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Women Security App

Pranav Rana¹, Kartikey Shukla², Abhishek Mishra³, Sharique Ahmad⁴

UG Students, Dept. of Information Technology, TCOE, Mumbai University, Maharashtra, India^{1,2,3}

Professor, Dept. of Information Technology, TCOE, Mumbai University, Maharashtra, India⁴

ABSTRACT: In today's world, people using smart phones have increased rapidly and hence, a sensible phone are often used efficiently for private security or various other protection purposes. The heinous incident that outraged the whole nation have waken us to travel for the security issues then a number of latest apps are developed to supply security systems to women via their phones. Nowadays women face many security problems within the society. In such cases, they feel handicap and wish help to guard them. albeit many technologies are introduced for ladies still kidnapping, eve teasing and harassment are happening in our country. When the ladies face into unsecured situations, to make sure the security, automatic detection system must establish which send an alert message which incorporates the situation of the local department. during this paper, we surveyed the prevailing mechanism for detecting locations, tracking information via SMS help to seek out the situation victim quickly and may be rescued safely.

KEYWORDS: Android; GPS; URL; Registered Contacts

I. INTRODUCTION

Women safety is one of the most issues in today's world. the planet is becoming such a lot unsafe for ladies. In today's world, most of the ladies are stepping out at any time from their house for working. albeit many technologies are introduced for girls still kidnapping, eve teasing and harassment are happening in our country. In previous few years crime against women has increased to a greater extent. Women are harassed not only within the evening or night but also during day hours reception, working place, shopping etc. there's number of women's who are frightened of strangers for his or her safety. Around 80% of the ladies in our country have fear regarding their safety. In past decades women usually won't exit from their house for work, so there was more safety. But within the recent situation, women's want to be used and need to figure outside, but there's the shortage of safety; various systems are built to supply safety for ladies. Each system uses a special quite techniques to detect the unsafe situation of girls. a number of them used panic sensors to detect the condition of the ladies by heartbeat and natural process in women's body, Sound detectors also are wont to detect the variations in women voice while they're in peril situation. Most systems use mobile devices for detecting women's unsafe situations, like phone mike to detect women scream, camera to need pictures and to record video. during this paper, we surveyed the varied existing mechanism used for ensuring the safety of women once they're away from home. When the women face into unsecured situations, to form sure the safety, automatic detection system must develop which send an alert message to the police department and people. This can be done by sensing various factors such as abnormal sounds, body reaction like shivering, sweating and heartbeat which can be detected using sensor and to provide alert message with the various factors to identify the safety of women are

- Mechanism for detecting Location (GPS)
- Schemes for Communication (GSM)
- Existing System

In this paper, we surveyed the existing mechanism for detecting locations, for sending communication.

Mechanisms for detecting location

a) GPS

GPS is a Global Position System is a radio navigation system used to provide geolocation; this is mainly used in military forces; this technology can be used to track the location of a person and to determine the position of an object. GPS will broadcast a message which contains current position, time, latitude and longitude of the place where it's situated. It establishes a connection to the specified number of satellites, and at minimum a minimum of four satellites



should be used for calculating current location of the system, then GPS initiate a process that solves a set of equations to find precise current location, this can take place within few minutes or seconds depending on the strength of the receiver. The GPS doesn't require the user to transmit the data; it operates independently through internet reception to reinforce GPS positioning information. This GPS system is available as a module that can be embedded in any mobility devices, so this system can be helpful for women to track the location information when they feel unsafe or in danger situations.

Schemes of Communication

b) GSM

GSM is a Global system for mobile communication, it is the most successful digital mobile telecommunication system, and it also termed as second-generation system. GSM provide various services based on voices and data delivery, some of the GSM services are Tele-services, bearer services and supplementary services. GSM mainly used for its tele-services for voice transmission and messaging services, when two users need to communicate via GSM system, a connection between the mobile node and nearby base station is established, the base station reaches the nearby base station of other user using BSC(base switching center), thus a connection is established between the two users within few seconds, GSM also provides emergency communication which has higher priority that preempts other connections, the advantage of GSM communications are wireless communication and worldwide connectivity, better frequency efficiency and many users can access at a time, hence this system can be used for emergency communication when a woman faces a difficult, unsafe situations.

