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Raksha: A Safety Alert App

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Abstract: ***In this modern's time, it will hazardous to travel alone for a person at night especially for women. To providesafety and reduce the chance of becoming victim of violent crime it is necessary to have an app which safe for you, it is identify and call on resources to help you out from unsafe situations. In today's time, people using smart phones hasrapidly increased, a smart phone is essential need of everyone in today's time,so smart phone can be used efficiently for individual security or various another defense. The terrible incident that heated the entire nation have wake up us to go for the safety issues and so, host new appshave been developed to provide security systems to women via their phones. This android application is for the safety of the people and this app can be activated by the single click, whenever need is arising. A single click will identify the location of the place through the GPS system andsend SMS to the registered contact. Raksha, A Safety Alert App have aunique feature, in this application the SMS is send to all the five contact whichis registered in this application. Continuous location tracking is also added in this application. It has anambulance call and police call feature andalso have a women helpline number.***

I. INTRODUCTION

In today's time safety has become the most priority of the Indian Government considering the rising cases of crime against both men and women. There are many applications which are built for women and for their safety like Noonlight, Sheroes, Sake2saftey, B Safe and etc. [21]
[31] [41] and all these required internets, but our application is different, it for all gender either it is a male or a female. In many situation people don't have internet connection [5] [6] [7]. So, we can with the solution that our application which work with us without internet services. This safety app is built due to the increasingurgency in India and other countries. This app is design to provide safety among the peoples. Raksha, A Safety Alert App projectis a mobile application which ensures that peoples are stays safe always. Thisapplication is developed in Android platform. A Safety app is the best app to inform and update your loves ones if you are in an unsafe place. The app is fastest and easiest way to update your loves ones about your location and other details. An android app which can INSTANTLY alert the Guardians (along with user location)whenever the user is in an emergency situation. This app has SOS function which send SMS to saved contacts, SOS make calls, it suggests safe path and also the nearest polices station. Our application is simply start by clicking emergency button or by pressing five times power button, then the app simply sends the emergency message containing GPS location to the mention mobile number. The objective of this project is to create an android based and user-friendly application. As the woman ought to travel late night generally, it is necessary to remain alert and safe. Most of the female these days carry their Smartphone with them. so, it is necessaryto have at least one of the personal safety apps installed. So, this app helps the system sends SMS. Call and location one of the five nearest friends in the List & Guardians and it also send call, SMS, location to the nearest police station, setting —Emergency Services, low battery alert, set scream sound, fake call timer (on long press), the phone vibrating and siren starts ringing. This features for both everyday safety and real emergencies, making it an ultimate tool for all.

II. RELATED WORK

As a part of literature survey, weinvestigated some of application based on women safety app. The aim is to see how these application work and how they can improve.

A. A Mobile based Women Safety Application (I Safe App)

The personal safety application required the name and number of the person who to contact in an emergency time. User can add number of people in their emergency contact list. These people are the whomwho get the emergency SMS notification inthe case of emergency. All it required is theuser's action to trigger an SOS button provided and it delivered the message as fast as possible. Once the SOS button hit, the people in the emergency contact listwill get the message like: I am in an emergency: followed by another message, which has the extract or approximate GPS location of the person who was is adangerous situation. The user can also make a video call or audio. This app also provides first aid measure that should take in the emergency situation.

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B. Abhaya: An Android app for the safety of an women

This paper present Abhaya: an android app for the safety of an women this app is activated by only single click, whenever need arise. A single click in an app can send the location of the place through the GPS and send a message to the registered number with location in an URL form and italso make call to the first registered number to help in dangerous situation. The unique feature of this app is that it continuously sends then SMS to the registered mobile number in every five minuntil the stop button is clicked in the application. Continuously location tracking information help to find the location of thevictim and can be rescued safely.

C. Sauver: An Android Application for Women Safety

This application can be activated by a single click when the user feels that she is in danger. This application sends the user location to the registered contacts for every few seconds in the form of message. Thekey features of this application are alonguser location, one of the contacts get a call. Also, the register registered contact and the GPS location save time to time in the database.

