

INTELLIGENT WOMEN SAFETY APP

RanjanaGupta¹ ,YashpreetGaur² ,SakshiKumari³ ,NishaGupt⁴ ,Sunil Kumar Yadav⁵

¹B. Tech 4th Year, Dept. of Information Technology, ITM Gorakhpur, U.P, India

²B. Tech 4th Year, Dept. of Information Technology, ITM Gorakhpur, U.P, India

³B. Tech 4th Year, Dept. of Information Technology, ITM Gorakhpur, U.P, India

⁴B. Tech 4th Year, Dept. of Information Technology, ITM Gorakhpur, U.P, India

⁵Assistant Professor, Dept. of Computer Science and Engineering, ITM Gorakhpur, U.P, India

ABSTRACT

Women safety has been a big concern and it has been the most important obligation of every person. There is no possibility of the welfare of the world unless the condition of the women is improved. Since the ancient time, women are given most respected place in the society but every day and every minute some women of all walks of life (women, girls and babies) are getting harassed, molested, assaulted and violated at different places all over the world. It is estimated that 35% of the women have experienced physical and/or sexual violence at some point in their lives. This paper includes various ideologies and methodologies of numerous authors who have reviewed multiple applications and devices using present technologies and processors and they have also upgraded these with firm requirements in order to decrease violence against women. Also a petite measure of improvement proposed in this paper, adds to the better performance of these devices and lead to better women safety..

Keyword- Application, Emergency, GPS Tracker, Bluetooth access, Security, Android studio.

1. INTRODUCTION

In modern years, the number of occurrences of events related to women harassment has grown-up with ever-increasing rate, it is beyond doubt that women are not safe outside particularly Maharashtra and in other State according to the national crime record bureau {NCRB} pestering at the workplace at public transport and other places among other states. Maharashtra is in third position with 2910 cases. There occur many such monstrous events against women's development in a different area. In most cases, rape cases do not justice due to the lack of well-timed identification of guilty persons thus it accelerates the rate of rape incidents in the social order. To overcome the drawbacks of women's safety applications, an algorithm is to developed that works similarly like a security application. The world of intelligence always deals with the updating concepts day-by-day. The intellectual knack of human beings is increasing vigorously, whereas safety concerning ever-increasing updating technology (IoT). In recent various Mechanism viz. Network mechanisms, Mobile mechanisms, Helpline numbers, and various systems were designed, to overcome the women in a critical situation, but the accurateness with those mechanisms is less which results in many crime situations. Every system has different techniques to measure the security of the situation. The best way to curtail due to your probability of becoming a dupe of violent crime (robbery, sexual assault, rape, domestic violence) is to be recognized, justification, and lookup resource to help you out at perilous situations.

2. TECHNOLOGICAL REVIEW

JAVA- JAVA was developed by James Gosling at Sun Microsystems Inc in the year 1995, later acquired by Oracle Corporation. It is a simple programming language. Java makes writing, compiling, and debugging programming easy. It helps to create reusable code and modular programs. Java is a class-based, object-oriented programming language and is designed to have as few implementation dependencies as possible. A general-purpose programming language made for developers to *write once run anywhere* that is compiled Java code can

run on all platforms that support Java. Java applications are compiled to byte code that can run on any Java Virtual Machine. The syntax of Java is similar to c/c++.

ANDROID STUDIO- In recent times, Android has become the world's most popular operating system for a variety of reasons. As an Android editor, I want to share what Android Studio is? Android Studio The Google Android IDE IDE launched on May 16, 2013, during the Google I/O 2013 event. Android Studio contains all the Android tools for designing, testing, debugging, and and profile your app. Android Studio uses Gradle to manage your project, Automatic Build Tool. Android Studio provides an integrated environment where you can build apps for Android phones, tablets, Android Wear, Android TV, and Android Auto. Organized code modules allow you to separate your project into functional units that you can independently create, test, and customize.

SDK- Android SDK (Software Development Kit) is a set of development tools used to develop Android platform applications. This SDK provides a selection of tools needed to build Android apps and ensures the process is as smooth as possible.

GPS- GPS monitoring devices are connected to a satellite navigation device that detects records from satellites in the area. GPS tracking systems may be used for vehicle tracking, vehicle control, asset safety, personal protection, and more. The simple use of GPS tracking facilities is for the client to set and capture real-time step-by-step instructions.

