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Review Article

SafeHer App: Empowering Women with Accessible Safety Tools and Resources

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Abstract: The "SafeHer" application is designed to empower women by equipping them with indispensable tools for personal safety. These include one-tap emergency alerts, GPS tracking, live location sharing, siren activation, voice recording, helpline integration, and an innovative feature that allows users to shake their phone to automatically share their live location every 30 seconds. Additionally, the app enables reporting of unsafe areas, accessing local emergency resources, and fostering connections with nearby women for mutual safety. The application aspires to mitigate risks of violence, cultivate a supportive community, and fortify women's confidence and well-being. By leveraging this platform, women can not only access safety resources more effectively but also establish direct connections with safety service providers. This can be emphatically asserted to prompt structural reforms within the safety support ecosystem, thereby amplifying women's security within society. The study underscores the critical role of mobile technology in addressing pervasive safety challenges faced by women. These challenges include limited accessibility to assistance and inadequate awareness of available resources. To address these vulnerabilities, the application integrates an array of safety-centric features and facilitates direct interaction with safety services.

Keywords: Empower, Live Location, Safety, Inadequate, Vulnerabilities, Pervasive, Security, Prompt Structure, Emphatically

1. Introduction

The safety and empowerment of women in contemporary society is a pressing concern. With the rapid advancements in digital technology, innovative solutions can bridge the gap between individuals and safety services. Mobile applications, in particular, have shown promise in enhancing communication, providing real-time assistance, and increasing accessibility to safety resources. Despite existing safety provisions, a significant gap remains in timely help-seeking and effective communication, especially during emergencies. Many women still rely heavily on social networks and community assistance, often compromising response time and effectiveness in intense circumstances. Several studies emphasize the role of digital technologies in improving access to safety services and fostering community engagement [1].

Research on women's safety highlights the critical role of digital solutions in addressing security concerns. Recent advancements in mobile applications demonstrate potential for real-time location tracking, emergency alerts, and community-based support systems. Despite these developments, gaps persist in timely help-seeking, awareness of available services, and efficient communication channels [2].

This research proposes the SafeHer App, a mobile application designed to empower women by providing tools and resources to ensure their safety. By addressing issues such as real-time location sharing, emergency alerts, access to local support services, and enhanced communication channels, the app aims to act as an informational bridge between women and service providers. The study seeks to reduce the risk of violence, foster community support, and promote confidence and well-being among women.

Section 1 contains introduces the study and its background, Section 2 contains reviews related work and identifies gaps in existing safety solutions, Section 3 contain discusses various measures to address these gaps, Section 4 contain outlines the proposed app architecture and essential steps in its development, section 5 contains explains the methodology using a flowchart, Section 6 contains presents the results and discussion, Section 7 contain the recommendation of SafeHer App and Section 8 concludes research work with future directions.

2. Literature Review

1. 112 INDIA: MHA, GOV OF INDIA
This application is an essential service of Emergency Response Support System, a Government of India initiative.

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The application is being used in over all states in India. The App will send emergency alerts with the user's details for precaution of user (name, age, emergency contact and etc..) with feature of location information, along with a generated call to emergency helpline number which is available in app 112' - to the State Emergency process. Time Off Manager Control Room and the person's emergency contacts. The system forwards the emergency alert to nearby online local citizen The 112-emergency helpline, launched by the Ministry of Home Affairs (MHA) in India, serves as a single-point contact for all emergency services, including police, fire, and medical assistance. This initiative aims to streamline emergency responses, ensuring that citizens can access timely help across various situations and make women independent the 112 India app serves as a crucial digital platform for emergency response, enhancing the efficiency of emergency services across the country. Rooted in global best practices, the app integrates features such as GPS location tracking, emergency alerts, and direct communication with police, fire, and medical services. Research highlights the importance of user-friendly interfaces and accessibility to ensure broad adoption among diverse demographics. Studies suggest that mobile applications can significantly reduce response times, especially in urban areas, where traditional communication methods may falter [1].

