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Eviora : A Women's Safety Application

Prof. B.S.Patil [1], Ms. Tanishka Jain [2], Mr. Atharva Gaikwad [3], Mr. Sanjay Bhalekar [4]

[1] Professor, Department of Artificial Intelligence & Machine Learning, AISSMS Polytechnic, Pune, Maharashtra, India
[2,3,4,5] Student , Department of Artificial Intelligence & Machine Learning, AISSMS Polytechnic, Pune, Maharashtra, India

ABSTRACT:

Eviora is an integrated women safety application that applies advanced technology and live support to generate a safe sense of security among people. Due to the increasing anxiety over the safety of women in cities, particularly, Eviora has developed with features offering immediate relief and assistance in any form of danger or emergency situation. The central feature of the app is live GPS tracking, enabling users to share their real-time location with close contacts and local authorities in the event of an emergency. Eviora's most notable feature is its SOS alert function, which allows users to send an alert notification to pre-arranged contacts and surrounding emergency services with a simple tap. The app also has geo fencing capability, where users can create safe zones and send alerts on entering or exiting the defined zones. Eviora also provides the capability for recording audio and video during the occurrence of an emergency event, which is extremely important for documentation and as a legal evidence source. Eviora is supported by wearable devices, such as smartwatches, to provide hands-free alerting and allow the user to call for help discreetly without having to pull out their mobile device. This feature is particularly helpful in emergency situations where using a phone may not be safe or possible. Security of information and privacy of users are Eviora's top concerns, and the app uses encryption mechanisms to protect sensitive information, such as location information and personal contacts. The app also complies with privacy regulations like GDPR so that user information is processed with utmost care and confidentiality.

KEYWORDS: SOS Alert, Real-time GPS Tracking,

I. Introduction

Eviora is a women's safety mobile application that guarantees immediate help and individual protection in moments of crisis. It was born at a time when women's safety was under threat, especially in urban areas where harassment, attacks, and violence against women are the norm. The application aims to address these challenges by offering a combination of real-time support, proactive security features, and an accessible user interface that can be accessed promptly during emergency cases. The overall goal of Eviora is to empower women by giving them the tools they need to protect themselves and call for help in cases of emergencies. With the assistance of advanced technologies such as GPS location tracking, SOS messages, and geo-fencing, the application allows users to notify their reliable contacts or emergency services with their exact location when they are under threat. It also allows for audio and video recording during the incident, where women can record incidents for evidence or future legal use. Eviora allows integration with wearable devices like smartwatches, providing users with a hands-free experience to trigger alerts without necessarily using the phone. Security and privacy of user data are among the core issues in Eviora development. The application employs encryption techniques to secure sensitive information, such as real-time location and personal contacts. Regulatory compliance such as that for GDPR in case of data protection is also maintained so that the data is given the highest possible care. Eviora has a user-friendly interface, intuitive, and simple to use, and hence accessible to women of all ages even under high-stress conditions. Its use is goal-oriented towards ease, so that essential features like the SOS button and share live location are available when required. The app also allows users to modify settings, like emergency contacts and safety features, so that it is attuned to the special needs of different individuals. Overall, Eviora is a comprehensive safety application that not only provides direct aid in times of emergencies but also aims to reduce the risk of harmful situations by empowering women by giving them control over their safety.

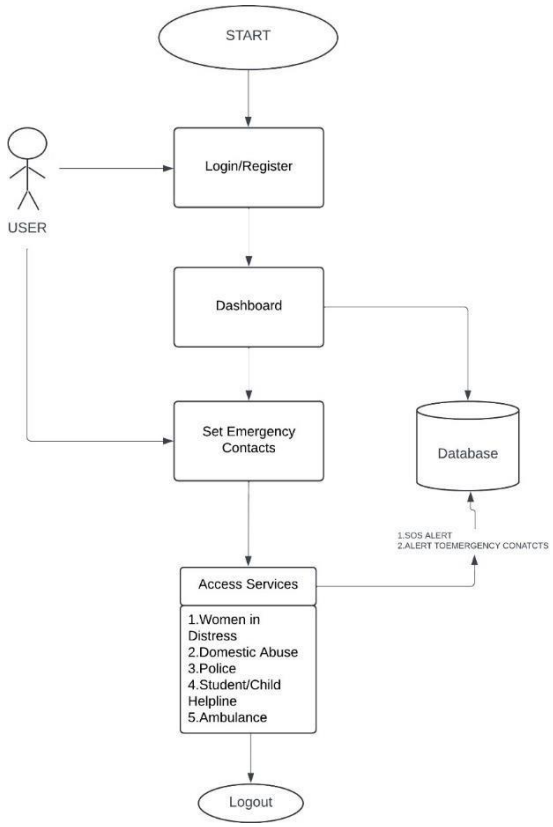
Through the use of real-time technologies, wearable devices, and emergency service integrations, Eviora offers an end-to-end solution for personal safety, ultimately resulting in a safer environment for women. In today's age, women's security is a huge issue. Women are harassed irrespective of whether they are in schools or colleges, at offices or even at home. The majority of women are afraid to venture out of their safezone. Since the number of such crimes against women is still increasing, women's freedom is dwindling. Emergencies can arise anytime and anywhere. Under such circumstances, an android app which would be able to provide help to the distressed women in order to receive help or flee the situation as comfortably as possible.