II. LITERATURE AND SURVEY

In today's world, women safety has become a major issue as they can't step out of their house at any given time due to physical/sexual abuse and a fear of violence. Even in the 21st century where the technology is rapidly growing and new gadgets were developed but still women and girls are facing problems. Even today in India, women cannot move at night in many places and even at day time crowded places hundreds and thousands of incidents of physical/sexual abuse happens to women every day. Among other crimes, rape is the fastest growing crime in the country today. The device described here is a self-defense system specially designed for women in distress to help them to protect themselves. This device can be fitted in a purse, belt or fitted to the girl's sandals and the panic button attached to the belt. The lady in danger can activate the system by pressing emergency button on belt or tilting her sandal. It is a simple and easy to carry device with wide range of features and functionality. The basic approach is to intimate instant location and a distress message to the cops and registered number like parents, friends, media, and women cell etc. so that unfortunate incidents would be averted and to provide real time evidence for swift action against the perpetrators of crime against women. The block diagram of the conceptual system is shown in below figure. The microcontroller acts as an embedded computing system and controls the activities of all the sub-systems.

for any abnormal values of body tilt, body temperature and pressure from the MEMS Accelerometer, Temperature Sensor and Pressure sensors respectively, through the ADC. If all parameters are normal and if the Emergency Switch is not pressed, it goes back in the loop and continues regular monitoring process. But, if any of these parameter values are abnormal or if the Emergency Switch is found to be pressed, it activates the speech circuit to make loud shouting sound to catch the attention of the nearby people for help. It also prepares the High Voltage Electric Shock Circuit to be ready to give a non-lethal shock to the attacker. If the help is not available and if the system is not reset within the stipulated time, obtain location information from the GPS and prepare a text SMS containing the present location information and send SMS through GSM modem to the

police control room and distress message to the preprogrammed mobile number. The design is implemented using an embedded microcontroller, in a modular form to be adaptable to different types of location tracking. Based on the total design of the system, the hardware and software of the system is designed to be near real-time monitoring of the women and immediate help. The lady can protect herself by the electric shock to the person harassing her. The software is developed in assembly language to demonstrate the system capability in providing real-time response. Using the location information supplied by this system the location using GPS and traceable through Google Maps. Thus, the girl will be safe and she feels protected. At the product level it can be as compact as a mobile phone.

In this paper we report our experiences gained in the student project developing an Android mobile phone application. Our application has been developed using the Eclipse Integrated Development Environment (IDE) with Android Development Tools (ADT) plugin and Android Software Development Kit (SDK). Some useful additional plugins like Check Style, Find Bug State Analyzer with Aware and Eclipse Metrics plugin have been integrated into Eclipse IDE as additional support to reduce the number of coding errors during the development. "The



Perfecto Mobile Handset Cloud" service. The rest of the paper is organized as follows. The Android operating system is explained in Section Our project, along with the development and testing strategy, is described in Section The development environment that was used for the Android application development is described in Section Experiences gained applying the proposed development and testing strategy is presented in as the conclusion of this paper.

ANALYSIS TABLE

Name of paper Reviewed	Author	Drawback	Advantage
Selfdefence system	B.Vijaylashmi1, Renuka.S2	Learner about self defence using mobile device to reduce crime against women	Microcontroller periodically have to check for any incoming status
Development Environment for Android Application Development: An Experience Report	Robi Grgurina, Brestovac and Tihana Galinac Grbac,	Testing done using Android emulator and development done through real device	IDE has to be present for this project to work
Implementation of children tracking system on Android mobile terminals	Saranya,j Selva Kumar,J.	This paper did not explain in detailed about implementation.	Implementation of tracking system

III. PROPOSED SYSTEM

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

1. First module are often the victim's phone i.e., the basis device which uses 4G/3G/2G data connection for tracking the situation of the victim through GPS.
2. Second module are often the mobile of registered contacts either police or friends or relations which receives the message containing URL of location of victim that is sent from the idea device.