2. Women Safety App*:*

SAUTHRIKA TECHNOLOGIES & INFRAPRIVATE LIMITED

The Women Safety App by Sauthrika Technologies & Infra Private Limited is part of the growing trend of mobile applications aimed at addressing the issue of women's safety. These apps typically provide users with essential safety features like real-time location tracking, SOS emergency alerts, and quick access to designated contacts or local authorities in times of distress. The literature surrounding women's safety apps emphasizes their significance in the context of rising concerns about violence Harassment, and abuse faced by women globally. It approaches aligns with industry standards by focusing on user-friendly interfaces, rapid response and the mechanisms, and leveraging GPS technology to ensure accurate location data during emergencies. Central to most women safety apps, including the one by Sauthrika Technologies, is the ability to track a user's location in real time, the SOS feature enables users to send a distress signal to emergency contacts or authorities with one click Sauthrika Technologies & Infra Private Limited has developed a women safety app aimed at addressing the increasing concerns surrounding women's safety in urban and rural areas. This app integrates various features such as real- time location tracking, emergency alerts, and a direct connection to local law enforcement agencies. By leveraging technology [2].

3. I'M SAFE: Women Safety App

The I'M SAFE Women Safety App is part of a growing category of mobile applications designed to address the critical issue of women's safety in public and private spaces. As highlighted in existing literature, the development of such apps responds to the increasing concerns about harassment, violence, and abuse faced by women globally. These apps typically provide key features such as real-time GPS tracking, one-click SOS alerts, and quick access to emergency contacts or authorities. The ability to send alerts quickly essential, and many apps incorporate features like simple button press or voice activation for emergency communication and more The. Existing literature emphasizes the increasing reliance on personal safety apps as critical tools for women, highlighting their features such as real-time location sharing and emergency contact alerts (Bard & Tuck, 2020). Research indicates that these applications can empower users, fostering a sense of security and preparedness (Jones et al., 2021). However, the effectiveness of such tools in reducing incidents of violence remains complex, suggesting that they should be integrated with community awareness and education initiatives for a more comprehensive safety strategy (Thompson & Hargreaves, 2023) User experience and privacy concerns are significant factors influencing the success of safety apps like I'M SAFE. Studies emphasize the necessity for intuitive interfaces and robust privacy measures to build user trust and ensure effective use during critical moments [3].

4. Personal Safety

The development of personal safety apps traces back to growing concerns over personal security in various contexts such as urban environments, travel, and situations of harassment or violence. Early versions of these apps were limited to basic SMS alert systems, but over time, they have integrated advanced technologies like GPS, voice commands, and cloud-based emergency alert systems. Research highlights the increasing importance of technology to create comprehensive and effective safety solutions. Personal safety Apps have emerged as critical tools for enhancing individual security, offering features like emergency alerts, GPS tracking, and access to safety resources. Research indicates that these apps can significantly improve users' perceived safety and promote safer behaviours, particularly among vulnerable populations such as women and students. However, challenges such as privacy concerns, technology accessibility, and the potential for users to become overly reliant on these digital solutions persist. To maximize their effectiveness, future development should focus on better integration with local emergency services, user education, and creating intuitive interfaces that address diverse community needs. However, some studies highlight concerns regarding data privacy, as these apps often require access to sensitive information like the user's location, contacts, and audio recordings. Privacy risks are compounded if the app lacks secure data storage or encryption measures, which may expose users to potential data breaches or unauthorized tracking. Researchers have recommended adopting strict privacy policies to user data [4].

5. SHESafe: Society for cyberabad society council

The SHE Safe app, developed by the Society for Cyberabad Security Council (SCSC), is an initiative aimed at enhancing women's safety in the Cyberabad region of Hyderabad, India. This app is part of a broader effort by

