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NIDAR - A WOMEN SAFETY APPLICATION

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ABSTRACT

In the past few years, women have been empowered in the various fields. They have been given lot more opportunities but when it comes to their security, we are answerable. With rapid industrialization, women may need to travel late hours and alone. It is not always possible for the victim to use phone and send alert messages or ask for help from emergency contacts. So, there is need to have an application that can be used to continuously monitor the location and can see the user in order to protect her from any mishappening.

Keywords: Women, Android, Application, Phone, Location.

INTRODUCTION I.

Swami Vivekananda stated that, "The best thermometer to the progress of a nation is its treatment of its women." The amount of violence against women has increased by many folds due to the greater exposure of women in every field of life. Women were previously restricted to the four walls of the houses and after globalization they have got the chances and opportunities to stand equally in all sectors at par with male. Women are exploring themselves in the various arena in this world and yet are facing many challenges and threats in their fields. Women security has become a major concern in the recent times as woman is not highly strong as men to protect herself from them. Many a times women are not able to activate application for help in such a situation. Therefore, this application will be giving the right to the emergency contact to access the camera of user while she is travelling alone (only if she gives permission). Women Safety Application called as "NiDar," is a Hindi word which means fearless is intended to improve the situation. With this app user can contact their loved ones in case of emergency. User can also track its current location using GPS and can also find the safe path to travel for their destination. There is an option of playing siren so that a fake attempt can be made to draw attention. This app can take image from front camera and back camera and send it to the emergency contact lists previously stored by user along with the current location of the victim. At times there is no emergency but to be cautious we want to know the safest route for our destination. In such a situation this app can access your current location and your destination and calculate the safe route for you. Gender-based violence has become a national and global issue because of decades of civil society activism, assisted by women's organization. Even though each country has an extraordinary number of laws against domestic violence, sexual assault, and other forms of violence to protect its female citizens from such abuse, enforcing these laws is extremely difficult. But with our app using the latest technology, it will become easier and more convenient to safeguard our women with this type of situation. Women who are victims of abuse are often denied basic human rights. The basic problem towards the women protection is with the police handling of these occurrences is that they are not always able to respond swiftly to distress calls. These limitations include not knowing the location of the crime and not knowing the crime is occurring at all: it is difficult for the victim to call the police confidently and quietly. To aid in the removal of these prohibitions. This app presents the Women's Safety Application, a smartphone app that provides a reliable way for women to let the closed ones know about them in an emergency or take some help in the unwanted situation. Secondly this, app is supportable of Hindi language along with English language that can be equally useful for those who understand little or no English at all.

LITERATURE REVIEW II.

As a part of literature survey, we investigated some applications of women safety that already exist in market. The aim is to observe how these applications work and to see how they can be improved and how are they different. To date it is identified that the following Android Apps of women security are good and are offering relatively similar service.



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[1] A Mobile Application for Women's Safety: WoSApp

Women's Safety App provides a secure way to get help from police. The user can easily and easily trigger function by shaking her phone, or by a simply clicking on a PANIC button on the screen. WoSApp has a direct tie-up with the local police, which can be extended as the area of use of the application expands.

[2] WOMENS SECURITY, Android App developed by AppSoftIndia, December 17, 2013

This app is developed by App Soft India. The app's main options are: Users should avoid wasting details. This information includes user email addresses and words, recipient email addresses and mobile versions, and text messages. The app is then loaded as a gizmo so that the recipient is notified as soon as the user touches the app. Another important feature of this app is that it records the surrounding voice for about 45 seconds and this recorded voice, a text message with the user's location coordinates is delivered to the recipient's mobile his variant.

[3] Abhaya: An Android App for the safety of women"

Abhaya, is an Android app for women's safety. This app activates when you need it with just one click. Send the location of the place via GPS with just one click on the app, send a message to the number registered with the location in URL format, or call the originally registered number in a dangerous situation. I can. A unique feature of this app is that it will continue to send SMS to the registered mobile number every 5 minutes until the stop button is clicked on the app. Continuous location information helps locate victims and help them to rescue them safely.

III. PROPOSED WORK

Many times, women are not able to inform anyone about the crime that creates problem in providing them security. This app presents the Women's Safety Application, a smartphone app that provides a reliable way for women to let the closed ones know about them in an emergency or take some help in the unwanted situation. Secondly this, app gives access of camera of user's phone to the loved ones so that they can monitor them while they are travelling alone. Whenever the user presses the panic key or the volume button for 4 seconds the app will be activated and the app will start its emergency service and will send alert message containing the user's name with the current location and 2 pics of front camera and 2 pics from rear camera to the registered contacts. The application also has a fake siren button that can play the siren audio on pressing and draw attention of attacker. This is innovative application that can provide a complete map to the user to reach safely her destination using GPS facility.

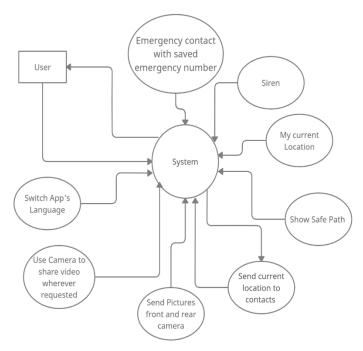


Figure 1: Data Flow Diagram.



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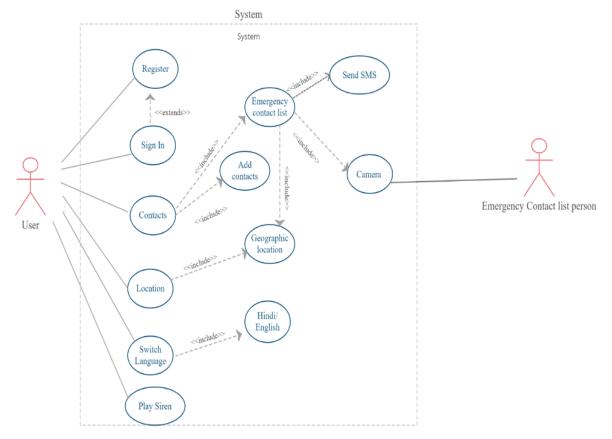


Figure 2: Use Case Diagram.

Description of modules are mentioned below:

A. Login/Register

This module required user to create an account on this application with proper authentication so that each user can be distinctly identified. It contains all the information about the authenticated person. It contains the process of verifying the identity of person by obtaining some sort of credentials and using those credentials always proceeds to authorization process.

B. Location

Location module help in telling the current location of user so that it can identify the place.

C. Safe path

In this module we use the GPS system to track the route and based on their safety score it suggests the further route until the user reaches its destination.

D. Play siren

Play siren module is used to play the audio of police's siren so that it can rectify the situation and may reduce the chances of crime.

E. Emergency Contacts

This module consists of list of contact details of user's loved ones which is manually saved by user during registration process. You can add or change the list of contacts and their information like Name, Id, phone number, address. This information is stored in database.

F. Take Image

In this module the application will work smartly. It will automatically take the image from front and rear camera of phone and send a link of this snapshots to the emergency contact numbers in case of emergency.

G. Switch Language

This module can switch the language of application which is by default in English language to Hindi language.



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IV. CONCLUSION

This research work plays an important role towards providing the fastest way of safety for women. The proposed methodology will help women in providing a supervision of their loved ones while she is alone on road or somewhere where she needs someone's company. An innovative idea to prevent the occurrence of rape, harassment, and other dangerous situations. The system helps maintain gender equality by providing a safe environment for women in society and allowing women to work late into the night. Anyone who commits her crimes against women will be warned and help reduce her crimes against women rate.

V. REFERENCES

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