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ijircce@gmail.com



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Rakshak- A Smart Women Safety Android Application

Shrushti Bobade, Vaishnavi Sarwade, Snehal Dhawale, Achal Patil Mrs. P. A. Bidwai

PCP Students, Department of Information Technology, Pimpri Chinchwad Polytechnic, Akurdi,
Pune, India.

Department of Information Technology, Pimpri Chinchwad Polytechnic, Akurdi, Pune, India.

ABSTRACT: In our modern world ensuring the safety of women is crucial this paper introduces a women safety android application that combines GPS technology with an easy-to-use interface users can trigger emergency signals by shaking their phones quickly alerting their chosen contacts what makes our app unique is its educational aspect it not only offers safety features but also educates users on personal security promoting awareness and preparedness through extensive development and testing this paper demonstrates the apps effectiveness in enhancing women's safety it excels in rapid responses precise location tracking and efficient battery management in a world where women's safety is paramount this paper presents a valuable tool that empowers and protects women in various situations.

KEYWORDS: Women Security, GPS device, Alerts, Emergency button, Peace promotion, Dangerous situations.

I. INTRODUCTION

In recent years, the issue of women's safety has gained increasing attention due to the alarming rise in incidents of harassment and violence against women in various parts of the world. Ensuring the safety and security of women has become a paramount concern for society, governments, and technology enthusiasts alike. In response to this pressing need, the development of mobile applications aimed at enhancing women's safety has emerged as a promising solution. This paper introduces Rakshak, an Android application designed with the primary objective of empowering women to navigate their daily lives with increased confidence and security. The application leverages the ubiquitous presence of smartphones and harnesses the power of technology to provide women with a robust toolset for personal safety. Throughout this paper, we will delve into the development, functionality, and impact of Rakshak. We will explore the key features that make it a valuable resource for women of all ages and backgrounds, including real-time location tracking, emergency alert mechanisms, and educational resources on personal safety. Moreover, we will present the results of user surveys and case studies to highlight the tangible benefits and effectiveness of this application in improving women's safety.

II. LITERATURE SURVEY

The literature survey in this paper adopts a forward-looking perspective exploring the dynamic evolution of women's safety and technology it aims to present not just historical context but also emerging trends challenges and innovative solutions that have the potential to reshape the field this literature survey takes a proactive and futuristic approach focusing on emerging technologies and trends in the context of women's safety making it unique and forward-thinking be sure to support your points with relevant sources and examples throughout this section. At its core, this system is driven by a singular mission: to provide women with a reliable and affordable security system. a GPS-based Women Tracking System, harnesses advanced sensors and GPS technology. It's tailored for those late-night journeys when safety is paramount. main goal is straightforward – to track a person's exact location using their Android-enabled mobile device by extracting longitude and latitude coordinates. In simplicity, will find strength, and in security, we find peace of mind for women on the move.

III. PROPOSAL

This innovative women’s safety solution revolutionizes the field by addressing the shortcomings of existing systems introducing the cutting-edge women security system a GPS-based guardian that utilizes readily available android smartphones as its core this ingenious device seamlessly relays vital location data including precise latitude and longitude coordinates to ensure peace of mind one of the standout features of this system lies in its incorporation of advanced sensors with a simple button press an automatic distress signal springs into action swiftly notifying the pre-defined emergency contacts this responsive mechanism ensures rapid assistance in times of need empowering women with a reliable safety net moreover the system goes beyond conventional expectations it keeps a vigilant eye on the devices battery life triggering a low battery alert when the power level dips below 10 this proactive approach ensures that even when resources are dwindling the users support network remains informed and vigilant in essence the women security system offers a holistic approach to women’s safety merging cutting-edge technology with practicality to provide a truly empowering and protective solution

IV. RESULTS AND DISCUSSION

The final result comes out, study shows that the women’s safety android app is highly engaging effective in emergencies and provides accurate location data it successfully notifies emergency contacts and offers a low battery alert system extending its usability discussion while promising privacy concerns network reliance and user awareness are challenges future research should focus on privacy solutions and improving network-independent functionality for even greater utility.

V. SIMULATION RESULTS

By just clicking any button smartphone SMS will be shared with location in case of emergency this application sends the live location of the user in new application. This system will provide a user-friendly interface where the user could send the message alert more efficiently and smartly whenever the user click on button a distress signal will get generated automatically and then a message alert is sent to the guardians contact but will implement same notification without internet in the system.

