

A Modern Approach to Handling Women Safety Using Android App System

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ABSTRACT

The usage of smart phones equipped with GPS navigation unit have increased rapidly from 3% to more than 20% in the past five years. Hence, a smart phone can be used efficiently for personal safety or various other protection purposes especially for women. This app can be activated by a single click when the user feels she is in danger. This application communicates the user's location to the registered contacts for every few seconds in the form of message. Thus, it acts like a sentinel following behind the person till the user feels she is safe. This paper presents analysis a unique feature of this application to send the message to the registered contacts continuously till they are pressing 'PANIC' button. Continuous location tracking information via SMS helps to find the location of the victim quickly and can be rescued safely. This application aims to ensure women safety. This is achieved by addressing the circumstances that compromise the safety of women in today's day and age. This app ensures women are not put into such situations through various features offered by our system.

Keywords : Android, safety, GPS, location, alert

I. INTRODUCTION

In today's world, women's safety has become a major concern, with reports of violence and harassment against women being reported on a daily basis. Women are often afraid to go out alone or travel to unfamiliar places, and their safety can be compromised in various ways, including physical assault, sexual harassment, and stalking. To address these concerns, technology can play a significant role in improving women's safety. In recent years, mobile applications have emerged as a popular tool for addressing women's safety concerns.

These apps can be used by women to alert authorities or family members in case of emergencies, track their location, and access self-defence tips, among other features. One such app is the women's safety android app, which is designed specifically for women to help them feel safer and more secure in their daily lives.

The women's safety android app provides various features and functionality to enhance women's safety. For example, it allows users to send out an emergency alert to pre-selected contacts, including the user's location, in case of an emergency. The app also includes a panic button that can be activated in case of

danger, which sends out an alert to the user's emergency contacts, as well as to the nearest police station. In addition, the app includes a feature for tracking the user's location, which can help authorities locate the user in case of an emergency.

Another key feature of the women's safety android app is self-defence tips, which can be accessed easily and quickly. The app includes videos and guides on self-defence techniques, which can be useful for women who are traveling alone or in unfamiliar places. The app also provides information on nearby safe locations, such as police stations and hospitals.

The effectiveness of the women's safety android app has been evaluated based on user feedback and reviews. Many users have reported feeling safer and more secure while using the app. The app has also been praised for its user-friendly interface and ease of use. However, there are some challenges and limitations to the app, such as the need for a stable internet connection and the potential for false alarms.

In conclusion, the women's safety android app has the potential to make a positive impact on women's safety by providing them with a tool to help them feel safer and more secure in their daily lives. The app's features and functionality, including emergency alerts, location tracking, and self-defence tips, can help women in times of danger or distress. However, further development and improvement are necessary to address the challenges and limitations of the app and ensure its effectiveness in improving women's safety.

II. PURPOSE OF THE PROJECT

The purpose of a women's safety android app is to provide women with a tool to help them feel safer and more secure in their daily lives. The app is designed to offer a range of features that can be accessed easily and quickly, including emergency alerts, location tracking, and self-defence tips.

The scope of a women's safety android app can vary depending on its specific features and functionality.

Generally, the app is designed to provide women with a tool to help them feel safer and more secure in public spaces. This can include features such as a panic button that can be activated in case of danger, a GPS tracker to locate the user in case of emergency, and information on nearby safe locations such as hospitals or police stations. The app can also provide self-defence tips, such as videos and guides on self-defence techniques, which can be useful for women who are traveling alone or in unfamiliar places.

In addition to its practical applications, a women's safety android app can also have a broader impact on women's safety. By providing women with a tool to report incidents of violence or harassment, the app can help to raise awareness of the prevalence of such incidents and encourage authorities to take action to address them. The app can also serve as a means of connecting women with support networks, such as local women's organizations or helplines, which can provide assistance and advice in times of need.

III. EXISTING METHODOLOGY

1. Law enforcement: Governments have taken measures to improve the law enforcement system and have increased the punishment for crimes against women.
2. Emergency helplines: Many countries have set up emergency helplines that women can call in case of emergency.
3. Public transportation: In some countries, women-only public transportation services have been introduced to reduce the risk of sexual harassment and assault.
4. Self-defence training: Some organizations provide self-defence training to women to empower them and help them defend themselves in case of an attack.
5. Technology-based solutions: Many apps and devices have been developed to help women stay safe, such as safety alarms, GPS trackers, and panic buttons.
6. Community watch groups: In some areas, community watch groups have been formed to

monitor the safety of women and report any suspicious activity to the authorities.

IV. PROPOSED METHODOLOGY:

A proposed system for women's safety using a React Native app could include several features designed to ensure the safety of women in different situations. Some potential features could include:

In this proposed system, the user writes the message content and also selects the contacts to which the message has to be sent and save it. So, when he is in some danger by just opening the app and pressing the PANIC button, the message stored will be sent to those numbers he has added in this application. So that he can receive the help in correct time.

A proposed system for women's safety using a React Native app could include several features designed to ensure the safety of women in different situations. Some potential features could include:

1. Emergency Contact: The app could have an emergency contact feature that allows users to quickly call or message a designated contact in case of an emergency.
2. Location Sharing: The app could allow users to share their location with their emergency contacts, so they can track the user's movements and be alerted if they go off course or enter an unsafe area.
3. Panic Button: The app could have a panic button feature that triggers an emergency alert to the user's emergency contacts with their location information.
4. Safety Tips: Overall, the proposed system could provide a comprehensive safety net for women, with features designed to help them stay safe in different situations and provide a sense of security and peace of mind.

V. APPLICATIONS

Women's safety android apps have a wide range of applications, including:

1. Personal safety: Women's safety android apps can be used by women to enhance their personal safety when

they are walking alone or in any dangerous situation. The app can provide users with quick and easy access to emergency services, location tracking, and self-defence tips.

