

WOMEN'S SECURITY BASED ON MOBILE APPLICATION

¹Harish Bhabad, ²Kalyani Pawar, ³Perna Aher, ⁴Vishvesh Katkade
(Computer Engineering, Savitaribai Phule Pune University, LoGMIEER, Nashik)

Abstract:

In recent years, women's safety has become one of the most pressing issues worldwide. With the increasing penetration of mobile technology, mobile applications have become a promising means of solving these problems. This paper aims to explore the role of mobile apps in enhancing women's safety. This study begins by reviewing the existing literature on women's safety and the role of technology in combating gender-based violence and harassment. It identifies the limitations of traditional security measures and highlights the potential of mobile apps to provide women with tools for self-defense and immediate assistance. In this paper comprehensive framework for developing secure applications aimed at women. It covers various aspects including location tracking, emergency alerts and communication features, with a focus on usability, reliability and privacy. It also highlights the importance of user-centered design and rigorous testing methodologies to ensure the effectiveness of these applications.

Keywords — Woman Security, GPS Location, emergency alerts, self defence.

I INTRODUCTION

Women's safety is a growing concern in many countries. According to the World Health Organization (WHO), one-third of women worldwide have experienced physical or sexual violence at least once in their lifetime. Mobile apps have been developed to help women stay safe in a variety of situations. These apps provide many features such as an emergency button, tracking, self-protection and reporting. Mobile apps can be useful tools to keep women safe. However, it should be noted that this is not a substitute for other safety measures such as being aware of the environment and taking precautions to avoid dangerous situations. This article presents a mobile application for women's safety. This white paper describes the capabilities, performance, and challenges of these applications. This white paper also discusses the potential of mobile apps to improve women's safety.

II RELATED WORK

This article presents research on safe mobile app development for women. This article discusses the features, benefits, and challenges of these apps. The document also discusses the potential of mobile apps to increase women's safety.

III PROPOSED SYSTEM

In this proposed system, users select and save the contents of the message and the contact to send the message to. So when he is in danger, he just needs to open the application and press the HELP button, and the saved message will be sent to the number he added to this application. So you can get timely help.

ADVANTAGES

- The exact time the alert was triggered. Send log latitude with your location (with map link) and live image link, ideal address.
- Women can get immediate help from the police, friends or family in an emergency. This is especially important in situations where women are being attacked or harassed.
- Many female safety apps allow users to share their location with friends and family. This way someone always knows where the woman is and can help if needed.

MODULES

- **Help Button**
What is useful to users when they encounter problems or need help? When users open this app, they will see a HELP button. Then send an SMS to the registered contact.
- **Adding Contact**
Use this module Add emergency contacts and save them to add your contacts.
- **Messages**
Keep messages about dangerous situations. This is for emergencies.

IV FEATURE OF THE PROJECT

Cell Viewer provides several features to reduce the user's effort and solve the problems inherent in the small screen of mobile phones.

- Different operating modes: "View Only" and "Full Control".
- Different display modes: "Windowed", "Full Screen" and "Reduced".
- It supports high screen resolution and color depth.

As shown in the figure below, the proposed architecture shows the precise control flow of an Android application.

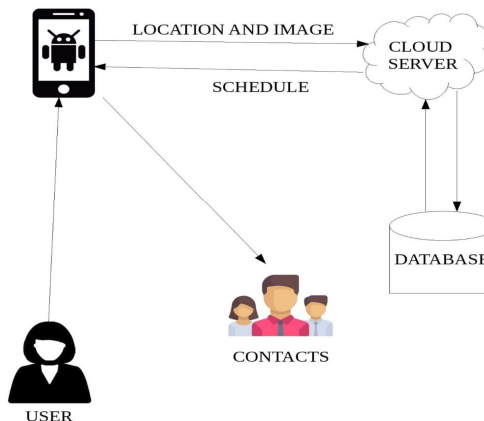


Fig.1. Architecture

V RESULTS

The mentioned test results are provided with screenshots taken at various intervals on the root device and the contact device.

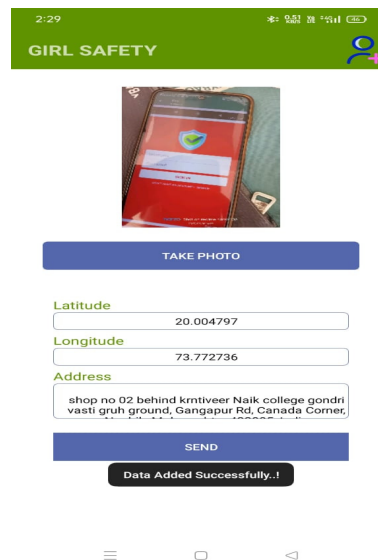


Fig.2. User window

In this fig.2., You can view information such as latitude, longitude, address, sending options, as well as photos taken by users.