D. Women's Security

This application is developed by App Soft India. The key feature of the application is: the user has to save some data and this include email address and password. Then, application is loaded as the user start theapp. Another key feature of the app is that it records the voice of surrounding for about45 sec, and this recorded voice, text messagecontaining location of the user.

III. COMPARISON CHART

S/no	WriterName	Title(App)	Parameters							
			Tracking	Audio Recording	Online Complaint	Screen Alarm	Notification	Fake Call	Cost	Real Time
1.	Emma Buchanan	SheSafe	Yes	No	No	No	Yes	Yes	Free	Yes
2.	Becky Lee	Guardly	Yes	Yes	No	No	Yes	No	Free	No
3.	PhungChris Hulls	Life360	Yes	No	No	No	Yes	No	Free	No
4.	Ninja Theroy	Fight back	No	No	No	No	Yes/Sms	No	Paid	No
5.	FF Bureau	Rakshak	Yes	No	No	No	Yes/Sms	Yes	Paid	Yes
6.	Gopika Bhat	Be Safe	Yes	No	No	No	Yes	No	Free	No
7.	Duy Phung	Scream Alarm	No	Yes	No	No	Yes	No	Paid	No
8.	Kalpana Viswanatn	Safety Pin	Yes	No	No	No	Yes	No	Free	No
9.	Ravi Sekhar Yarabothu	Abhaya	Yes	No	No	No	Yes	No	Free	No
10.	Shreya Chakraborty	Women Security	Yes	Yes	No	No	Yes	No	Paid	No

IV. RESULT

The following figure are the screenshots of Raksha, A Safety Alert Application, initiallythe starting of it.

Fig 1 represent screenshots of the initially application immediately after opening the application which is installed. In starting there is a home page.



Fig 1. Main Home page

Fig 2 the user enables the GPS them the application started. If the user didn't enable the GPS, then the application will close automatically.



Fig 2. GPS enable page

Fig 3 if the GPS is not enabled then the usershould enable the GPS in there setting.

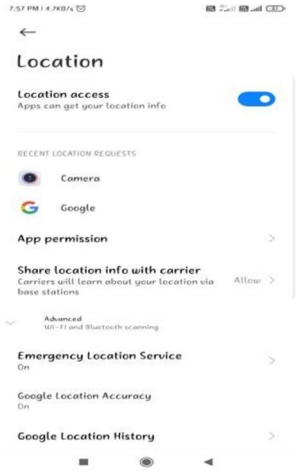


Fig 3. GPS enables through the setting

Fig 4 it contains five contact numbers to be filled of which first number will get call and SMS both and the remaining numbers will receive only the SMS. Also, the layout contains three buttons "ADD", "DELETE", and "VIEW" buttons.



Fig 4. Add contact page

Fig 5 it contains three buttons “AMBULANCE CALL”, “WOMENHELPLINE NUMBER”, and “POLICE NUMBER”.



Fig 5. Emergency contact page

Fig 6 represent the SMS received by the one of the contact numbers that entered by the user in their application. The SMS containsa message “Help me my location is and the URL” .



Fig 6. Location send SMS to the saved contactnumber

V. CONCLUSION AND FUTURE WORK

Tin this paper we have describe Raksha, A Safety alert application for the safety of boththe men and the women. Tis application helps in tracking the live location of the userthrough then GPS along with sent the SMS to the registered numbers and call to the firstregistered numbers. It sends SMS in every30 sec of time interval.

