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A Smart Intelligent System to Alert the Individuals from Assaults and Attack

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Abstract: *In today's world it is not safe for a person to travel alone because there will be high chances of becoming a victim of violent crimes such as robbery, domestic violence, assaults and harassments. The good way to reduce chances of these attacks is to identify and call on resources to help you out of unsafe situations. This application can be accessed by single click, when the user is under assault or any attack then they would press a button on their phone and it will gather their current location and start recording a 5 second video with sound. This will then automatically send the location and video straight to the police or friends and family in the mentioned contact details. When you want to activate the attack application, press the panic button. When it is in active state you can deactivate the application by pressing the deactivate button. You then enter your 4 pin code and press ok to deactivate it. You only have 10 seconds to do.*

Keywords: Intelligent System.

I. INTRODUCTION

There may be a situation where the person has to travel alone a long distance at an odd hour and perhaps even by public transport and may face some danger. At that time, a personal safety app will have easy access to overcome the situation. There are no mobile applications for the person's safety, if the person is in danger or any panic situation then he/she makes a call to his friends or relatives. The person who is in danger (he/she) can't explain and show his/her position and situation, but in this project with the press of one button, people can alert selected contacts of the person who is in danger and share the location. The personal safety application requires the name and number of the person who is to be contacted in times of emergency. Users can add multiple people in the emergency contacts list. These are the people who will receive notifications or SMS in case of an emergency.

All it requires is the user's action to trigger an button provided and it sends messages as fast as the device can manage.

Once the panic button is pressed, the people in the emergency contacts will get a message and approximate GPS location of the cell phone. In this project a smart intelligent system is proposed where it makes use of the services of camera, sms, email, contacts and provides the user with quick and easy access to vital information.

The information consists of the location of the nearest hospital or police station. It also finds the location of the victim quickly and sends videos to the family and friends via contacts and emails.

The system tracks the location by using GPS which sends the current location co-ordinates to registered contact number. The system ensure the users to get the help when they are in a situation where they can'treach out for it themselves.

II. LITERATURE SURVEY

In paper [1], the author represented an android application entitled "GoFearless". It is an android app with unique features such as instant cautioning the trusted contacts in conjunction with user location and other options like addresses of adjacent police stations, police contacts. This app is developed in Android Studio utilizing Java Development kit.

In article [2], the author discussed the usage of mobile phones with GPS unit has increased rapidly from 3% to 20% in the last five years. So, a smart phone can be used more efficiently for personal safety or various other protection purposes especially for women. This application to send the message to the registered contacts continuously un till they are pressing 'HELP' button. Location tracking information through SMS helps to find the location of the user quick and can be rescued safely. This application aims to ensure the women safety.

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The author of paper [3], proposed a methodology where there are few web applications or mobile applications using for women safety and emergencies, but it will not work at every situations. The woman cannot stay on the mobile at all the time. Instead, she can be monitor by wearing smart watches. It can be accessed by wireless technologies like GPS, GSM, and monitored by nearby devices.

The publication [4] as describes the safety of women is concern urgency in India and other countries. The main issue in handling of these cases by the police in constraints preventing them from responds quickly to call of distress. These issues include not knowing about the location of the crime, at the user's end, reaching the police secretly is a challenge. To main aim in the removal of these issues, this project introduces a mobile application called WoS App.

The paper[5] proposes the Safety for women has become a major issue as the day-by-day cases increasing in all over the countries. This project explains women's safety and their security by using an application to send message, which shows safe location & alert authorities. In this project, an android based smart phone with an advanced feature that alerts and provides the location-based information. It provides self-defense and SMS alert when the woman is in danger. It will recognize the voice and send the message to contact send alert SMS with GPS location to contacts, also includes features such as audio recording. It could be activated by voice command or SOS button key.