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law enforcement and civic organizations to use technology to address issues of harassment, abuse, and violence faced by women in urban spaces. As women's safety apps become increasingly common, *SHE Safe* stands out for its focus on real-time assistance, integration with police services, and community- driven safety measures. The program focuses on addressing issues such as harassment, gender-based violence, and personal safety through a multi-faceted approach. It combines community engagement, awareness campaigns, and collaboration with law enforcement agencies to create a safer environment. By fostering a sense of empowerment among women, SHESafe not only promotes their rights but also encourages community members to take an active role in ensuring safety. It combines digital solutions with on-ground support to address challenges like harassment, lack of timely help, and safety during transit. The initiative includes mobile applications for real-time location tracking, emergency alerts, and quick access to helpline numbers, empowering women to seek immediate assistance. The literature surrounding SHESafe highlights the effectiveness of community-led initiatives in improving women's safety. Studies indicate that such programs lead to increased reporting of incidents, greater awareness of legal rights, and the establishment of supportive networks among women. Moreover, SHESafe's integration of technology, such as mobile apps for reporting incidents and accessing resources, has been recognized as a significant advancement in real-time safety measures. Overall, SHESafe serves as a model for other regions seeking to implement similar programs aimed at empowering women and fostering a safer society [5].

6. Abhivyakti

The Abhivyakti app is a precautional safety app that issues related to women's safety and empowerment for them. With an increasing number of women facing harassment and violence, both in public and private spaces, digital tools like *Abhivyakti* are designed to provide a platform for women to express themselves and report unsafe situations. The app also seeks to foster a supportive community and raise awareness on gender-based violence This literature review explores the significance of such apps in promoting safety, their features, and the challenges surrounding their effectiveness and adoption. Issue of gender-based violence. Women safety apps have become critical in regions where formal may be for the underdeveloped or inaccessible. These apps act as technological interventions to provide immediate help, build communities, and allow women to share their stories. Includes the emergency alert system which may help us. Literature supports the importance of real-time communication during dangerous situations. The Abhivytkti app is designed to enhance communication and awareness surrounding mental health issues, providing a platform for users to connect, share experiences, and access resources. With features such as peer support groups, informational content, and professional guidance, the app aims to create a safe environment for individuals seeking help and understanding. Research highlights the increasing need for such digital tools, especially in light of the rising mental health concerns globally, making the app a timely contribution to mental wellness initiatives. User engagement and experience are critical components of the Abhivytkti app's effectiveness. Studies have shown that platforms promoting peer interaction can significantly improve mental health outcomes, and Abhivytkti aligns with this by enabling users to connect with others facing similar challenges. However, user reviews also point to challenges, such as the need for improved privacy features and a more comprehensive resource library [6].

7. Panjab Police Women Safety App: Panjab Safe Citizen Authority

The Punjab Police-Women Safety App, developed by the Punjab Safe Cities Authority, aims to enhance the safety and security of women in Punjab, Pakistan. This mobile application provides a range of features designed to empower women, including a panic button for immediate assistance, location tracking, and direct communication with law enforcement. Additionally, the app offers resources on legal rights, safety tips, and information about local support services. By leveraging technology to create a more secure environment, the app not only aims to address the urgent issue of gender-based violence but also fosters a sense of community and support among users, making it a significant step towards improving women's safety in the region. While studies indicate that similar initiatives can positively impact women's perceptions of safety, challenges such as the digital divide, awareness, and trust in law enforcement persist. Effective implementation relies on targeted awareness campaigns, collaboration with NGOs, and continuous user feedback to optimize functionality and accessibility. Overall, the app holds promise for improving women's safety, but its ongoing efforts to address its limitations and enhance its functionality aims to enhance safety and security for women in the region. The app provides features such as emergency alerts, location tracking, and direct communication with law enforcement. It empowers users by offering quick access to help and resources, promoting awareness of safety measures. Overall, it represents a significant step towards fostering a safer environment for women in Punjab. this app aims to provide a rapid response system for women in distress, promote a sense of security, and improve police accountability. And especially in regions with high crime rates against women [7].

8. Security app KD SOFT LIM

The increasing prevalence of gender-based violence has sparked interest in digital solutions that enhance women's safety, leading to the development of specialized security apps. One such example is the app by KD SOFT LTD, designed to provide real-time protection for women in vulnerable situations. This app offers features like GPS tracking, emergency alerts, and easy-to-access communication tools, allowing users to quickly notify trusted contacts or authorities during emergencies. Such apps represent a critical step forward in leveraging technology to address women's security concerns, although they also face challenges related to privacy, accessibility, and ensuring comprehensive user adoption. The KD Soft Lim security app addresses critical issues surrounding women's safety by integrating features

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such as a panic button, real-time location tracking, safe route suggestions, and community support connections. Research indicates that such technological solutions can enhance women's feelings of empowerment and safety, particularly in urban environments where they often face threats of violence and harassment The KD SOFT LIM security app addresses the pressing need for women's safety in urban environments by providing a range of features designed to enhance personal security. It integrates real-time location tracking, emergency alerts, and a community support network, enabling users to quickly reach out for help or notify authorities in threatening situations. The app emphasizes user- friendly design, ensuring accessibility for women of all ages [8].