Problem Statement

Women's safety is a persistent problem due to rising incidents of violence, harassment, and insecure spaces. Conventional safety measures are generally useless in times of need due to latency, lack of connectivity, or fear, risking women—especially in remote or new locations. There is a clear necessity for an integrated, easy-to-use solution that offers instant support and monitoring.

Eviora covers these loopholes with an inclusive safety app having instant distress notifications, real-time location sharing, and communication with trusted individuals as well as emergency services. From geo-fencing, live recording of audio/videos, to specific security features set by the individual, Eviora allows women to answer menacing situations confidently while feeling more secure in general.

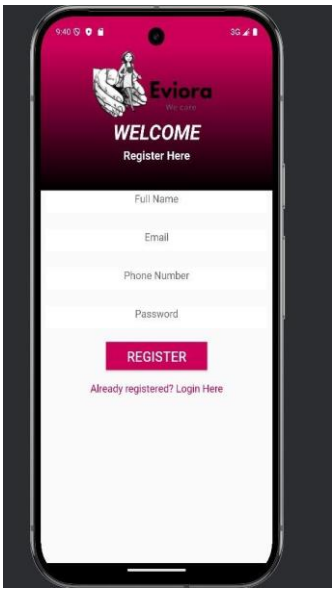
Flow chart



Working of the Project:

1. User Registration:

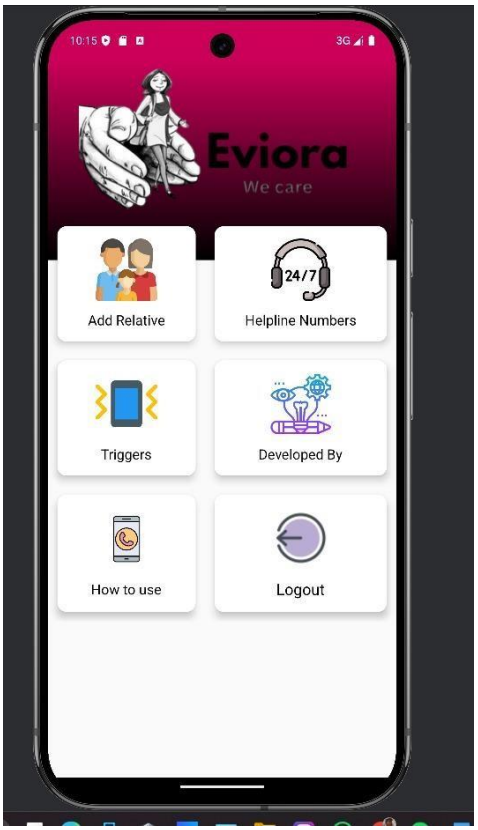
New users begin with registering on the EVIORA application using basic details such as name, phone number, email, and password. This gives secure and personalized experience.



2. User Login:

Users can log in once they have registered using their credentials. The login keeps the application secure and ensures that only approved users

get access to the safety features.

