



## WALK SAFE ANDROID APPLICATION

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### ABSTRACT

In the modern world, personal security is a crucial issue that requires urgent attention from each individual. This document outlines an Android software called "walk Safe" that uses GPS to send alerts and messages with an emergency button that activates if someone is in danger. Even though they might not have much time, all they need to do is hit the phone's button to send out an emergency distress signal. Our approach offers a workable, economical solution for problem discovery. Due to recent incidents like rape by drivers or coworkers, burglary, etc., women's security, especially personal protection, has been elevated to the top of the global priority list. The method locates women using Global Positioning System (GPS) technology. The Internet or specialist software can be used to display the location data provided by the device on Google maps. Companies are anticipating the security issue and need a system that will effectively assess the sssthe issue of people's security concerns when employing GPS-based tracking technologies.

**Keywords :-** GPS Technology, Android, Google maps,, Internet.

### INTRODUCTION

#### 1.1 Background Study

We are able to communicate with anyone, wherever in the globe, thanks to the always developing internet technology. Anyone in need of emergency assistance can use the same widely used internet network. This safety app for Android is intended to raise alarms and send messages whenever anybody is experiencing an emergency, such as a threat from a third party, a health emergency, an accident emergency, etc. The system allows the user to add his key contacts who he wants to alert in an emergency. Via this programme, the user can send warnings in the form of text, photo, or video indicating an emergency and providing further location information. Also, the user can get alerts from his contacts if they need assistance. Also, users can get local emergency information. This android-based safety app can allow a group of individuals keep in touch and assist one another in case of an emergency in the shortest amount of time feasible.

#### 1.2 Problem Statement

In potentially dangerous situations like kidnapping, muggings, or even robberies, the victim has very little time to plan the best course of action for escaping. But at a time of crisis,

asking for assistance is the most natural course of action for the victim to consider. Mobile app deployment may be expanded to include personal safety protocols in light of the growing awareness about safety issues.

#### 1.3 Significant of Project

Presently, it is not significantly safer for a person to travel alone at night. Bullying, thievery, and hijacking are risks that both men and women must contend with. When their children are out having fun or driving, parents get angry, and if it is late at night, it is torture for them. Similar to males, women find it terrifying to travel alone and think someone should go with them. A user can use this design's tone-defense, communication, and call alert system to prevent crimes while they are alone or in unsafe environments. Using a real-time monitoring system helps solve the issue of unsecured individuals. An initial strategy is a person who is adept in organizing many groups for a shared goal. Women's phones now have a variety of different security systems thanks to newly designed apps. This essay offers a crucial perspective on conventional fashions. If you are in difficulties and require assistance from the Musketeers or relatives, our operation will let them know. It uses SMS to convey your Android phone's location via GPS so that you can quickly get set up. Also, it automatically transmits a picture of the circumstance to those emergency connections. The top requirements for an intelligence security system are logically reviewed in this paper, together with the technological requirements and system-building difficulties. The victim

might use this system to contact family or musketeers for urgent assistance. This lessens the threat and provides support when needed. In this paper, a safety-driving system created for the Android platform is described. This operation's uniqueness in comparison to other safety operations is that it provides a visual of the situation to the emergency connections. The many operations that can be requested only send personalized communication to the registered number and not the location of the stoner. In the suggested and tested operation, the custom communication that was initially set in the operation is added with the longitude, latitude, and general notion of the place of the current position of the mobile stoner and transmitted.

## EXISTING SYSTEM

### A. Raksha.

The goal of this software is to protect women. The user of this programme may share his or her present location with the message for the chosen recipients. Even the capability of playing an alarm sound in an emergency is provided.

### B. Safetypin

is a personal safety app that supports the user in safer mobility decisions based on safety.score for a location. Based on a number of factors, the safety score of a location is determined. Even transmitting the location to the chosen contacts is a part of the application.

### D. Women Safety:

Similar functions, such as transmitting GPS location links and messages, are also provided by this programme. contact the contacts. The application's ability to take front- and back-facing pictures and upload them to a server makes it stand out from the crowd.

## LITERATURE REVIEW

### 1. Cheeka, a personal safety app for mobile devices

Year of Publication: 2019

Author: -Ananda Kanagaraj S.