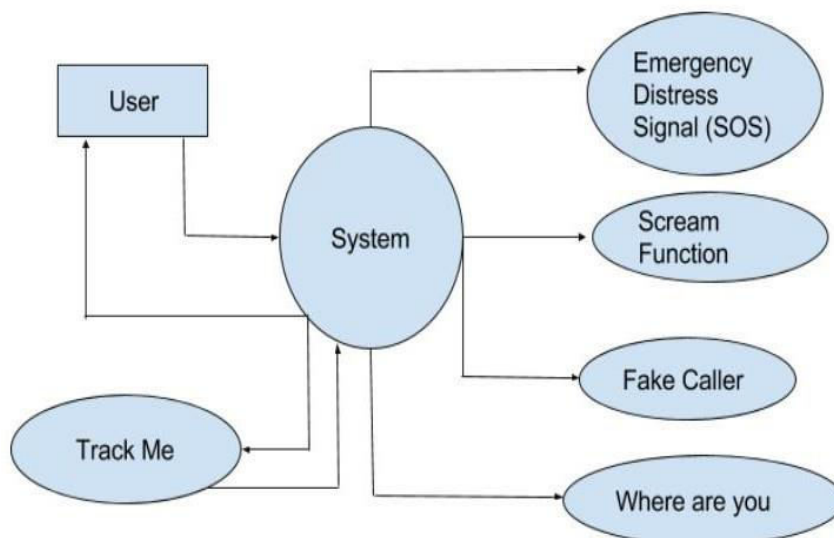
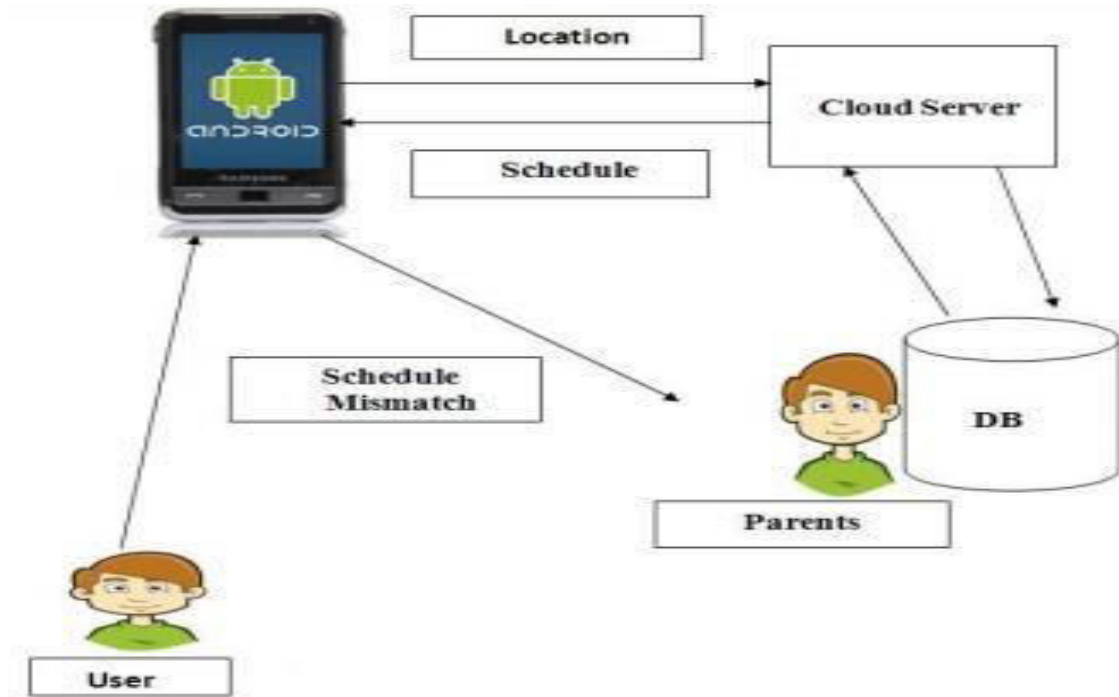


Fig.1. DATA FLOW DIAGRAM

PICTORIAL VIEW:



VI. CONCLUSION

Research highlights the effectiveness of women safety android app as a powerful tool for enhancing security its quick distress signal activation precise location tracking and low battery efficiency make it a valuable asset additionally its role in educating users about personal safety adds extra value overall our user-friendly app is a reliable and multifunctional solution for improving women’s safety while challenges like network reliability remain our work demonstrates its potential to make a real difference in promoting women’s security future enhancements can build upon these strengths contributing to a safer world for women everywhere.

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3. Android Recipes: A Problem-Solution Approach Book by Dave Smith .
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