Android Application for Women Security

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Abstract: The use of smart phones ready with GPS navigation unit have accelerated swiftly from 3% to extra than 20% in the past five years. therefore, a clever cellphone may be used efficaciously for non-public safety or various different protection functions especially for women. This app can be activated with the aid of a single click on while the person feels she is in hazard. This application communiqués the person's location to the registered contacts for each few seconds in the form of message. consequently, it acts like a sentinel following at the back of the man or woman till the person feels she is safe. This paper affords evaluation a completely unique characteristic of this utility to ship the message to the registered contacts continuously until they are pressing 'assist' button. non-stop place monitoring facts through SMS facilitates to locate the vicinity of the victim quickly and can be rescued properly. This software objectives to make sure women safety. that is accomplished by means of addressing the situations that compromise the protection of girls in these days's day and age. This app ensures ladies aren't put into such situations thru diverse functions supplied by our gadget.

Keywords: Android, GPS Location, Database, URL, Smart Phone

I. INTRODUCTION

In these days's world, it's far now not secure for a character to tour on my own at night specially for girls; it can be high time to journey on my own due to the fact a female is not exceedingly robust as guys to shield herself from them. the good way to lessen chances in becoming a victim of violent crime (robbery, sexual assault, rape, home violence) is to perceive and call on resources to help you out of hazardous conditions. whether you are in instantaneous trouble or got separated from pals during night and do now not understand to attain domestic, having those apps to your telephone can diminish our risk and carry assistance while we require it. In this paper, we present protection Alert an utility for clever phones working over android platform. countrywide Crime facts Bureau of India, pronounced incidents of crime against ladies accelerated 6. four% all through 2012, and a crime towards a female is committed every three minutes. sixty-five% of Indian guys trust women must tolerate violence in order to hold the own family collectively, and women from time to time should be crushed. In January 2011, the international men and Gender Equality Survey (pix) Questionnaire reported that 24% of Indian men had committed sexual violence at some point for the duration of their lives. Our motto in growing this app is to offer safe surroundings to girls through smart smartphone as nowadays most people are sporting clever phones to anyplace, they go. Of course, the Delhi Nirbhaya case has made the government to make the laws more difficult, but despite the fact that the sexual crime price in India have not decreased. So, it is higher to take our very own safety measures as a substitute than becoming a sufferer of those crimes. This paper is organised as follows. section– II describes the literature survey of the present apps and the associated work of creating the utility. section – III affords the proposed work and key functions of the software. consequently, the implementation of the software is described inside the section IV. The segment – V affords the testing consequences of the software after putting in within the clever phone. finally, segment –VI concludes the paper and gives the destiny paintings for the paper defined within the phase – V and the work gives the final end within the segment – VI...

II. RELATED WORK

As a a part of literature survey, we investigated a few applications of girls safety that already exist in marketplace. The aim is to study how those applications work and to see how they can be progressed and how are they different. To date it is recognized that the subsequent Android Apps of women safety are exact and are supplying relatively comparable provider.

A. ladies'S safety: This app is evolved by way of AppSoftIndia. The key functions of the app are: the user has to store a few information. those info encompass: e-mail deal with and password of the person, email cope with and cellular wide variety of the recipient and a textual content message. Then, app is loaded as a "widget", in order that while the user touches the app, it signals the recipient. another key characteristic of app is that it data the voice of surroundings for about

forty five seconds and this recorded voice, text message containing location coordinates of the user is despatched to the recipient cell wide variety.

B. POLICE close by: This app is developed with the aid of big structures in 2013. The police nearby scanner android app is built with the intention to connect citizens & college students to their nearest police stations town clever at one click and will permit the network to emerge as more involved proper from your Android clever telephones. Any local, state, or school, college police department as nicely as other law enforcement agencies can use Police scanner Android App to offer you with more advantageous carrier and get higher communication. Police close by app is free to download without signup.

C. SCREAM ALARM: Scream Alarm, an android software developed by means of go pal AppMaker in November 2013. via clicking this app, it generates a completely excessive-extent scream in times of distress when the lungs of someone fail in screaming in hassle. The generated scream is in a female's voice is severely beneficial in discouraging the potential robust trouble makers. The best work accomplished by means of this software is each time the individual pushes or touches the utility, the smartphone screams loudly with a female's voice. The programs referred to above work on exceptional platforms, some apps paintings on Android, windows, IOS but some most effective in android or home windows. however this utility security Alert is designed handiest for android platform however in future it is able to be prolonged to work over home windows and IOS platforms. Android platform is open supply and turned into constructed using open Linux Kernel a good way to permit the developers in developing fascinating cellular packages a good way to take complete benefit of the handset gives. A virtual system is designed and utilised with the aid of Android in order to optimize the reminiscence and hardware assets of cellular environment.