2. Campus safety: This app can provide students with a way to report incidents and access emergency services, as well as track their location and receive safety alerts in emergency.

3. Workplace safety: Women's safety android apps can also be used in the workplace to promote safety and prevent incidents of violence or harassment.

4. Public transportation safety: This app can provide users with real-time information about transportation schedules and routes, as well as help them navigate unfamiliar areas and report incidents of harassment.

Community safety: App promote community safety by allowing users to report incidents and track potential danger in their area.

VI. SCOPE FOR FUTURE DEVELOPMENT:

Some potential areas for development and improvement include:

1. Artificial intelligence: Artificial intelligence (AI) could be used to improve the accuracy and effectiveness of women's safety android apps. For example, AI could be used to analyse patterns of violence and harassment to predict and prevent incidents before they occur.

2. Wearable technology: Wearable technology, such as smart watches or jewellery, could be integrated with women's safety android apps to provide discreet and convenient access to safety features.

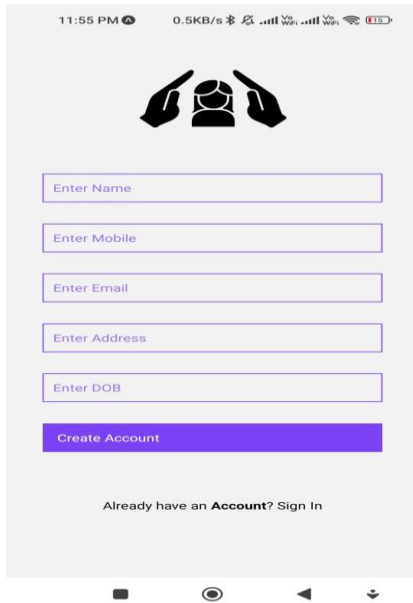
3. Offline functionality: To address the challenge of poor internet connectivity, women's safety android apps could be developed with offline functionality, allowing users to access essential features even when they are not connected to the internet.

4. Multilingual support: To ensure that women's safety android apps are accessible to women of all backgrounds, they could be developed with

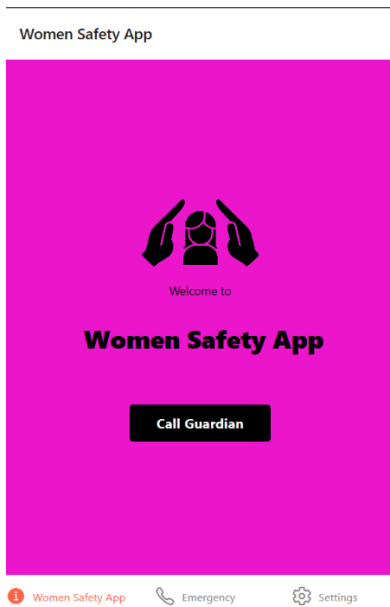
multilingual support, allowing users to access the app in their preferred language.

VII. RESULT

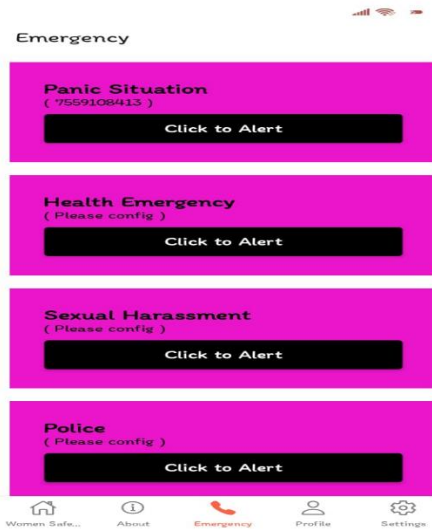
7.1 LOGIN PAGE



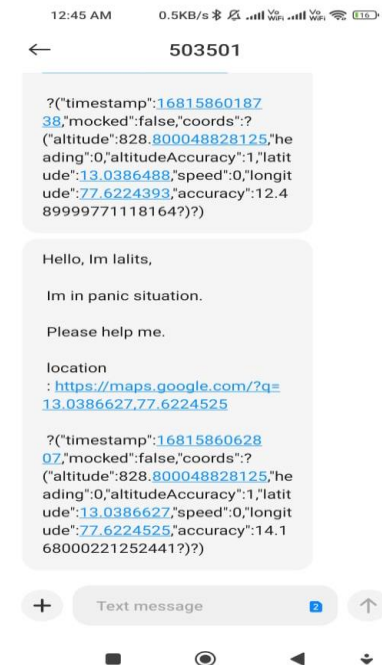
7.2 CALL GUARDIAN PAGE



7.3 EMERGENCY MESSAGE PAGE



7.4 ADD EMERGENCY CONTACT



7.5 MESSEGE SENT TO EMERGENCY CONTACT WITH CURRENT LOCATION

The above pictures are the features and application of the women safety android app.

VIII. CONCLUSION

The development of women's safety android apps is a step in the right direction towards improving women's safety in public spaces. These apps have the potential to provide women with a sense of security by allowing

them to alert authorities or family members in case of emergencies, track their location, and access self-defence tips.

However, there are also challenges and limitations associated with these apps, such as the need for a stable internet connection and the potential for false alarms. To ensure that women's safety android apps are effective in improving women's safety, it is important to continue to develop and refine these apps through research and user feedback. Additionally, it is essential to address the root causes of violence against women through comprehensive policy and legal reforms, education and awareness-raising campaigns, and the provision of support services for survivors.

Overall, women's safety android apps are a promising tool for addressing women's safety concerns, but they should be seen as part of a broader strategy to end violence against women and create safer communities for all.

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