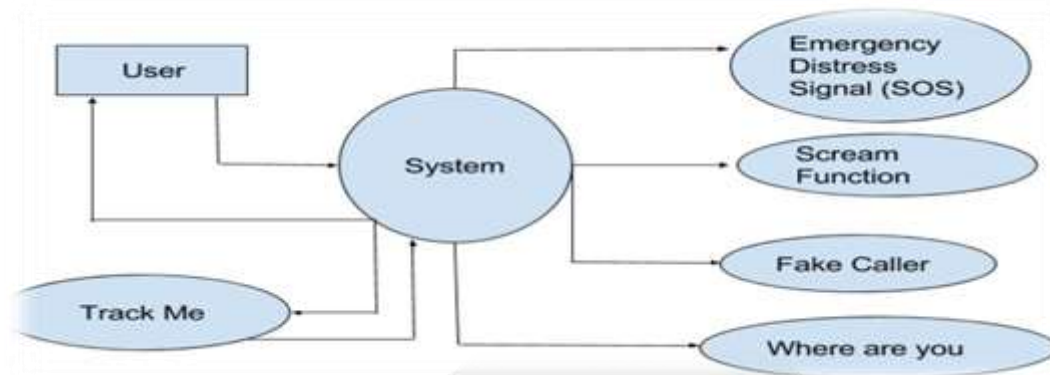
XML- Extended Language Language (XML) is a simple text-based format for representing structured information: documents, data, configurations, letters, transactions, invoices, and much more. Taken from a standard format called SGML (ISO 8879), to best suit the use of the Web.

Firebase- Google Firebase is an app development software supported by Google that enables developers to improve apps for iOS, Android and the web. Firebase provides tools for tracking statistics, reporting and fixing app crashes, creating marketing and product testing.



2.1 METHODOLOGY

The application which we are making will run on android application. As we all know that in present scenario women safety plays a vital role. This app which we are making is activated in a single click when a victim feels that she is in danger she simply press her SOS button and from the help of SOS button important information like location of the victim area ranges and all will be directly sent to the registered contact numbers. It can also happen like if a victim have no time for pressing SOS or her mobile phone will snatched by the kidnapper in that condition if victim will scream all the functions also in working mode at that time, which means message will also sent to the registered contact members through GPS. As in future our application will really very effect full for all the women who does not feel secure in any condition. They have their mobile phones and through this application they can easily save themselves from attackers.



3. IMPLEMENTATION

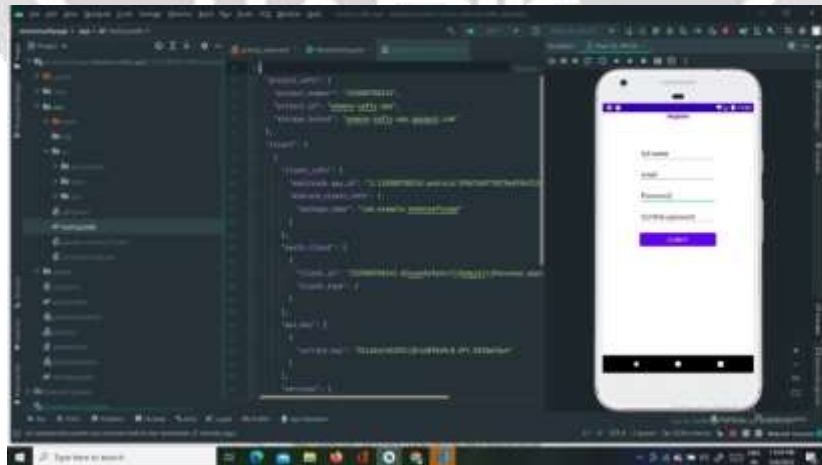
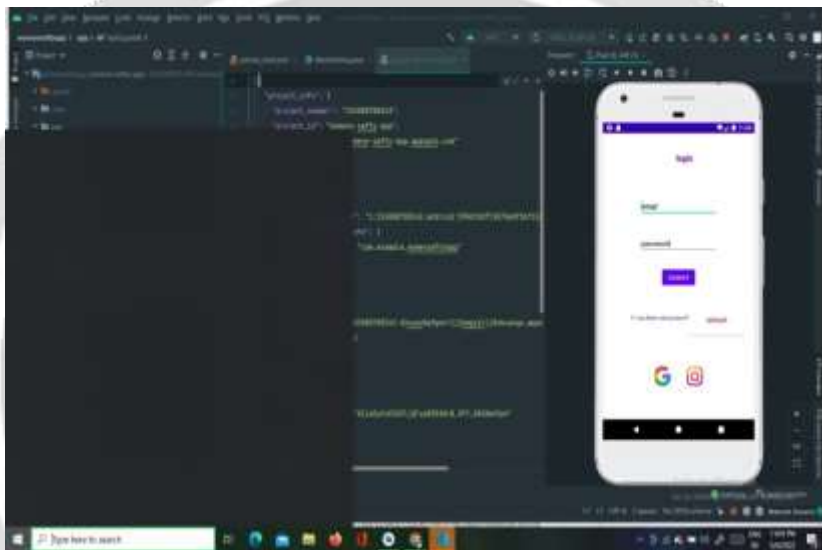
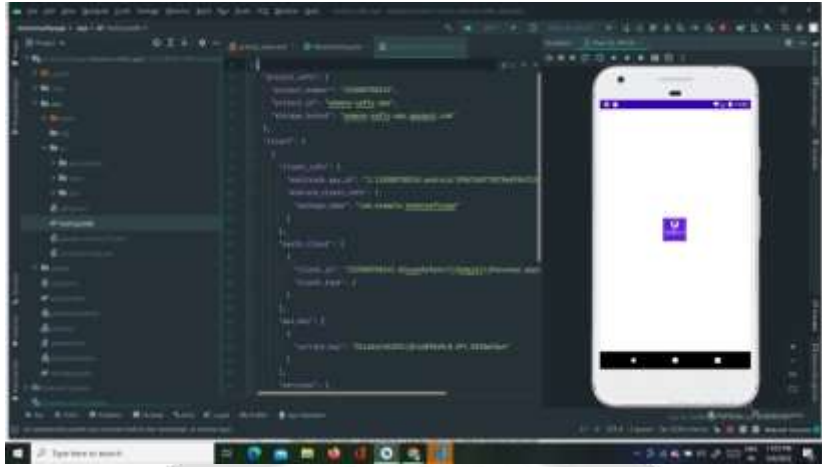
This android application will be helpful for the user who is in danger and want anyone for help. Firstly when a user will open this app for the first. They have to firstly register themselves on the particular application by adding name and email id. After that one new page will open which is to register some contact members and to add their phone numbers on that application. After that the application will all set for continue. Now suppose anyone who feels in danger and they already registered herself on the particular application at that time the application will start working like a victim feel unsafe at any place the application will help them to send messages for help to the registered contact members as well as through GPS location of that victim will be sent easily.