9. T-Safe: Telangana State Police Department

The Telangana State Police Department's "T-Safe" initiative is a significant advancement in women's security within India, aiming to harness technology to combat gender-based violence. Launched by the Telangana Police, T-Safe is a safety app designed to empower women by providing real-time safety solutions. It includes features like emergency alerts, live location tracking, and quick connectivity to the nearest police stations. The app is part of a broader state initiative that includes SHE Teams and Bharosa Canters, which focus on protecting women and providing victim support. Literature on such initiatives highlights the role of law enforcement agencies in adopting technology to bridge the gap between citizens and police, thereby offering more efficient and responsive protective measures. However, while such solutions have been lauded for their innovation, they also face scrutiny regarding accessibility, long-term effectiveness, and the integration of gender-sensitive policing practices T-Safe is an innovative initiative by the Telangana State Police Department aimed at enhancing public safety and community engagement through technology. This program integrates various digital tools, such as a mobile application that provides citizens with immediate access to emergency services, safety tips, and real-time updates on crime and traffic conditions. The T-Safe initiative also emphasizes Collaboration between law enforcement and the community, fostering trust and encouraging citizens to report crimes [9].

10. SHILD INDIA: Women Safety App

SHIELD INDIA is an initiative focused on enhancing women's safety through technology-driven solutions. The program incorporates mobile apps, GPS-enabled devices, and partnerships with law enforcement agencies to provide women with real-time protection and assistance. With features such as SOS alerts, location tracking, and quick access to nearby safety resources, SHIELD INDIA aims to create a secure environment for women in public and private spaces. Literature on women's safety initiatives like SHIELD INDIA emphasizes the increasing role of digital tools in preventing violence against women, as they offer immediate avenues for help and deterrence. However, challenges such as user awareness, data privacy, and consistent implementation remain central to the discourse. While SHIELD, INDIA is a promising step in women's security The SHIELD INDIA app is designed to enhance personal safety and security, particularly for women and vulnerable populations in India. It integrates features such as real-time location tracking, emergency alerts, and a community support network to provide immediate assistance during crises. Literature on the app highlights its role in raising awareness about safety issues and its effectiveness in reducing response times in emergencies. Studies suggest that the app's user-friendly interface and accessibility have encouraged greater engagement, while challenges remain in terms of digital literacy and technology adoption in rural areas. Overall, the SHIELD INDIA app represents a significant step towards leveraging technology for social safety, although ongoing evaluations are necessary to assess its long-term impact and areas for improvement [10].

3. Objectives

- Strengthening Women's Safety: Enable quick alerts to families or authorities during emergencies.
- User-Friendly Interface: Simplified design for easy access to safety features like SOS buttons and tracking.
- Safety Resources: Information on self-defence techniques and contact details for local police and safe zones.
- Community Trust: User reviews for safety resources to promote transparency and trust.
- Empowerment Networks: Connect women for support and advice.
- Real-Time Tracking: Share locations and send SOS alerts to trusted contacts.
- Support Women Entrepreneurs: Help women expand their businesses in safety products.