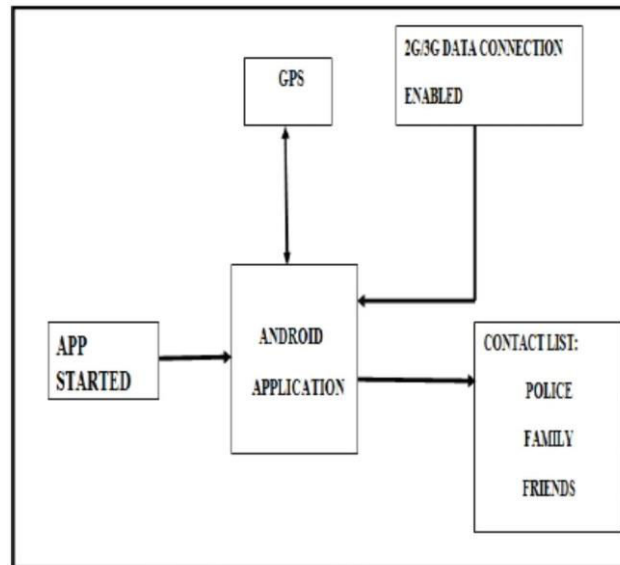
BLOCK DIAGRAM:

Fig. 1. Block Diagram for the Proposed System

“Fig 1” shows the diagram of the system. Initially, once we click on the app, it first checks whether things settings, data connection settings within the appliance are on or not. Then, it tracks things of the victim via GPS and sends these location co-ordinates within the type of URL through message to the registered contacts. Here, registered contacts mean the contact details that are saved within the Naari application during its initialization. Now, at the received device, by clicking on the URL within the message, it spots the precise location of the victim. Also, because the message containing victim's location is shipped for every five minutes from the idea device, the victim are often tracked wherever she goes and should be rescued safely and quickly.

IV. EVALUATION & RESULTS

The total evaluation are often wiped out three major steps which are described individually. Evaluation describes the whole working of the application in three major steps. The first major step is to enter the contact details in the application created. Those contacts are often our relatives, friends and chief cop of the actual city the person we sleep in . When the appliance is installed within the smart phone for the primary time the above contact details should be provided. The application will save the given information. The second major step is to send the GPS information (GPS information are often within the sort of the Co-ordinates or the URL which results in the situation of the person any stock map application within the likes of third-party application like Google, Nokia etc.) to the registered contacts at danger times or when the person is required to be rescued. This step is followed only the rescue button is pressed in application. The whole process of this step is completed only the device is connected to the right mobile network and site service within the device is switched on (GPS)The third major step comprises of labor wiped out sending the message containing location URL continuously to the registered contacts. Here, we've set the interval as 5 minutes, so for every five minutes of time-lapse, SMS is sent to the registered contacts. Therefore, the exact location of the person is often tracked by the appliance continuously which is the primary aim of the proposed system and the person can be rescue. The third major step comprises of labor wiped out sending the message containing location of the proposed system and the person can be rescued.

Results:

The following figures are the screen shots of Naari application initially from the starting of it.