An abstract: The number of users with GPS-enabled cell phones has significantly expanded. As a result, it can be effectively employed for numerous types of protection, including personal security. In this article, Cheeka, a versatile personal safety app created for cellphones running several operating systems like Android, Windows Phone, and Blackberry, is introduced. The timestamp of the location allows the user to follow Facebook pals. The application sends location updates to the user's trusted contacts every few minutes if the user feels in danger until the user feels safe. Consequently, until the person arrives at a safe location, he functions like a security guard trailing behind. Other important features include a speed meter, emergency buttons, and unapproved power-offs. With augmented reality, Cheeka may also show the user's friends who are in the area. Cheeka's accessibility encourages the creation of cross-platform desktop and mobile applications.

### 2. Title of Paper: Be Safe Application Year of Publication: 2016

Mr. Indrajeet A. Mane<sup>1</sup>, Miss Jyotsna R. Babar<sup>2</sup>, and Miss Snehal S. Patil<sup>3</sup> are the authors.

Stay Safe Application is a cutting-edge safety tool for women, older adults, and anybody else who needs help right now. Women experience a lot of physical harassment in public spaces including train stations, bus stops, and sidewalks. A sophisticated system for women's security is required to offer protection when they are out in public and using public transportation alone. In order to create a completely safe environment, a new paradigm for women's security in public areas is proposed in this study. Women's security is a crucial issue in today's world, and everyone needs it to be addressed. The "Be Safe Application" discussed in this article uses a mix of GPS devices and specialized software to track the user's location and give alerts and messages by sending relevant images. Employee security, particularly for women, has become crucial in the modern era as a result of recent incidents like rape by drivers or coworkers, burglary, etc.

### 3. Paper Title: Suraksha: A Human Safety Android App

- Anand Vaidya, A Anusha H K. Year of publication: 2019

Humans must take action to stop these tragedies in today's perilous world of ferocious incidents. Acting appropriately is urgently required for the benefit of humanity. The world of today depends on technology in many ways. The most well-liked device is the smartphone, which is taking the place of practically all others. The concept of creating a user-secure application is represented in this paper. This suggestion states that while registering for the application, the user is prompted to save the emergency contact information. Subsequently, in the event of an emergency, the pre-loaded message and the user's GPS location are sent to the contacts with the fewest number of clicks. Many methods have been developed to prevent accidents, but this project's special feature is the inclusion of a "gesture" that may be used to speed up app operation.

### 4. Paper Title: My Guardian: A Personal Safety App Authors: Fenin Ferina Azuma, Qistina Suraya

Year of Publication: 2018

It can be employed by transforming it into an emergency safety tool that users can use when confronted with potentially hazardous circumstances. By enabling users to rapidly alert people of an emergency with the push of a button, it will make seeking assistance easier. My Guardian is a smartphone software for personal safety that aims to make it easier for users to alert a list of predefined contacts if they feel uncomfortable or are just worried about traveling alone. The program allows users to text these contacts with their location by just pressing a button