Android can be enlarged appropriately to merge new c technologies as they emerge. subsequently, android platform will constantly maintain to be developed as a developer community in order to build modern packages for cell surroundings. In contemporary global, humans the use of clever phones have multiplied hastily and subsequently, a clever smartphone can be used efficaciously for private safety or numerous other protection functions. The heinous incident that outraged the complete nation have waken us to move for the safety issues and so a bunch of latest apps have been developed to offer security systems to ladies via their telephones. This paper provides, an Android utility for the protection of women and this app can be activated this app with the aid of a single click, each time want arises. A single click on this app identifies the area of location via GPS and sends a message comprising this region URL to the registered contacts and additionally name on the first registered touch to assist the only in risky situations.

Fig:1: Stastics of international crime record

In determine 1 as consistent with the scary statistics, each 16 minutes, a female is raped someplace in India, and each 4 mins lady experiences cruelty on the hands of her in-laws. In 2016, the u . s . a . had recorded 88 rape instances each day. Of the full 32,033 reported rape cases in the year, 8% have been from the Dalit network.
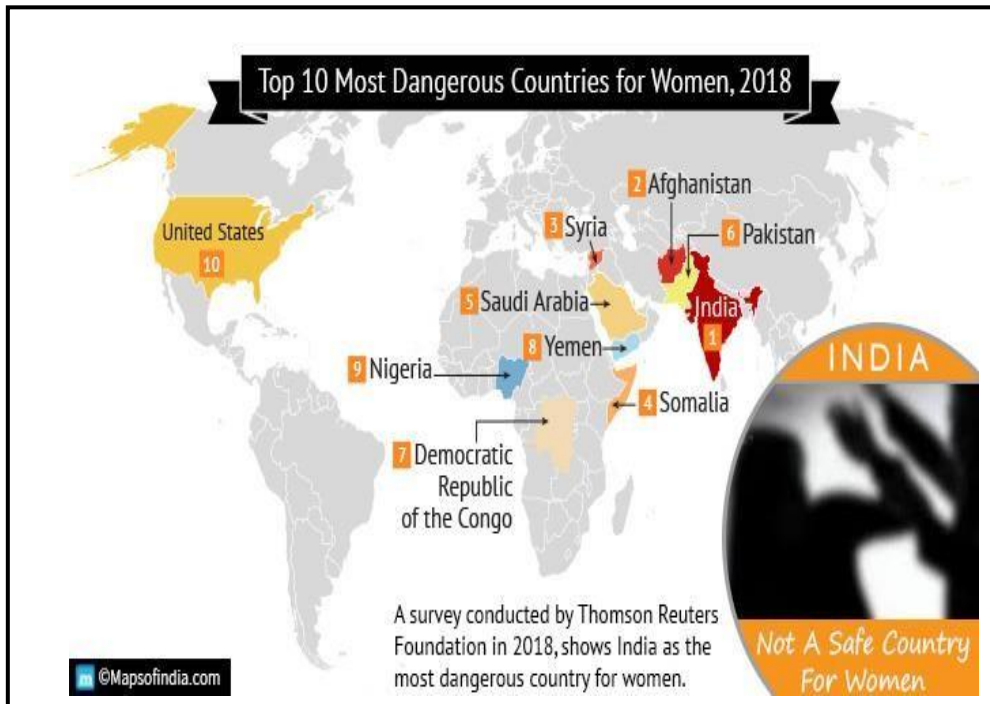
Fig:2: Survey of countries for crime on women

In discern 2 the general public of cases underneath crime in opposition to ladies under IPC had been registered under 'Cruelty via Husband or His relatives' (30.9%) accompanied by means of 'assault on women with cause to Outrage her Modesty' (21.8%),