4. Method

4.1. Methodology

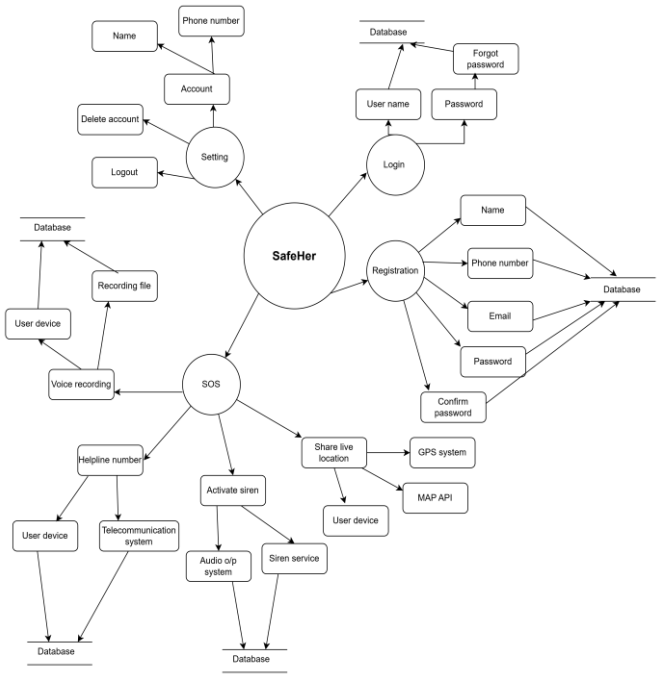

Figure 1. Methodology SafeHer Application

4.2. Explanation

The DFD Level 2 diagram the methodology behind the "SafeHer" application is designed with a user-centric approach, focusing on enhancing personal safety through technology. The process begins with a straightforward registration and login system, where users input essential details such as their phone number, email, and password. Features like "Forgot Password" ensure easy account recovery, while account management options enable users to edit or delete their profiles as needed. This initial step emphasizes simplicity and accessibility, ensuring a hassle-free onboarding experience. The application places a strong emphasis on emergency response capabilities. At its core is an SOS button, which acts as a lifeline during critical situations by sending instant alerts to designated contacts or authorities. To further enhance responsiveness, the app incorporates real-time location sharing, allowing users to share their exact location in emergencies. Integration with GPS and Maps APIs ensures accurate tracking and navigation, which is vital for swift responses during crises. Beyond emergency alerts, "SafeHer" also includes tools for documentation and evidence collection. Features like audio and video recording enable users to capture incidents in real time, providing critical evidence if needed. The inclusion of an automated emergency alert system adds an additional layer of security by triggering alerts without manual intervention, particularly in scenarios where users may be incapacitated or unable to act. To maintain trust and continuous improvement the app incorporates a user review and rating. system, allowing feedback on platform's features and services. This ensures ongoing refinement and alignment with user expectations. Combined, the methodology ensures a holistic approach to personal safety, blending proactive measures like location sharing with reactive tools like SOS alerts and documentation to provide a comprehensive safety net for users. Additionally, the methodology emphasizes a seamless and intuitive user experience across multiple platforms, with integration for both Android devices. This cross-platform compatibility ensures that users can access the app regardless of their device choice. The application's design also focuses on accessibility and ease of use, incorporating features like voice-activated commands or push notifications for urgent updates. By maintaining a balance between functionality and simplicity, the app ensures that even in high-stress situations, users can easily navigate and access the critical safety features without difficulty. This thoughtful integration of technology with user needs makes "SafeHer" a comprehensive and reliable tool for personal safety.

5. Results and Discussion

The system architecture for the "SafeHer" app is organized around a central node labelled "SafeHer," connecting features focused on user safety, account management, and emergency response. The User Registration and Login process requires users to provide details such as name, phone number, email, and password. Password recovery options ensure secure access restoration. Account Management functionalities, including Logout, Delete Account, and customizable Settings, enhance user control and personalization. The User Device feature track's location and activities, enabling real-time assistance. These elements work cohesively to provide emergency responsiveness, from location tracking to instant communication tools, ensuring women's safety in critical situations. The diagram is structured around a central node labelled "SafeHer," with various interconnected features that address user safety, account management, and emergency response. These features grouped into different categories, each serving a critical purpose in the app's functionality. At the heart of the app's system is the User Registration and Login process. To get started, users must provide essential personal information, such as their name, phone number, email, and password during registration. Afterward, the user can log in using their username and password. The app also provides options for password recovery, which is important for users who may forget their login credentials. This ensures that users can regain access to the app in a secure manner. In terms of Account Management, the app offers essential functionalities like Logout and Delete account, allowing users to maintain control over their accounts. The Settings option provides users with a space to adjust their preferences, ensuring that they can customize their experience based on their specific needs or circumstances. These elements combine to ensure the app's usability, security, and user convenience. In terms of Account Management, the app offers essential functionalities like Logout and Delete account, allowing users to maintain control over their accounts. The Settings option provides users with a space to adjust their preferences, ensuring that they can customize their experience based on their specific needs or circumstances. These elements combine to ensure the app's usability, security, and user convenience. The User Device feature tracks the location and activities of the user, facilitating real-time assistance. based on their specific needs or circumstances. These elements combine to ensure the app's usability, security, and user convenience. In terms of Account Management, the app offers essential functionalities like Logout and Delete account, allowing users to maintain control over their accounts. The Settings option provides users with a space to adjust their preferences, ensuring that they can customize their experience based on their specific needs or circumstances. These elements combine to ensure the app's usability, security, and user convenience. The User Device feature tracks the location and activities of the user, facilitating real-time assistance responsiveness in mind. Its features work together to offer a holistic solution to emergencies, from tracking the user's location to offering instant communication tools. With these systems in place, the app ensures that women can feel more secure, knowing that help is always just a few taps away.