### WALK SAFE AS A PERSONAL COMPANION

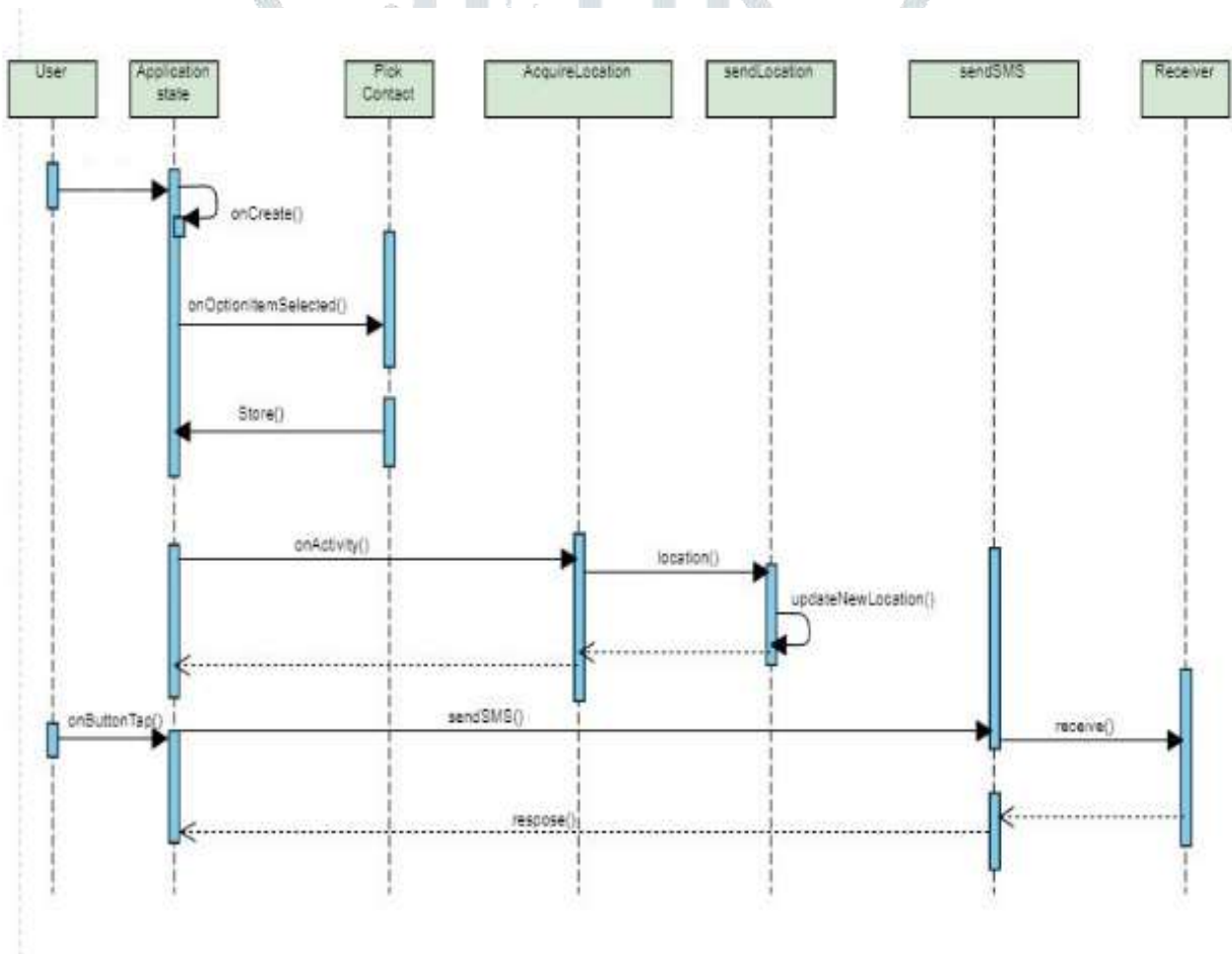
When users find themselves in a risky or unwarranted position, they can use the smartphone application Walk Safe as an emergency device. Any time or location must be able to access the mobile application.

For the program to function properly, the user's data and location services must be enabled. The user will be able to see their current location on a map once both services have been enabled. The mobile app also features an alarm button that will cause a deafening ringing sound to inform those nearby that the user is in danger and needs assistance right away. Aside from emergencies, users can use the app to share their current location with any other form of communication they may have on their cell phones to check in with friends or family when they are traveling alone.