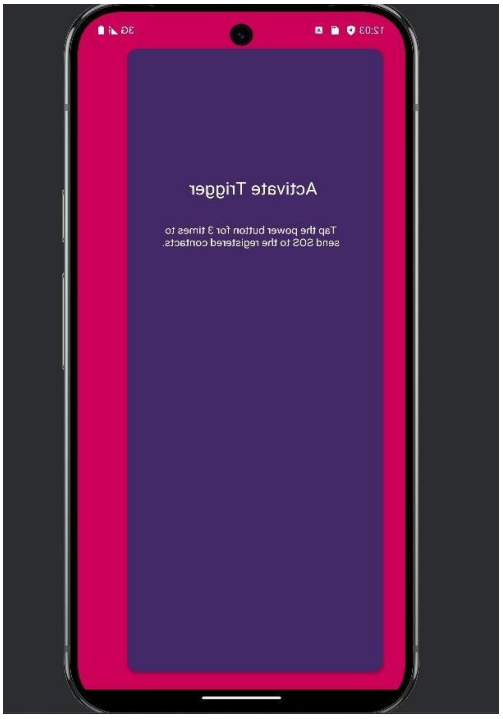


3. Emergency Contact Setup:

After login, the users can provide trusted emergency contacts—like friends or family members—who will receive a notification in case of an emergency. The provided contacts will receive a notification during an SOS event..

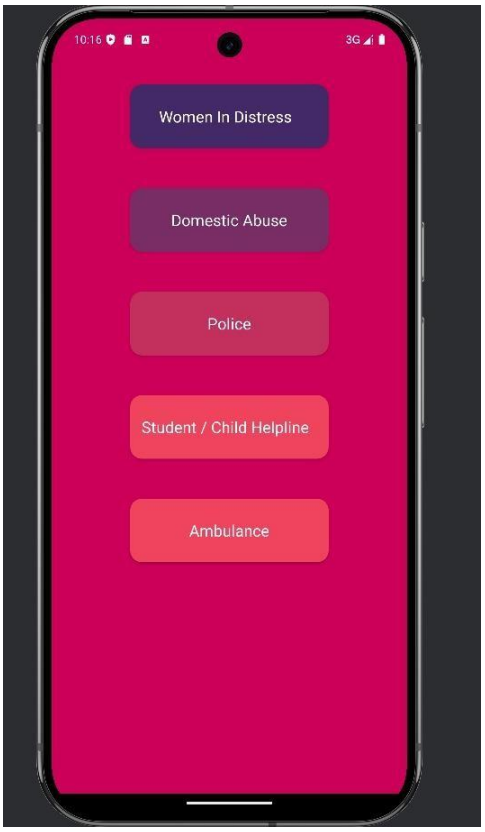
4. SOS Alert Activation:

The key feature of EVIORA is the SOS button. In a state of emergency, the SOS button can be activated by users, which automatically sends an alert message to the emergency contacts and the live location of the user.



5. Helpline Numbers:

EVIORA also provides a list of verified helpline numbers such as local police, women's helplines, and emergency numbers. Users can directly dial these numbers from the app in case of emergency.



Outputs And Result

Outcome:

Implementation of Eviora is projected to significantly enhance the safety of women through a reliable, technologically based medium of emergency calling, live location tracking, and event recording. Through bridging the gap between existing security setups, Eviora provides women with enhanced confidence in managing their safety, reducing emergency response time, and improving security through prevention and intervention modes.

Conclusion

Eviora is a women's safety app with real-time GPS location tracking, SOS alerts, geo-fencing, and emergency audio/video recording. It provides discreet activation, instant local emergency services dialing, and strong data privacy with GDPR compliance.Eviora was made inclusive, multi-language supported, and feature-differentiable. Eviora provides women with strong proactive and reactive safety measures against crime and enables secure freedom of movement, especially during night hours.This study elucidates its concept and successful GPS implementation. The app, compatible with any Android phone, is specifically developed to reduce crimes against women and serve as an electronic umbrella for their safety.

Future Scope

In the future, the women's safety app can be smarter and more efficient. With AI, the app can detect danger automatically based on a person's voice, facial expression, or movements—helping those who are unable to speak up and request help. It can also integrate with wearable devices like smartwatches or safety bands, allowing users to send out alerts discreetly and quickly.

A live safety map would prevent users from accessing unsafe areas by showing current information based on user reports and crime statistics of a particular area. Voice commands and support for various local languages would make the application more usable for more people, even those who are not at ease with technology. Offline features, for example, the sending of alert messages through SMS, would make the app usable even where internet connectivity is scarce or nonexistent. In addition, it could also gain from good cooperation with the police and emergency services to make it possible for users to receive faster help when needed. It can also include emotional support features like counseling chat or mental health resources that help women heal and feel supported after going through any traumatic experience.

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