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WOMEN SAFETY APP

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Abstract

Women Safety Security System-Alert All Chat Application In today's world, people using smart phones have increased rapidly and hence, a smart phone can be used efficiently for personal security or various other protection purposes. The heinous incident that outraged the entire nation have wake nus to go for the safety issues and so a host of new apps have been developed to provide security systems to women via their phones. This Android Application for the Safety of Women and this app can be activated this app by a single click, whenever need arises. A single click on this app identifies the location of place through GPS and sends a message comprising this location URL to the registered contacts and call on the first registered contact to help the one in dangerous situation.

Keywords— Android Application, Women Safety, java, Protection

I. INTRODUCTION

It is indeed a sad reality that women's safety has become a growing concern in today's fast-moving world. Women are increasing participating in all field and are competing with men. However, the rise in the number of crimes against women is a cause for alarm. It is essential to ensure women's safety whether they are at home, outside the home, outside the home, or in their workplace.

In the present scenario, women are keeping pace with men in every walk of life but unfortunately at cost of being subjected to abuse, harassment, violence in public and even at their own houses. They cannot step out of their houses at any time of the day, cannot wear clothes as per their will, nor can they even go for work in peace. There is some kind of inhibition that women are subjected to which not only takes away their sense of freedom but also shatters their confidence and dreams.

According to statistics, a significant number of women have suffered trauma in the last year. This has led to a loss of confidence among women, which is detrimental to their growth and development. The lack of a gender-friendly environment and infrastructure is one of the main reasons for safety concerns. Factors such as the consumption of alcohol and drugs in open areas, inadequate lighting, unsafe public toilets, sidewalks, and ineffective police service are some of the reasons for this problem.

Women security is a significant issue in India just as other isn't safe for ladies to travel forlorn at 12 PM or pondering an obscure spot. There ought to help hand for ladies since they are not physically solid as men. As this time cell phone can be the closest companion of client and client can remain in contact with their cherished one whenever. Anyone needs to make a call or communicate something specific in crisis at whenever from anywhere.

We introduce an app which ensures the safety of women. This helps to identify SMS resources to help the one out of dangerous situations. This reduces risk and brings assistance when we need it and helps us to identify the location of the one in danger. The Android SDK gives the instruments and APIs used to create applications on the Android stage utilizing the java programming language. Ladies in crisis use voice-based contact list, they can work the application through voice and make the call when

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required. It permits sending short instant messages between cell phone gadgets. Voice acknowledgement is the fundamental procedure of this application.

It is alarming that a significant percentage of women have no faith in the police ability to curd harassment cases. Therefore, there is an urgent need to understand and solve this problem. To ensure that women's safety, it is essential to have a comprehensive approach.

II. LITERATURE SURVEY

The study by Abhijeet Singh et al.[1] aim in "Woman Safety Application – MwithU" is to reduce gender-based violence (or violence against women), including women's fear of crime. It is basically a web based technology so the system requirement is very low for the application. And as the main data exchange will be happening mostly through geolocation API so low network speed will also work. MwithU's requirement for functioning is kept to be low as that it can be used in almost all the parts of the world with low end devices and weak internet connections. We at start are mainly focusing on two types of application.

The study by Srinivas et al. [2] "Android App for Women Safety". This app is developed by AppSoftIndia. The key features of the app are the user has to save some details. These details include the Email address and password of the user, Email address and mobile number of the recipient and a text message. Then, the app is loaded as a "widget", so that when the user touches the app, it alerts the recipient. Another key feature of app is that it records the voice of surroundings for about 45 seconds, and this recorded voice, text message containing location coordinates of the user is sent to the recipient mobile number.

Manisha Sharma et al. [3] "An Android Based Women Safety App". This android application. Which will alert the nearby people who having this application by sending alert messages to them and alert sound in the guardian mobile on shaking of victim mobile. Also sends messages and alert sound to the saved contacts in the application and police station. Which also show the location of the victim with the help of GPS tracker system. Which also makes sound in guardian mobile when his/her mobile in silent mode. In this app we can also add as many contacts as we can.