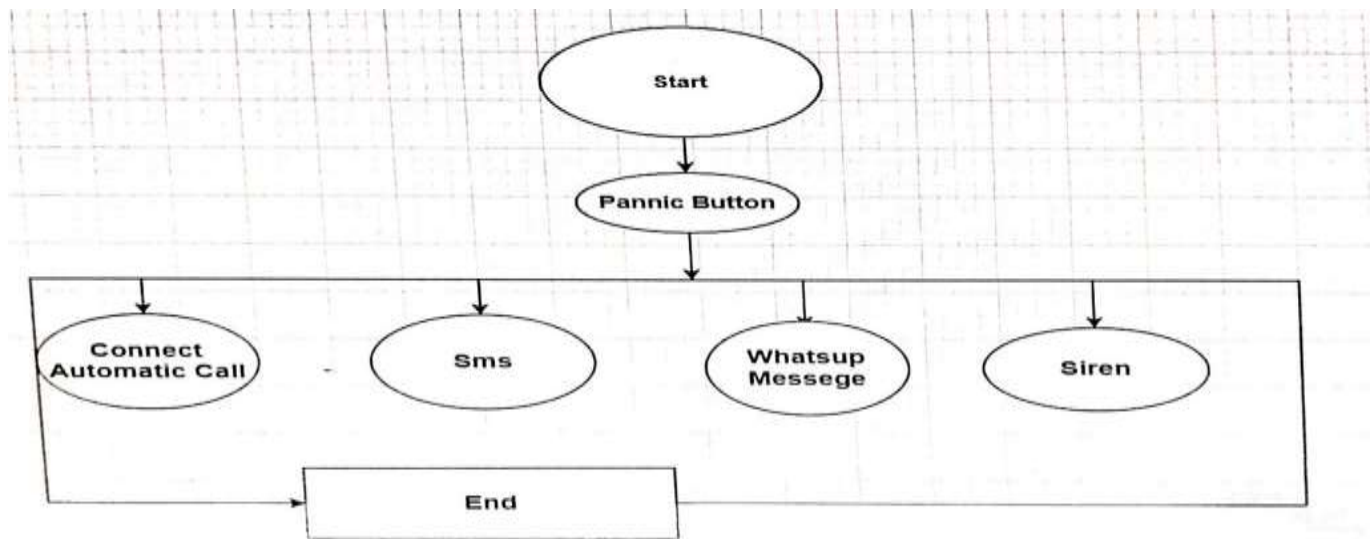
### PROJECT IDEA

In the modern world, it is dangerous for anyone to go alone at night, particularly women. Knowing what options are available to you to help you escape dangerous circumstances is an excellent strategy to lower your risk of being a victim of violent crime. These apps can reduce your danger and provide aid when you need it, whether you are in an emergency situation or got separated from pals during the night and are unsure of how to get home. Hence, we provide the Walk Safe Android Application, a smartphone application running on the Android operating system. The Walk Safe refers to self-defense, protection, and saving others from harm.

### SEQUENCE DIAGRAM



## DATA FLOW DIAGRAM



## GOALS AND OBJECTIVES

Because of how people feel about security in the present, our application primarily focuses on the safety of women.

I Main Goal: To create an Android application with a personal safety focus.

Making this application accessible on additional platforms is the secondary goal.

## RESULTS AND DISCUSSION

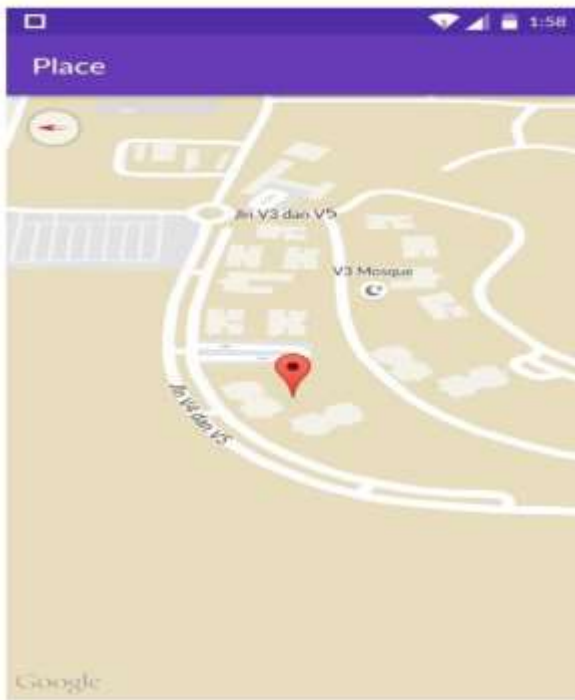
The application's outcomes are discussed below:

As soon as the user presses the button, the siren will immediately start to sound, and then an automatic call will be placed to the emergency numbers and the contacts that have been pre-selected in the database. At the same time, an SMS message asking for assistance is sent to the contacts that have been saved, and it also sends a message on WhatsApp with a live location. Due to the prompt and accurate information provided, assistance can be sent as soon as possible.

## RESULTS



Fig. 1: Message page



**Fig.2: GPS location**

## FUTURE SCOPE

As the technology emerges, it is possible to upgrade the system can be adaptable to desired environment. We will be updating this future in our app so that app can give the access to the smartwatch device. We will try to add more useful modules in this app so it will more adaptive

## CONCLUSION

Since everyone travels with a smartphone, whether they travel alone or not, they can use their phone as a security guard for them Android Applications for the protection of people. This software can greatly assist not only the person but everyone anywhere from harmful conditions. This app not only assists in real-time GPS position tracking of the victim but also alerts the reliable contacts listed in the app's contacts list. The trigger button, which activates the program after being pressed a predetermined number of times, is this application's strength

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