'Kidnapping & Abduction of girls' (17.nine%) and 'Rape' (7.9%) The crime charge registered consistent with lakh girls population is sixty two.four in 2019 in evaluation with 58.8 in 2018", the facts shared by using NCRB confirmed.
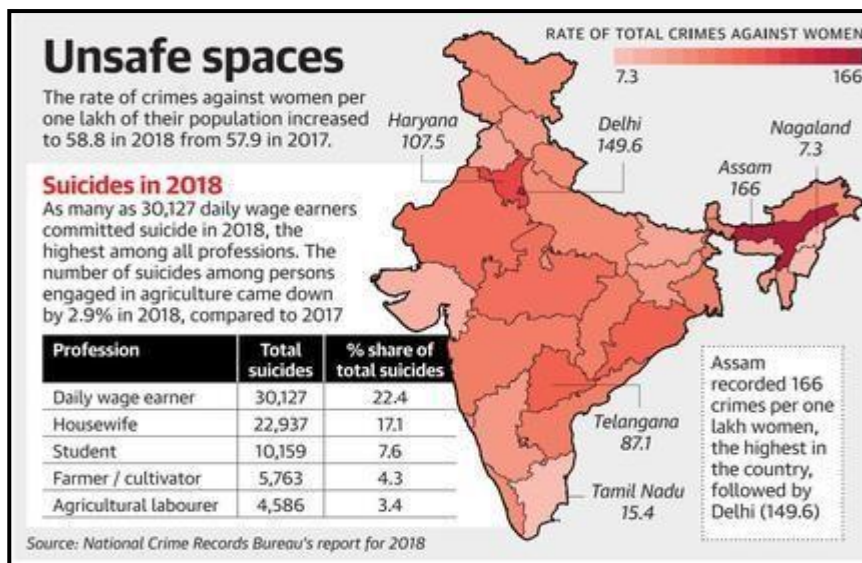

Fig:3: Rate of total crime against women

III. PROPOSED WORK

In this proposed system, the person writes the message content and additionally selects the contacts to which the message has to be sent and shop it.

So, when he is in some danger by means of simply beginning the app and urgent the help button, the message saved might be sent to the ones numbers he has delivered in this application. so that he can acquire the help in correct time.

IV. ADVANTAGES

- Your cherished ones and close buddies can robotically receive textual content message.
- Exact time of the alert induced. Your location (with map hyperlink).
- The battery level of your smartphone.
- It monitors the common no of shakes in a selected locality or area and marks that particular area asDANGERZONE
- Automated spark off for activating place.
- Self-protection video for guiding sufferer, how to stay safe and guard in dangerous conditions springingup.

MODULES:

Assist Button
Which is useful for the person whilst he is in some trouble or wishes any assist? whilst the person opens thisutility, he can see a assist button. Then send SMS to sign in contact nos.

Adding contact
The usage of this module including three Emergency contacts numbers save it, so including touch nos.

Messages
Save some message, to your chance state of affairs. It's the usage of to Emergency scenario.

V. FEATURES OF PROJECT

To lessen consumer effort and clear up troubles inherent to the mobile phones small display screen, several capabilities are provided at the cell viewer.

- supports more than one connections on the equal time.
- specific work modes: "view most effective" and "complete control".
- exclusive show modes: "windowed", "full screen", and "scaled".
- Runs as a carrier at the NT structures.
- Works through the firewalls and helps DHCP.
- supports excessive display resolutions and shade depths.

The proposed structure depicted under suggests the exact waft of manipulate of the android software. right here the database acts as a storing media among the two cellular gadgets.

The database information i.e., to which database the records has to be sent, the URL of the database is coded itself in the application. From the database, the vicinity coordinates are sent continuously to the registered contacts of the person.
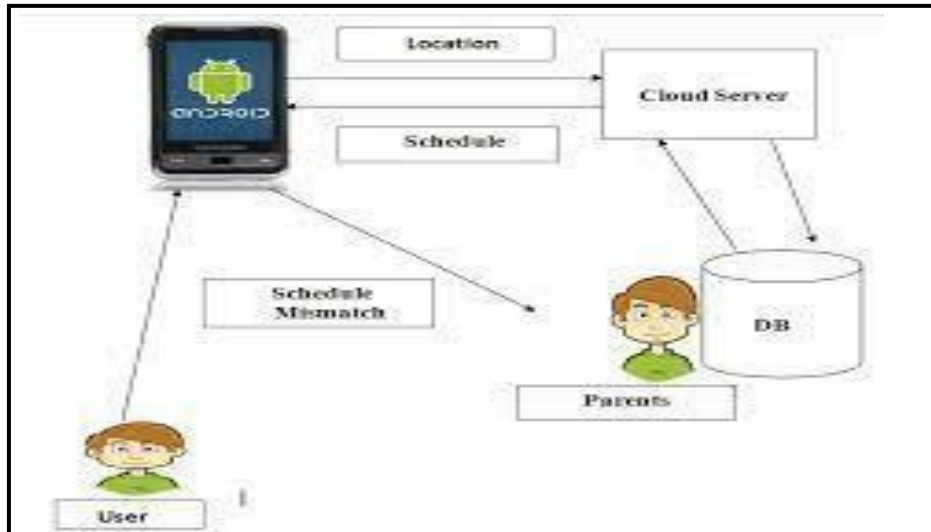
Fig:4: Proposed Architecture on android for women safety