Dhruv Chand et al. [4] "A Mobile Application for Women's Safety: WoSApp". This mobile application known as WoSApp (Women's Safety App) that gives ladies with a reliable thanks to place associate emergency decision to the police. The user will quickly and discreetly trigger the vocation perform by shaking her phone or by expressly interacting with the application's program via a straightforward press of a push button on the screen. A message containing the geographical location of the user, additionally as contact details of a pre-selected list of emergency contacts, is instantly sent to the police. This paper describes the applying, its development, and its technical implementation.

III. DESIGN AND IMPLEMENTATION

This system uses native type of Mobile Application. At the backend SQL is used as a database for storage of information. The proposed layout shown in Fig.1 shows the direct functioning of the android app. The database information such as the user's relative's information, registered contacts, and registered email. Location links are sent to the registered user contact in the database.

This android application is useful when the user is in Some problem or needs any help. When the user opens this application, can see a registration of user. When a user creates the profile then the main activity of application will be visible. There are four modules which we have added in application for the safety purposes of the user.



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Fig1.1.Login Successfully

Upon installation of the application, we can see a shortcut of the application on the device home screen. After opening the application the user first needs to .create an account by completing the registration process. Once the registration process is completed, we come upon the Home Page. Here the user can see all the features offered by our app and can use them according to the situation requirements.



Fig.2. Show Safest Route

A safest route provides information about the safest way to reach a destination. Using this information, the safest route module calculates the secure path to reach the destination. The module may also provide alternative routes that are slightly longer but safer, giving the user the option to choose the best route based on their preferences.

The safest route module considers various factors that can affect safety, such as:

- 1. Traffic: It helps you to avoid traffic.
- 2. Proximity to emergency services: It considers the proximity of emergency services, such as police stations, hospitals, and fire stations.



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3. Route suggestions: The module could provide route suggestions based on factors such as well-lit areas, high foot traffic areas, , and safe neighborhood's. The app could also suggest alternate routes if the user encounters an unsafe situation

The safest route module in a women safety app is designed to provide users with a sense of security and peace of mind when traveling alone or in unfamiliar areas.



Fig.3.1.Capture and Police Station



Fig.3.2. Back Camera

The use of a back camera module in a women safety app can be helpful in certain situations. For example, if a woman is walking alone at night and feels unsafe, she can activate the back camera module to record any potential threats or dangerous situations. This can provide valuable evidence to law enforcement if something were to happen. This captured photo is automatically sent by mail to the emergency contact person.



Fig.4.1.Search police Station



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Fig.4.2. Show Details

women safety app uses the user's location to suggest nearest police station to the user. This app provides details about the police stations such as name, address, contact number, and hours of operation.



Fig.5.Registration

A registration module is an important component of a women safety app that allows users to create an account and access the app's features. The registration module typically includes the following fields:

- 1. Username: This field allows the user to create a unique username that they will use to log in to the app. It is important that usernames are unique to prevent any confusion or errors when users try to log in.
- 2. Email: This field requires the user to enter their email address. The email address is important as it allows the app to send notifications and updates to the user.
- 3. Contact: This field requires the user to enter their contact information, such as their phone number or emergency contact details. This information is crucial in case of an emergency, and it can be used by the app to notify authorities or contacts in the event of an emergency.
- 4. Password: This field requires the user to enter a secure password that they will use to log in to the app. It is important that passwords are strong and secure to prevent unauthorized access to the user's account and personal information.

IV. CONCLUSION AND FUTURE SCOPE

Unfortunately, the safety of women is in doubt and security is not concerned. Many headlines still coming across against women indicates that increasing trends of such sexual assault rapes still happening in today's generation. Around 80 percent of women are losing confidence and be afraid of the realization of freedom. So, we are trying to contribute little efforts towards women which will ensure the safety and respect for women so that she canal so have the right to grow equally like men. This mobile application is very much helpful for anyone. This application will help the user by scanning the QR code which will be nothing but she can attach the vehicle detail send through GPS the current address will be fetched and send it to any contact depending on the user. Here the user can take precautions before coming to the actual danger. It is to let every women is now safe to travel alone as someone is getting their updated location and also has vehicle information. For the future, we have in mind to extend this app where she can also contact nearby police patrolling vans in case of need.



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This project that I have made is small scale but has a large development scope and I look further to the day it can be extended and used by all common people so in totality this project is an initiative taken by the youth community to contribute to the betterment of the society in whatever way we can.

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