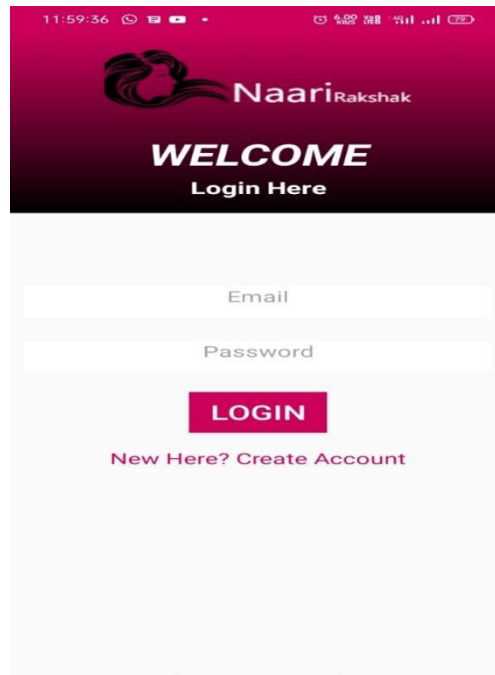


Fig. 2. Screen Shot of Naari App just after opening the application

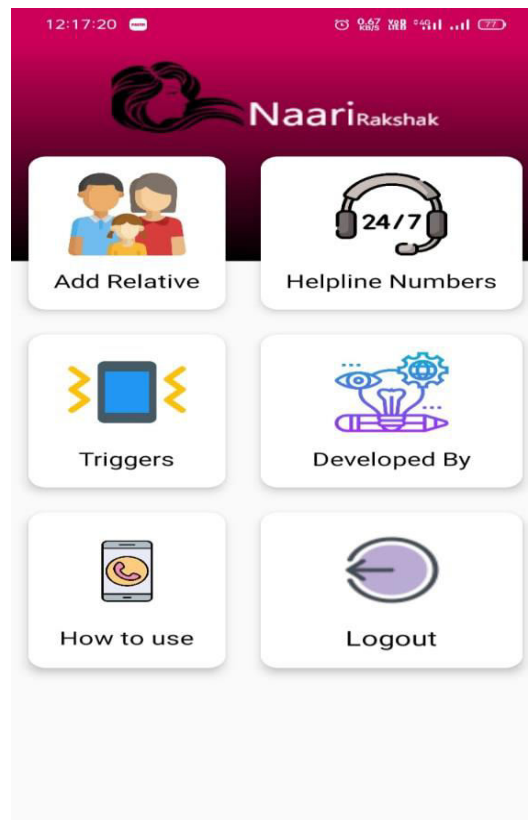


Fig. 3” depicts the screen shot after Login page in Naari Application.

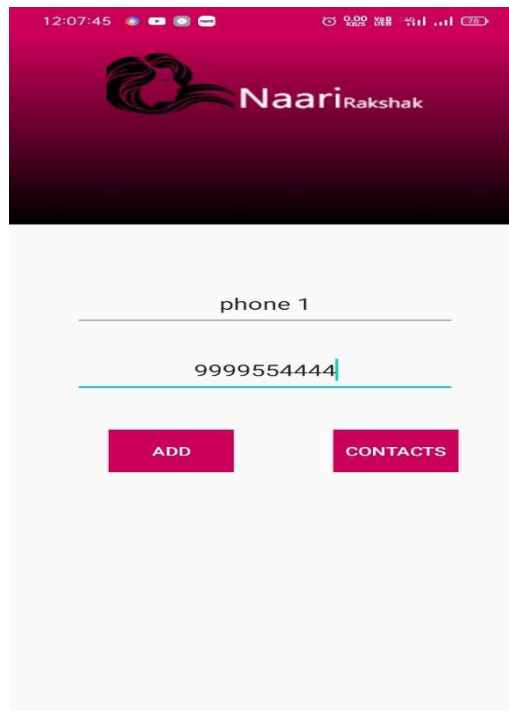


Fig. 4. Screenshot after entering the Relative details in Naari Application

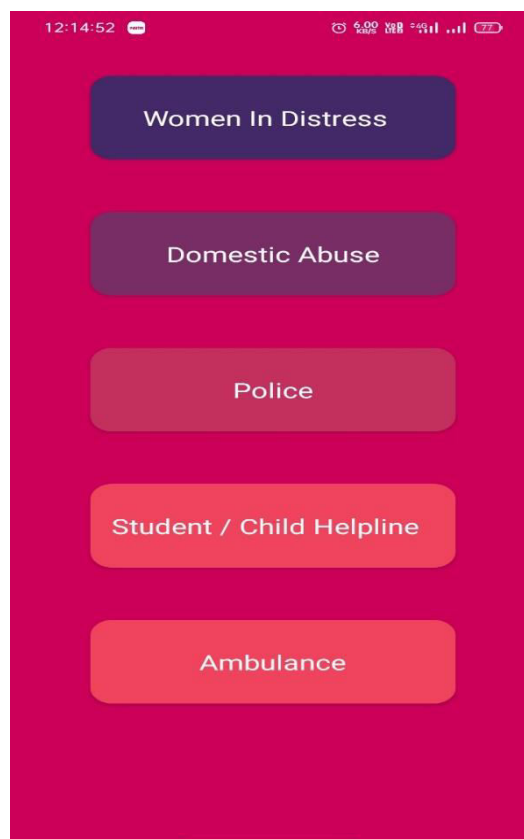


Fig. 5. Screen shot of Naari App after clicking Helpline Numbers button in the application.



V. CONCLUSION

In this paper, we have described Naari, an Android Application for the security of women. This application helps in live tracking of the situation of the victim through GPS. Not only in harassing related problem, it can be used when someone faces accident or hijacking or public problems any kind of danger, this system will help to decrease the risk and make the world a better and safer place to live.

In future will work on designing it safer for decreasing the crimes at rock bottom level. Additionally, planning to introduce two unique features in this application. That is hidden camera. As this is often also a security issue for ladies. Also identifying Microphones.

As a future scope, this application are often integrated with the enforcement database, which incorporates all the phone numbers of regional cops. Some use cases such as rescuing victim, when the mobile network is not available, after initial alert or switch off condition. Further, it are often developed for IOS and Windows mobile platforms. Thus, this application can help the women in a big way from unsafe conditions.

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