5.1 Functionality Tables

Figure 1. Functionality Table

Sr.No	Functionality	Working
1	Share Live Location	When you click on Share Live Location option live locationgoes to your registered gradient number in form of TEXTMESSAGE.
2	Activate Siren	When you click on Activate Siren Button Siren Sound is Activated.

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3	Voice Recording	When you click on voice recording button voice Recordingwill start.
4	Helpline Number	When you click on Helpline Number button the call goes toHelpline Number.

6. Conclusion and Future Scope

The SafeHer application is a significant initiative addressing the diverse challenges women face in ensuring their safety. By integrating features such as real-time location sharing, emergency alerts, and access to localized support services, it provides a comprehensive platform that enhances security and autonomy for women. The app's user-friendly design and accessibility empower women to take proactive steps toward their safety, bridging the gap between distress situations and timely assistance. It not only addresses the immediate need for help but also plays a crucial role in raising awareness about safety resources, thus mitigating the issue of underutilization. This is particularly important as a considerable percentage of women remain unaware of the safety services available in their area. SafeHer's efficient communication tools further ensure that women can instantly connect with their trusted network or authorities, reducing response time and enhancing the overall effectiveness of emergency interventions.

The application demonstrates its relevance by tackling critical safety concerns and fostering confidence and mobility among women. It contributes to creating an environment where women feel empowered to navigate their daily lives with a reduced sense of vulnerability. However, like any solution, the app has certain limitations, primarily in terms of resource availability and potential challenges in ensuring widespread adoption. Addressing these limitations involves expanding its reach through collaborations with government bodies, NGOs, and law enforcement agencies. Such partnerships can enhance the app's visibility and effectiveness, particularly in underrepresented or high-risk areas.

SafeHer's future scope includes leveraging emerging technologies to further improve its capabilities. Incorporating artificial intelligence for predictive safety alerts and machine learning to analyse user behaviour can enable personalized safety recommendations and potentially prevent incidents. The inclusion of multilingual support and features designed for differently-abled women can make the application more inclusive, ensuring it caters to a diverse user base. Regular updates driven by user feedback and safety trends will ensure the app continues to address evolving challenges. By pursuing these advancements, SafeHer has the potential to become a global standard in technology-driven solutions for women's empowerment and security.

Data Availability
The data that supports the findings of this study can be accessed from the corresponding author upon a reasonable request.

Conflict of Interest
The authors declare that they have no conflict of interest related to this research.

Funding Source
The authors confirm that this research was conducted without any external funding.

Authors' Contributions
Author-1 (Harshada Bhandare) guided the project, offering support in conceiving the study and ensuring academic alignment.

Author-2 (Siddhi Rajmane) designed the research and edited the manuscript.

Author-3 (Nikita Patil) designed the methodology and analyzed the data.

Author-4 (Vaishnavi Mane) drafted the manuscript.

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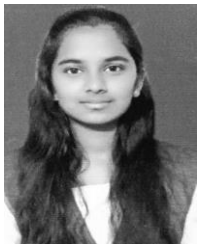

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