

# Prathiraksha: An Android Application For Women Safety And Security

P. Maruthi, Mtech<sup>1</sup>, R. Aiesha<sup>2</sup>, N.Sai Sravani<sup>3</sup>, K. Sravani<sup>4</sup>, J. Suredra Reddy<sup>5</sup>

<sup>1</sup>Asst prof, Dept of CSE

<sup>2,3,4,5</sup>Dept of CSE

<sup>1,2,3,4,5</sup> Sanskrithi School of Engineering, Puttaparthi.

Affiliated to Jawaharlal Nehru Technological University, Anantapur.

**Abstract-** We are probably living in the worst time our modern society has ever seen in terms of women and children security. We aim to make women feel as strong as ever and strong enough to fight the parasites of our society, strong enough to fight the odds, strong enough to protect themselves against any sexual assaults. We aim at giving power to those without whom we cease to exist. Our idea is to design an application which shall make every place and every hour safer for women and children again. So, for their security and safety purpose government has provided security through rules and regulation to the society. Although there are many existing systems for security purpose need of advanced smart security system is increased. In order to overcome such problems smart security system for women is implemented. By observing such bad conditions of woman in the world we are designing and developing this project. This project has the potential to help the woman by the technologies used in it. In this project we are designing an mobile application that can be used by woman for help in emergency situations as it contains a SOS-alert button when it is pressed then it will send SOS-alert message to nearby police station and her parent and brothers it also send the live location of the user continuously to some particular persons in contacts and to police. when the SOS-alert is pressed then it will automatically open user mobile rear camera and take captured images and sends to near particular police and her parent. The captured evidences can also be used to make a complaint and registered FIR. Near police station sent to SOS-alert notification to her parents mobile (Police take severe action immediately). This application has a additional features like an interactive map application for real time crime reporting using the integrated Google map in which we can mark the location of the crime scene and send an alert to the near police station and who registered in this application can only able to viewing the user Information and another important feature used in this application is a chat application which is used to improve the relationship between the police and public using technology.

**Keywords-** Mobile application, Women Safety, , Android Studio.

## I. INTRODUCTION

Safety of Women in India has become a major issue in India now. The crime rates against women in the country have only risen to a great extent. Women think twice before

stepping out of their homes, especially at the night. This is, unfortunately, the sad reality of our country that lives in constant fear. Women in India have been given equal rights as men; however, people do not follow this rule. They contribute to the growth and development of our country; still, they are living in fear. Women are now on respected positions in the country, but if we take a look behind the curtains, we see even then they are being exploited. Each day we read about horrific crimes being committed against women in our country like it's a norm. Although the list of crimes is very long, we can take measures to ensure women's safety in our country. Firstly, the government must make stringent laws that ensure the punishment of criminals immediately. Fast track courts must be set so the victim gets justice instantly. This will serve as a great example for other men to not commit crimes against women. In short, crimes against women are stopping the growth of our country. We must not put the blame on women and ask them to be extra careful. Instead, we must ask the men to change their thinking and work to make the world a safer place for women. Developed application will help to take quick action against the culprit hence reduce the crime against women.

## II. OBJECTIVES

We are focusing on building an effective, fast and reliant system to make the women of India feel safe and empowered. Our platform will act as a 24/7 active help and companion for women so that they don't ever feel that they are alone in the middle of a crisis situation. This tool has been designed in a manner that it covers the various situations a woman can be stuck in like when she is alone or when she is in a crowded place or when she is in a public transport. By clicking the button an emergency message will be sent to the close contacts and the nearby police station. Using the camera user capture the image which is a proof for registering case. FIR module is helpful in registering case against the victim

### III. EXISTING SYSTEM

- Most of the existing systems for women security based mobile applications are concentrated on post execution implementation like after the person was affected by the unknown person.
- In the existing system the affected person was informed to their trusted persons who they are listed in their mobile contact list.
- Here no intimation sent to the persons who they are all in contact list before the harassment was happened.

### IV. PROPOSED SYSTEM

- In the proposed women security system the user can install our application and register with their information and they provide their current location and set the emergency contact numbers.
- When the user feels insecure somewhere they will intimate their current location to the nearby police station and the pre-mentioned contacts.
- Furthermore we can capture the accused picture when we are switch ON the emergency situation in our application.

### V. SYSTEM DESIGN

Design is the first step in the development phase for any techniques and principles for the purpose of defining a device, a process or system in sufficient detail to permit its physical realization.

The goal from this is to produce a model of the entities involved in the project which later need to be built. The representation of the entities that are to be used in the product being developed need to be designed.

#### USECASE DIAGRAM

Use case diagrams model behavior within a system and helps the developers understand of what the user require. The stick man represents what’s called an actor. Use case diagram can be useful for getting an overall view of the system and clarifying who can do and more importantly what they can’t do.

- Use case diagram consists of use cases and actors and shows the interaction between the use case and actors. The purpose is to show the interactions between the use case and actor.
- To represent the system requirements from user’s perspective.

- An actor could be the end-user of the system or an external system.