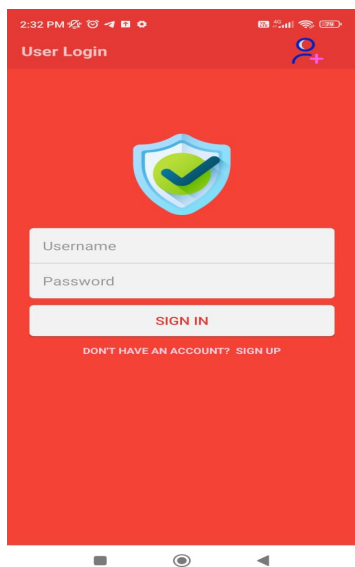


Fig.3. Admin Login

In this fig 3., login screen is displayed with admin user name and password fields and option to login or register new user.

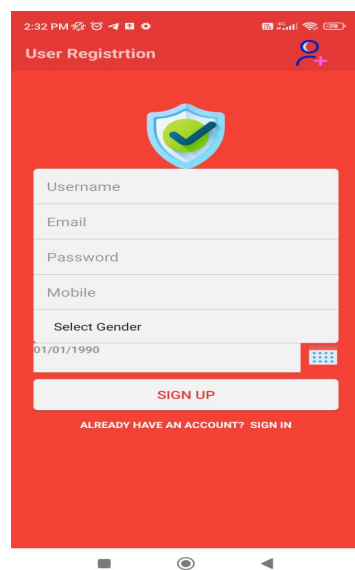


Fig.4.Admin SingUp

Here, fig.4. you can enter information in the fields provided for the new admin registration process, including username, email address, password, mobile phone number, gender selection, date of birth and a register button. A login link is available if the user already has an account.



Fig.5.User Msg Report

In this fig.5. shows a report of messages sent by users in a manager account, including information such as addresses and the ability to view locations with links to Google Maps. You can also view the pictures by clicking on the image link provided.

Fig.6. ,Here you can see that users can also send a message to their emergency contact. This received message contains a link that redirects to the user's location and image, or redirects to a view in the app.

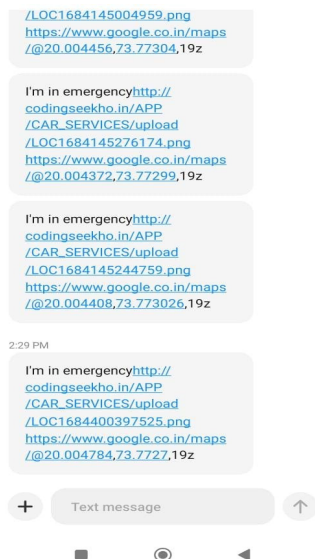


Fig.6.Emergency Contact’s Received Message

VI CONCLUSION

In this paper, the Women's Safety Project, based on a mobile application, has successfully met the urgent need for enhanced security measures. The developed application shows excellent usability, providing ease of use to individuals. With 24/7 availability, users can expect uninterrupted access to its features. Offering applications as free solutions also underscores the desire for broad availability and inclusion. Overall, the project makes a significant contribution to the empowerment of women by using mobile technology to keep them safe and protected.

VII REFERENCES

[1].
Dr. Sridhar Mandapati, Sravya Pamidi, Sriharitha Ambati, “IA Mobile Based Women Safety Application (I Safe Apps)”, IOSR Journal of Computer Engineering (IOSR-JCE) e-ISSN: 2278-0661,p-ISSN: 2278-8727, Volume 17, Issue 1, Ver. I (Jan – Feb. 2015), PP 29-34

[2].
S.Sangeetha, P.Radhika PG Scholar, “Application for Women Safety”, IOSR Journal of Computer Engineering (IOSR-JCE) e-ISSN: 2278-0661,p-ISSN: 2278-8727, Volume 17, Issue 3, Ver. IV (May – Jun. 2015), PP 01-04

[3].
“A WOMEN SECURE MOBILE APP FOR EMERGENCY USAGE (GO SAFE APP)”, Divya S, Vinitha M, Logeshwari B, Indumathi P, IJRET-Mar-2016, Available @ <http://www.ijret.org>

[4].
Dr. K Srinivas, Dr. Suwarna Gothane, C. Saisha Krithika, Anshika, T. Susmitha , “Android App for Women Safety”, Dr. K Srinivas et al Int. J. Sci. Res. Comput. Sci. Eng. Inf. Technol, May-June - 2021, 7

[5].
“An Android Based Women Safety App”, Manisha Sharma, Akhil Bansal, Akansha Sharma, Anisha Verma, Prof. Vinay Singh (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 10 Issue V May 2022- Available at www.ijraset.com

[6].
Westmarland N., Hardey M. (2013). Protecting women’s safety? The use of smartphone ‘apps’ in relation to domestic and sexual violence, Durham University,urham centre for research into violence and abuse.