orientation irritated the general wellbeing life of society and furthermore it disregards the human privileges of women." [12].

Presently a security of women at the night and on occasion even in a day when voyaging alone anyplace is a worry. Different unpleasant violations have been happening in the diverse parts of the nation. New Delhi, the capital of India is a major observer of such a wrongdoing. Along that when any individual travel longer separation from the home in obscure territories, their security is an essential concern too. It has been watched that the case correspondence of message of one's areas unequivocally is an issue. Since the expectation of such episode isn't conceivable subsequently to limit the likelihood of physical viciousness (theft, rape and so forth.) by keeping all the assistance instruments prepared to securely escape from brutal circumstance. This lessens hazard and brings help when required.

The capital city New Delhi in 2012 captured the consideration of the general population of the country as well as the whole world.

There are numerous such applications accessible in the market which sends a custom message to the number enlisted however not the area of that individual additionally these applications are not ready to send message over and over after some interim of time. In any case, in this recently proposed and checked application the longitude and scope data which gives the general thought of the place of the present position of the versatile client is connected with the custom message that had been initially set in the application. And after that this data is passed on to the telephone numbers which is enrolled as of now. So therefore this recently included application backings to locate the correct area of the individual in require additionally it will

be so useful in following the area of event effectively at last time.

## II. LITERATURE SURVEY

Dongare Uma et.al [1] has proposed a voice catchphrase perceiving application to perceive the client and initiate the application usefulness notwithstanding when the portable keypad bolted. The GPS module tracks the longitude and scope to follow a correct area of a client and sends the pre-put away crisis message including area to the enrolled contact numbers. The Audio Recording module begins the chronicle of the discussion for five minutes and put away as confirmations. The message goes in line if arrange issue and send when organize gets accessible. A warning is created for fruitful convey message. Likewise client can choose contact through voice based contact rundown and make a call.

Magesh Kumar.S et.al [2] proposes a crisis reaction circumstance perceiving application called as IPROB to give women safety even in the circumstance like fear based oppressor assaults or catastrophic event, by simply shaking the versatile over the predefined limit esteem naturally actuate the framework.

Vaijayanti Pawar et.al [3] proposes a SCIWARS application (Spy Camera Identification and Women Attack Rescue System) which comprise of two modules. A first module go about as a shrewd cautions framework which recognizes the infrared beams originating from consistently vision concealed cameras put in evolving rooms-inns room and so on and furthermore educated the client about perilous place through message.

Bhaskar Kamal Baishya [4] proposes an android application to give security at two distinct circumstances as takes after. The First module give security to Women at Emergency Situations propose a Save Our Souls (SOS) application to gives the security on a solitary snap of SOS catch for the women going around evening time or alone. The

second module proposes an android based home security framework that gives security of house assets and Senior Citizen in the client nonappearance. Since the security of senior resident is dependably a worry with expanding number of theft episodes.

Dr. Sridhar Mandapati et.al [5] proposes an application, in which a solitary snap of SOS communicates something specific containing the area and additionally sound video call to the gatekeeper number. At collector touch the area URL in the message to see it in the Google Map. It likewise gives distinctive enable instruments to like First-Aid enable, Fake Call To help and video call.

The IEEE genuine undertaking [6] proposed by Thooyavan V has a mechanized profoundly solid women security gadget which comprise of the propelled sensors inserted in a wearable dresses. It comprise of cutting edge sensors, GSM and ATMEGA8 microcontroller with ARDUINO device which hold client under perception at constantly. It screens the heart beat-rate, temperature and vibration in body through sensors to check for uneasy circumstance. In such circumstance it will enact the GPS module to track the area and remote camera to catch the pictures that get send to the control room of the recipient through GSM modules to take vital activities. In the meantime processor initiate the mice unit with speaker which fortifies the voice of the women to shouts or yell over as far as possible.

Prof. Basavaraj Chougula et.al [7] proposed a convenient gadget as a belt which is naturally actuated base on the weight distinction traverses the limit in dangerous circumstance. A GPS module track the area and sends the crisis messages to three crisis contacts like clockwork with refreshed area through GSM. The framework additionally actuates the shouting alert that uses a siren, to get out for help and furthermore creates an electric stun to hurt the aggressor for self-protection which may help the casualty to get away. The gadget essentially

comprises of smaller scale controller on the ATmega328 board which customized utilizing the ARDUINO programming dialect.

Nishant Bhardwaj et.al [8] proposes the women security gadget called as "Suraksha" which is a simple to work gadget. This gadget can be initiated through-voice order, Press a switch key and stun (i.e. at the point when the gadget is tossed with constrain, a power sensor used to actuate the gadget). In crisis circumstance it will send the message including moment area to the police, through the transmitter module and enlisted numbers by means of a GSM module. As of now the work is under procedure to implant it in adornments, portable or other transporter like belt and so on. It can assume a noteworthy part in the propose ventures where all the police headquarters are associated and share the criminal records, wrongdoing examining cases and so on.

Poonam Bhilare et.al [9] proposes a stretched out vehicle following framework to track the vehicle in light of GPS with that it likewise gives the safety through a crisis catch kept under the vehicle situate utilizing GSM. As the expanding financial development rate of a nation, numerous organizations are setting up their setup in the adjacent district of the urban areas. Since, the security of women representatives' inside the private transportation is the organizations' duty.