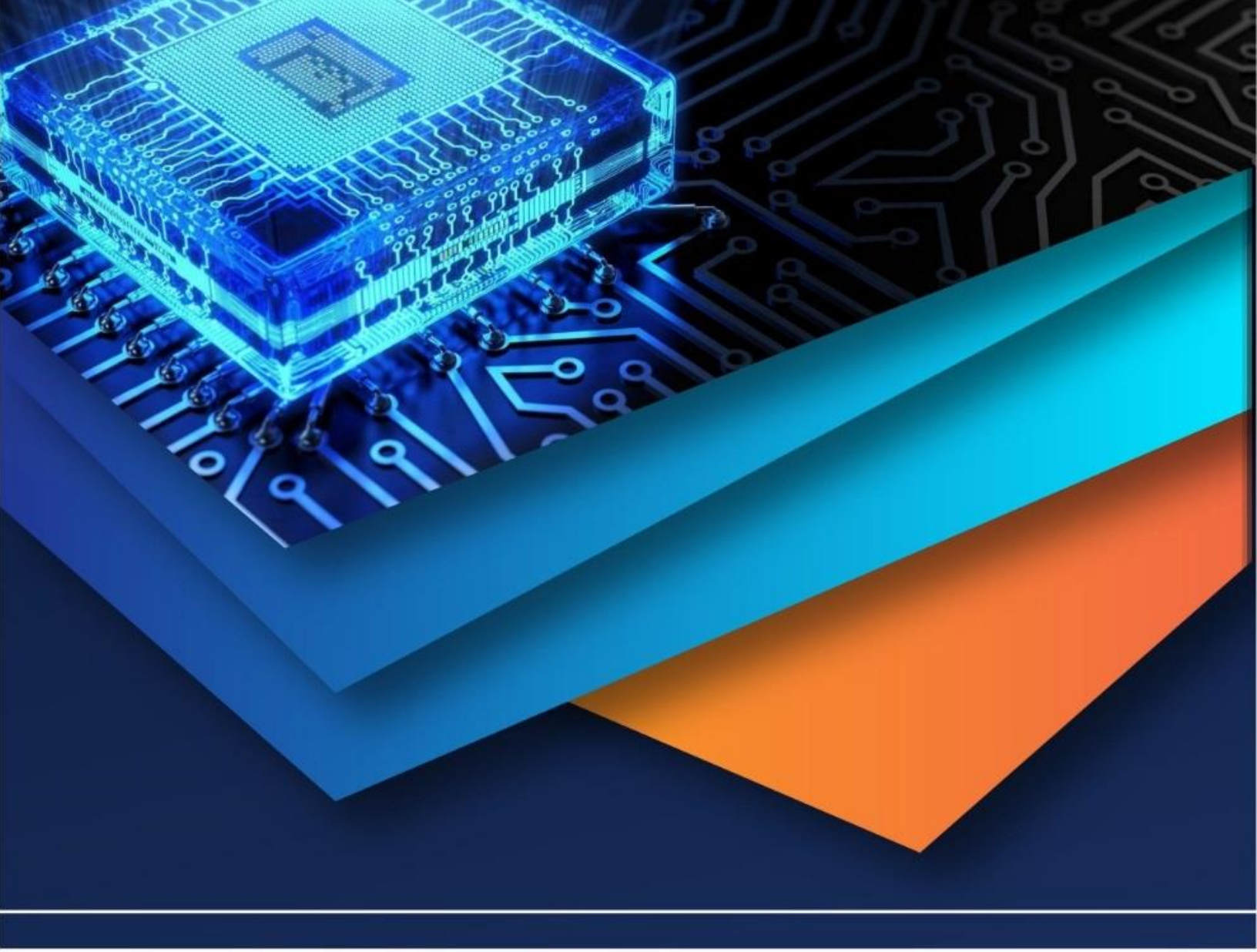
A. Future Work

Unfortunately, the safety is in doubt and security is not concerned. Many cases come across the headline against men and women but most of the women that indicate the increasing tread of sexual assaults, harassment, rapes and it is still happening intoday's generation. Around 80 percent of women lose their confidence and have fear toward the realization of freedom. So we aretrying to contribute a little effort toward the men and women and their safety. This application is very helpful to anyone it is either a women or men. In this application first user will activate their location if their location is enabled, then they should registerthemselves in this app and they should add five people and it is called mediator. This apps use technical functions like Geo Fence technology, GPS location identification, SMS alert, real time tracking and location ofnearest police station.

As the technology change day by day, it is possible to upgrade the system and it can bemore desired environment, many new features can be added to this application making it more user-friendly

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