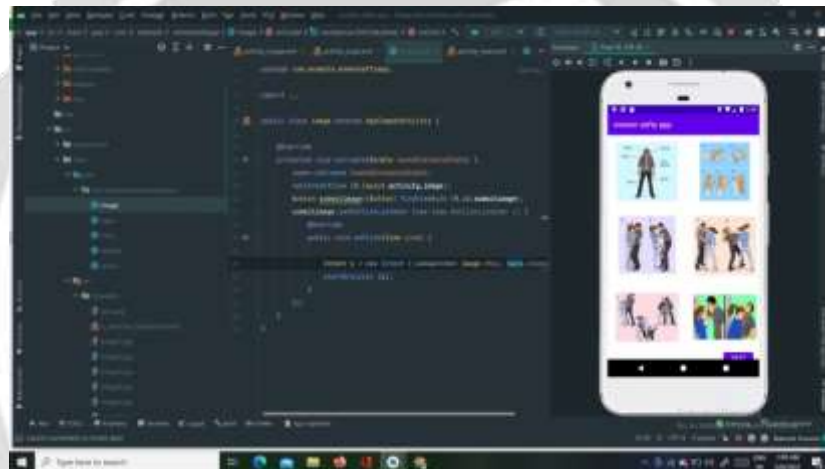
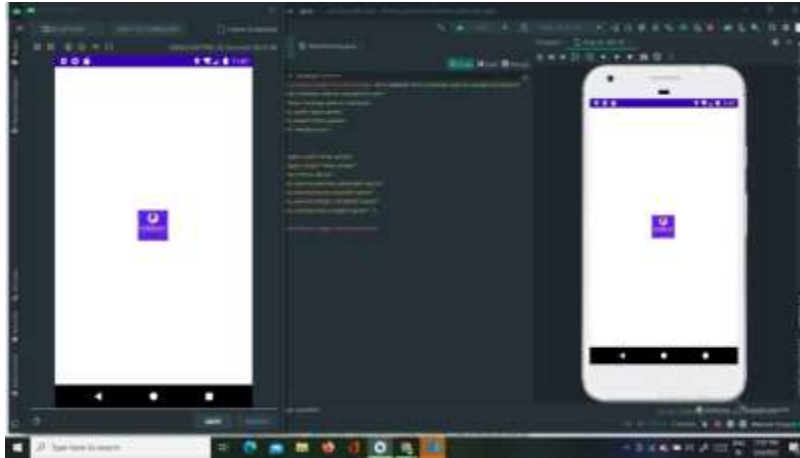
This application have its three phases of working which is described below-

The first step will be register herself and then register important contact numbers in the application. Once you register yourself on the application also add important contact members in the application when someone is in danger it will take the data from the database and do all the important operations.

The second phase of this application is sending information through GPS and Bluetooth. Like through GPS victim's location will sent to the registered contact members. And using Bluetooth it will send the important information also via Bluetooth in the range of Bluetooth.

The third phase of this application is to sending messages to the registered contact members. As we are using time-intervals like 5 minutes or 10 minutes after every interval of 5-10 minutes again message will be sent to the registered contact numbers so that if in time receiver not able to receive the message or see the message they have time-interval's notifications so that they can see the message and try to save the victim.





4. CONCLUSION

All the applications and devices are built by using new technologies. This application is very helpful for all the women who are suffering from any of these problems. Women's security or safety is very important in today's scenario. Through this paper, we are just proposing a very useful application for the safety purpose of women. From this application, we are trying to protect women from attackers. By using this app just with one click a victim is able to protect from attackers. The app is based on android so it is very easy to use and anyone can use it in time of trouble. While it is sometimes difficult to use when the phone is not charged or it is not updated, we will also provide a demo video and images of self defense in starting of the app by which victim can safe herself and make it useful in those situations also. So, for future purposes, this app plays a very vital role in women's life.

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