VI.   IMPLEMENTATION

This android utility is beneficial when the consumer is in some problem or needs any assist. while the person opens this application, can see a assist button. also, they can save a message and 3 touch numbers. while the person is in some difficulty or wishes any assist, they actually want to open the app and click on the "assist" button. This software sends the message to the ones contact numbers which he has stored. the whole assessment may be performed in 3 principal steps which are described in my view. evaluation describes the whole implementation of the application in 3 fundamental steps. the first main step is to input the touch info within the application created. theones contacts can be our family, pals and chief cop of the unique town the character we stay in. whilst the application is mounted in the smart cellphone for the first time the above contact info ought to be supplied.

Fig:5: Implementation of proposed Work

 The utility will shop the given records. the second major step is to ship the GPS data (GPS records can be in the shape of the Co-ordinates or the URL which leads to the area of the character any stock map application in the likes of 0.33-celebration application like Google, Nokia and many others.) to the registered contacts at hazard instances orwhen the person is needed to be rescued. This step is followed most effective while the rescue button is pressed in utility. The entire manner of this step is completed most effective when the device is linked to the right mobile community and area carrier in the tool is switched on (GPS). The 1/3 predominant step incorporates of work performed in sending the message containing vicinity URL continuously to the registered contacts. right here, we've got set the time c program

languageperiod as five mins, so for each 5 minutes of time-lapse, SMS is despatched to the registered contacts. therefore, the specific location of the individual can be tracked by the utility continuously which is the number one intention of the proposed system and the character may be rescued.

VII. CONCLUSION AND FUTURE SCOPE

This paper describes the application, security Alert that is designed in android platform for safety of girls with the aid of latest upgrades in cellular era. on this venture to use which is useful for the consumer whilst he's in a few trouble or needs any help. when the user opens this utility, he can see a help button. also, he can keep a message and three touch numbers. whilst the user is in some trouble or desires any help button. So, while the person opens this application can see a assist button. click on that button to send SMS to sign in user. For destiny improvement, this application may be integrated with the regulation enforcement database (e.g.,town police manipulate room database)instead of experimental database used here inside the mission. also, some in addition upgrade may be performed when the cell community isn't always to be had for the root tool and also if the basis tool is switched off. consequently, this app can help in a massive manner to rescue the women or guys from hazardous conditions.

VIII. ACKNOWLEDGEMENT

REFERENCES

[1]. Android Developers, Location APIs. URL: http://developer.android.com/google/playservice s/locat ion.html

[2]. "WOMEN'S SECURITY", Android   App developed by App Soft India, December 17, 2013. https://play. google. com/store /apps/ details? id= com. Zayaninfotech. security& hl=en

[3]. " POLIE NEARBY", Android app developed by Big Systems in 2013. https:// play. google. com/ store/apps /details? id=com. smoketech. PoliceNearby& hl=en

[4]."SCREAM ALARM", Android app developed by GoPalAppMaker in November,2013 https: //play. google.com/store/apps/details?id=gopal. appmaker. android. com&hl =en

[5]. Saranya, J.; Selvakumar, J., "Implementation of children tracking system on android mobile terminals," 2013 IEEE International Conference on Communications and Signal Processing (ICCSP), vol., no., pp.961,965, 3-5 April 2013.

[6]. Android Studio Development Essentials Book by Neil Smith

[7]. An Introduction to Database Systems Book by Christopher J. Date firebase.google.com developer.android.com for SDK

[8]. B. Chougula, "Smart girls security system," International Journal of Application or Innovation in Engineering & Management, Volume 3, Issue 4, April 2014.

[9]. PalvePramod, "GPS Based Advanced Soldier Tracking with Emergency Messages & Communication System," International Journal of Advance Research in Computer Science and Management Studies Research Article, Volume 2, Issue 6, June 2014.