



WOMEN SAFETY APP

Hasan Patel^{*1}, Karishma Rathod^{*2}, Yash Tare^{*3}, Sahil Sapate^{*4}, Dashrath Kale^{*5}

^{*1,2,3,4}Final Year Student, Department Of Computer Engineering, Vivekanand Education Society Polytechnic, Chembur, Maharashtra, India

^{*5}Senior Project Mentor, Department Of Computer Engineering, Vivekanand Education Society Polytechnic, Chembur, Maharashtra, India.

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 women security an Android Application for the Safety of Women and this app can be activated this app by a shaking the mobile, whenever need arises. This app identifies the location of place through GPS and sends a message comprising this location URL to the registered contacts and also send messages to near by mobile which are having this app.

Keywords: Android Studio, Android OS, Women Safety, SOS, GPS location.

1. INTRODUCTION

In today's fast moving world, Women Security is an issue of growing concern. We have read about many unfortunate incidents happening with women and the rate is increasing. Women these days are working women and the globalization has made us aware of gender equality. Earlier the women were restricted only to the household chores. With the changing scenario, women are competing with men in all fields. We can see women going to great success levels in all fields, may it be corporate, scientific, education, business or any other field. Safety of women matters a lot whether at home, outside the home or working place. Last few crimes against women especially the case in Delhi was very dread and fearful. Because of such crimes, women safety has become a major topic. A huge percentage of women have no faith that police can curb such harassment cases. There is an urgent need to understand and solve this problem of women safety so that they can also grow equally like men in their own country.

2. LITERATURE REVIEW

First user had to enter his/her mobile number in the given text-field. This number will be the one where the text message will be sent. After that click on 'Finish' button to save your number. After that a new interface will be open where you will be provided with two buttons 'Start' and 'Stop'. To start the service click on the 'Start' button along with it a popup message will be displayed as 'Service started'. A notification will be displayed on the notification bar with message 'Shake Device to Send SOS'. And to stop service click on 'Stop' button. Message received by the contact device immediately after starting the application. It starts and the GPS starts running over the device and immediately the user's location will be sent.

3. MODELING AND ANALYSIS

ARCHITECTURE

a. Proposed system:

The proposed system will be implemented with the help of android application. Which will alert the nearby people who having this application by sending alert messages to them and alert sound in the guardian mobile on shaking of victim mobile. Also sends messages and alert sound to the saved contacts in the application and police station. Which also show the location of the victim with the help of GPS tracker system.

b. Proposed Architecture:

First, the assigned mentor chose one of projects mentioned: Women Safety App. Our group discussed about what software to use, design, features and many more aspects for our project. We started to:

- Collect and analyze data on the topic

- Prepared the flowchart
- Started on the code according to the algorithm and flowchart
- Compiled the code and eliminated any errors
- Compiled the code again and checked the output
- Presenting the project to the guide/mentor for confirmation
- Edited and revised the project
- Presented the report

4. EXPERIMENTAL SETUP

- **Android Studio:**

Android Studio provides a unified environment where you can build apps for Android phones, tablets, Android Wear, Android TV, and Android Auto. Structured code modules allow you to divide your project into units of functionality that you can independently build, test, and debug.

- **Java:**

Java is used as the server-side language for most back-end development projects, including those involving big data and Android development.

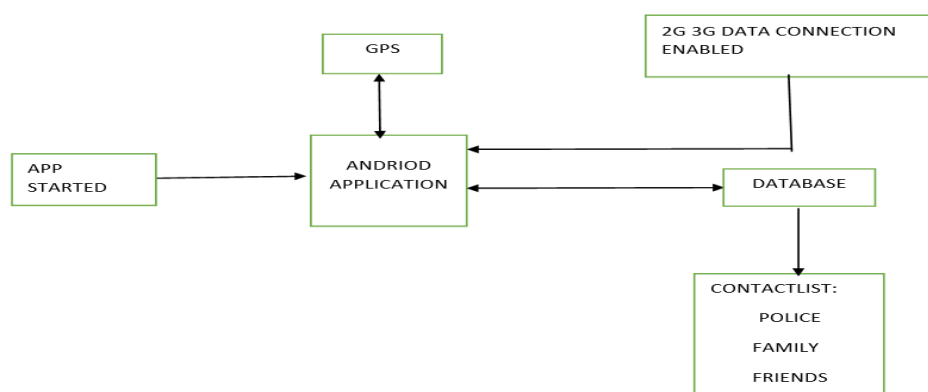
- **XML :**

Extensible Markup Language (XML) is a [markup language](#) and [file format](#) for storing, transmitting, and reconstructing arbitrary data. It defines a set of rules for encoding [documents](#) in a format that is both [human-readable](#) and [machine-readable](#).

- **GitHub:**

Git and GitHub: Git is a version control system that lets you manage and keep track of your source code history. GitHub is a cloud-based hosting service that lets you manage Git repositories. It is basically meant for a team of developers to work collaboratively and together for faster development of the product.

5. BASIC FLOW OF APPLICATION



Algorithm of the application

- Click on the app
- Its checks first whether the location setting, data connection setting in the application are on or not.
- The root device which uses 2G/3G data connection for tracking the location of the victim through GPS.

- And sends these location co-ordinates in the form of URL through message to the registered contacts.
- The comprises of work done in sending the message containing location URL continuously to the registered contacts.

6. SCOPE OF THE APPLICATION

As an independent nation, we must ensure respect and security of women and we cannot deny them this basic right. It is now time to initiate action to eradicate the menace of security issues with women. Violence against women remains embedded in our societies, both as a daily reality and a difficult situations .Gender justice is impossible in a world where at least one in three women faces violence in her lifetime, regardless of her culture, religion, socioeconomic class, or education level Our country can be a true democracy only when all women have the security and freedom from violence.

7. CONCLUSION

The main aim of this proposed system is to enable one to protect themselves from physical harm, molestation, abuse, sexual violation. The working kit in real time can be made as a wireless device, with further research and addition of video capture for identify the accuse easily. This device can be of help for a certain extent and is more efficient in its own way. But the complete safety can be obtained when there is a change in the mindsets of the person using this instrument. When we start to value the humans, human values and morals over the materialistic things then this world becomes a safe place to live in, with peace, and humanity and can achieve greater heights.

REFERENCE

- [1] https://github.com/ShakilAhmedShaj/Women_Safety_Box
- [2] <https://github.com/Moheeeetgupta/LadyBuddy-A-woman-safety-app>
- [3] Android Developers, Location APIs. URL: <http://developer.android.com/google/playservices/location.html>
- [4] An Introduction to Database Systems Book by Christopher J.Datefirebase.google.com developer.android.com for SDK
- [5] <https://github.com/PrabhuVinod/Women-Safety-App>
- [6] <https://github.com/danishshaikh/Naari>
- [7] "WOMEN'S SECURITY", Android App developed by App Soft India, December 17, 2013.<https://play.google.com/store/apps/details?id=com.Zayaninfotech.security&hl=en>