The article [6] strives to create an android app which can help to protect women in any situation she might face in her day-to-day life. It uses GPS location tracking to provide a simple and fast way for the registered contacts to know that the user is in trouble and for them to reach the user easily. It also provides safety features such as a voice recording which can help a woman or the police for identification or situational evidence, a siren to alert the public of any misbehavior, emergency helpline numbers which can be used to directly connect via call to emergency services according to the situation faced by women for their safety.

III. PROBLEM STATEMENT

To design and develop an android application for individuals to secure themselves from different kinds of assaults and attacks.

IV. OBJECTIVES

- To find the location of the victim quickly and send it to the contacts and emails.
- To makes sure the user to get the help when need in a situation where they can't reach out for it themselves.
- To activate the application by single click or shake option.
- To prevents crimes such as violence, sexual assaults, and provides proof in situations *that have already occurred.*

V. HARDWARE USED

- Processor: intel core5 or above
- 8GB SD-RAM
- 2 GB Hard-Disk.

VI. SOFTWARE USED

- Design Tool – Android studio, eclipse.
- Server: Apache server 2.0.
- Operating system :Windows 10 or above
- Programming language: java, xml, json.

VII. SYSTEM ARCHITECTURE

The user will register in to the application by providing details and setting up the username and password which are further used in the login process. Then, he/she can add the security contacts and mail ids. When the user press panic button uses shake SOS option then, message with user location will send to the contacts which already stored in the database.

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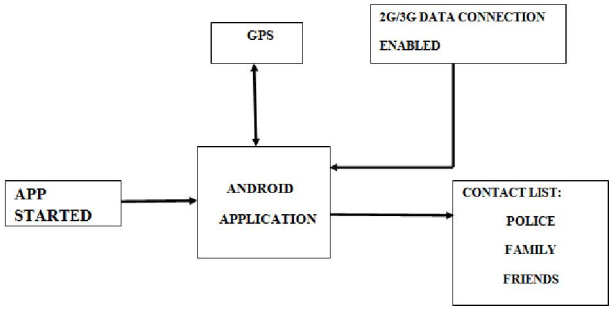
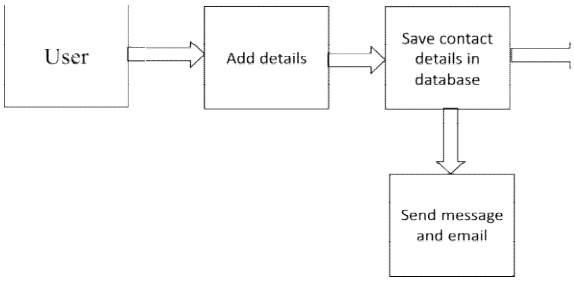


VIII. FLOW DAIGRAM



IX. METHODOLOGY

Module 1: User's module

In this module, user will have to register for the first time and then they have to store the details of the contacts in security module.

Module 2: Activation module

This will activate the application when user press the panic button when he/she in unusual or dangerous situations. This will activate the user's location and record the 5 seconds video of the surroundings and send it to mentioned contacts and emails

Module 3: Security module

User will get access for complete application and user will enter the details of his/her contacts which gets the location and alert messages of user when he/she press the panic button. He/she can change the security contacts and email id.

X. EXPECTED OUTPUT

USER DATA:

User will register into the app for the first time, then he/she can have the access of app and save the security contacts and email id's.

PANIC MODE:

User need to press the panic button when he/she is in danger, then the application will be activate trigger.

MESSEGE /MAIL:

When user triggered the panic mode then the registered contacts will get the message saying that he/she is in panic and send the approximate location of the user. Registered mail id's will get the same message with mp4 attachment of video of users surrounding.

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XI. CONCLUSION

The android application will provide emergency responds with crucial information at the earliest possible time. Reducing the time between when an attack or panic situation takes place and when it is detected can reduce the being a victim rates. Android Application for the safety of individual will helps tracking of live location of the victim using GPS.

The advantage of this application is even when the location of the victim device is changes then also we can get the exact location. As a future scope, this application can be access with all the phone numbers of regional police. Some use cases such as rescuing victim, when the mobile network is not available, after initial alert or switch off condition.

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