Remya George et.al [10] proposes the propelled programmed method to foresee the risky circumstance in view of the female feeling as dread, outrage and so on. The framework takes after the means offered beneath to decide the disordered circumstance under the reconnaissance locale to recognize the brutality circumstance.

### III. IMPLEMENTATION

There may be a circumstance in which the individual needs to movement alone a long separation at an odd

hour and maybe even by open transport and may confront some threat. At such a period, an individual safety application may not exclusively be astute to have simple access to, it may likewise give you a ton of certainty required. There may be a circumstance that when women had a mishap in the late night and there are nobody to cause and to deal with them. In such circumstances the individual won't have the capacity to tell the circumstance that he/she confronting. What's more, they don't have the foggiest idea about the essential medical aid points of interest and to know the individual where the occurrence has happened. To escape from the un-needed gatherings we don't have the foggiest idea about the best approach to escape from that gathering since we don't have a clue about the phony calls working. There are no versatile applications for the person's safety, if the individual is in threat the general population need to make a call to his companions or relatives and must clarify the position and issue and by and large we don't have a clue about the emergency treatment subtle elements. A few disadvantages in the current framework are talked about beneath:

- The individual who is in peril (he/she) can't clarify and demonstrate his/her position and circumstance.
- The individual doesn't know the medical aid points of interest.

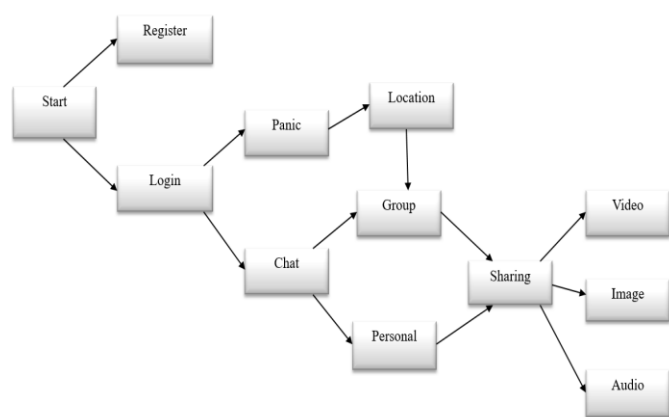


Figure 1: Flowchart for Working Model

The paper speaks to a model to plan the android application which helps the client/casualty in risk. This application will enable client to make bunches

where he/she can share photographs, recordings or different documents and even can talk with the gathering individuals or people. Another element about the application is it enables the casualty to send the warning to the gathering so other gathering individuals will help him/her when he/she is in peril. The principle preferred standpoint of this application is risk notice can be send just in the gatherings and not in the individual visits to keep up the security of the client. At the point when in threat the client can send a peril warning to particular gatherings in order to illuminate its companions or family to seek help. The warning will contain the area of casualty which will help its family or companions to track her.

Any one action can be activates the system, which sends the message including the user location to the registered contacts. At the receiver, just by clicking on the location ink provided in the message it can show the location on the Google map. Global Positioning System (GPS) module: - It is a navigation and precise positioning tool, tracks the location in the form of longitude and latitude based. The GPS Coder Module used this information to search an exact address of that location as the street name, nearby junction etc. In case where GPS is disabled then the system will only send the longitude and latitude. Internet is mandatory.

Step 1- First the user has to install the application. After installation user has to register if it is using for the first time.

Step 2- Once done with the registration user can login using their user id and password.

Step 3- The user will have various options like

- Chatting
- The user would be able to chat with his friends, family members. Also user would be able to create groups for group chatting. The notification will be sent only to the group and not in the individual chats so as to maintain the privacy.
- Sharing of audio video and files.

The user can share different types of media such as audio and video. Sharing of media as well as chatting can be done under one roof.

- Panic Button

By pressing the panic button danger notification will be sent immediately to the pre-nominated contacts. This message will be a text message which will contain the longitudinal and latitudinal value of the user. Using that location the contacts can search for the user and help her.

- Manage account.

Manage account will contain the overall information of user. Here the user can edit, update its personal information.

Step 4- On choosing chat user can create group of particular number of contacts of it can have personal chats.

Step 5- There is an option of sharing in groups as well as personal chats which includes audio sharing, video sharing, and image sharing. There will be a danger shortcut on the main screen.

#### IV. CONCLUSIONS

The system is a Women Safety application with dynamic highlights utilizing GPS. This portable application is especially useful for any lady. Since when a lady is in risk position then she essentially touch this I Safety portable application and alarm their watchmen that the lady is in peril. The casualty can make bunches by choosing some number of contacts and even the casualty can talk in that gathering. Sharing of media, for example, video sharing, record sharing, picture sharing can be effortlessly done utilizing this application. The fundamental element of this application is threat warning can be send just in the gatherings and not in the individual talks in order to keep up the security of the client. At the point when in peril the client can send a threat warning to particular gatherings in order to educate its companions or family to seek help. The notice will contain the area of casualty which will help its family or companions to track her. This portable application is useful in future when any

issue emerges in voyaging or any sort of circumstances. As the innovation rises, it is conceivable to redesign the framework and can be versatile to wanted condition. Since it depends on protest situated outline, any further changes can be effortlessly versatile. In light without bounds security issues, security can be enhanced utilizing rising advances.

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