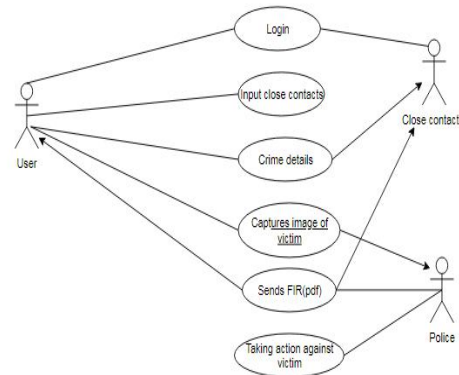


Fig : Usecase diagram

#### ACTIVITY DIAGRAM

Activity diagram is defined as a UML diagram that focuses on the execution and flow of the behavior of a system instead of implementation. It is also called object-oriented flowchart. Activity diagrams consist of activities that are made up of actions which apply to behavioral modeling technology.

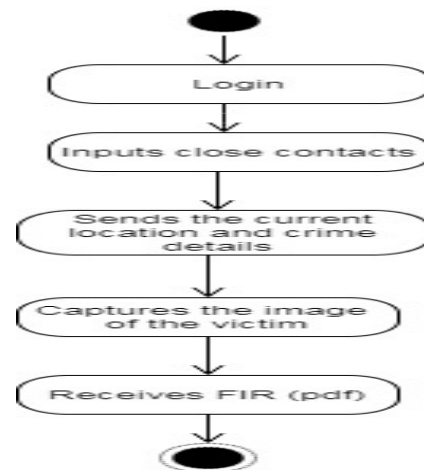
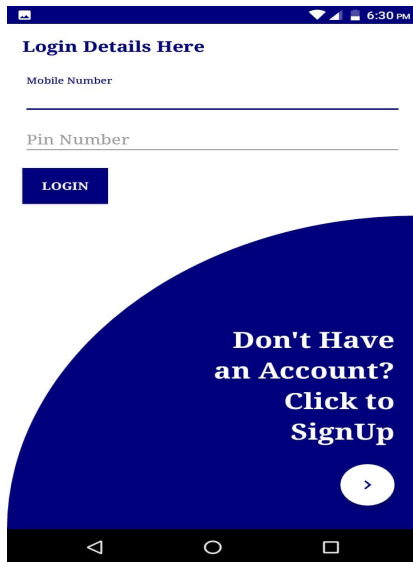


Fig : Activity Diagram

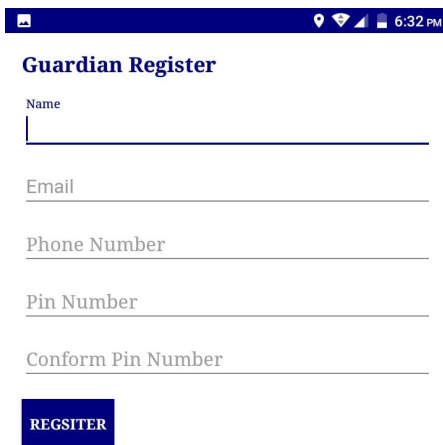
#### IMPLEMENTATION

These are some screens of our developed application

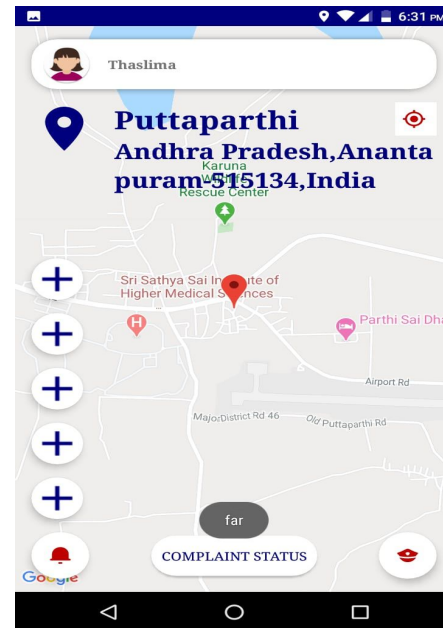
- At first we will have activity where we need to register if we are new to the application or else we can login into application..



And should give the details that are required and also mention the emergency contacts for alerting if there is any danger



The final output of the screen after the process had complete is



The icon at the right corner is police controller module. Police controller module receives the information sent by the user. By analyzing the information police go to the location and takes action against the culprit. Police can easily find the exact location because Google map has been integrated in the application .After this police prepare the FIR and this will be converted into “pdf” format. Pdf file will shared to the user and the closer contacts of the user.

Contacts registered by the user only have access to this module. Contacts receive the information about the crime incident sent by the user and the FIR sent by the police controller module. With the help of integrated Google map they can easily find the location of user and can able to go to the location as faster as possible .After receiving the FIR these people can easily interact with the police by using the chat module (ex: like comment section in facebook and Instagram) designed in this module for enquiring about the status of the case.

## VI. CONCLUSION AND FUTURE WORK

Women security application helps the women to immediately intimate about any harassment against them to the nearest police station and to their close contacts. Proper intimation helps the police to take necessary action against the culprit. All the processes using this application simplify the entire case registration process. People don't need to regularly visit the police station for enquiring about the case because FIR file is sent to the respected people after the intimation. This application helps to reduce the harassment and crime against the women with the available features.

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