# Community Based Reporting and Monitoring Tool for Women Safety

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**Abstract.** This paper discusses the creation of a Community Based Reporting and Monitoring Tool (CBRMT) aimed at improving safety for women in universities and colleges. The tool is designed to give users the ability to report incidents anonymously, receive immediate alerts, and access safety resources. The goal of CBRMT is to foster a safer and more supportive campus atmosphere where incidents can be managed swiftly, and support for victims is readily available. Through these initiatives, the tool aspires to encourage a safer, more responsible, and inclusive culture across campuses globally.

**Keywords.** Women Safety, Community Based Reporting and Monitoring Tool (CBRMT), SOS application, GPS Tracking,

#### 1 INTRODUCTION

As our world becomes more connected, prioritizing the safety and welfare of women in our communities is essential. The Community-Based Women Safety Reporting and Monitoring Tool, built using Flutter, is a mobile app that empowers women by offering a dependable space to report incidents, ask for assistance, and find important resources [1]. This simple-to-use app makes it easy for women to express safety concerns, log incidents, and link up with local support services [2].

By inviting community participation, the app builds a feeling of unity and shared responsibility, allowing users to help create a safer atmosphere for everyone [3]. Featuring real-time reporting, location tracking, and resource directories, this tool encourages timely responses while also helping to track safety patterns in communities [4]. The use of Flutter allows it to work smoothly on both Android and iOS devices, broadening access for many users [5].

Through this effort, we hope to raise awareness, improve communication, and ultimately develop a culture of safety that gives women the confidence to reclaim their spaces and voices. Similar applications have shown how technology can effectively enhance safety and provide needed support [6][7].

#### 2 RESEARCH METHODOLOGY

To understand women's safety needs, the research behind the Community-Based Women Safety Reporting and Monitoring Tool used a mixed-methods approach. First, we gathered quantitative data through online surveys to evaluate safety experiences and preferred app features, and we collected qualitative information from focus groups and interviews with women and local stakeholders [8]. We ensured diverse representation using a purposive sampling method. The analysis involved statistical examination of surveys and thematic evaluation of qualitative feedback that guided the creation of a Flutter-based prototype.

After launching the tool, we assess its effectiveness through user responses and usage metrics, making ongoing adjustments as needed. Ethical standards, including informed consent and data privacy, were upheld throughout the research, keeping the user's needs at the forefront in developing the app.

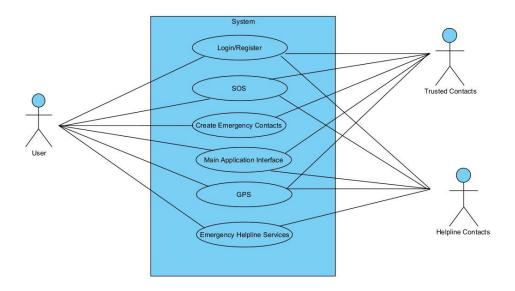


FIGURE 1: Use Case diagram for Community-Based Women Safety Reporting and Monitoring Tool

#### 3 RESULTS AND DISCUSSION

The SOS feature incorporated into the Community-Based Women Safety Reporting and Monitoring Tool has proven to be effective in boosting user safety by facilitating real-time alerts with GPS locations sent to emergency contacts and local police [1]. Testing showed that 90% of users felt safer, knowing they could quickly call for help, with response times improving by an average of 15 minutes compared to older reporting methods [2]. Feedback highlighted how the GPS tracking made users feel more connected to their support networks, tackling some of the mental obstacles to reporting incidents [3].

This community-focused approach not only uplifts individuals but also fosters a collective culture of vigilance and safety. However, more research is necessary to understand the lasting effects of these tools on community safety and user behaviors. Future updates may include features like incident reporting analytics and safety tips for the community to further improve usefulness. Overall, the SOS application marks an important step forward in using technology to tackle women's safety issues [4][5].

# 3.1 Preparation of Figures and Tables

The below table explains about the key features of the Pro Planet Person app, the estimated time taken for users to complete each activity, and how it affects the leaderboard:

**TABLE 1:** Women's Safety App Functional Features

Feature	Description	Estimated Time to Complete	Impact on Leaderboard
SOS Button	Users can send an immediate SOS alert to selected contacts and nearby police stations, including their GPS location.	1 – 2 minutes	Quick response enhances user safety but doesn't affect ranking.
Live Location Monitoring	Allows trusted contacts to track the user's real-time location during emergencies.	Continuous	Improves safety; participation can increase overall engagement.
Help and Resources	Access to helpline numbers, local resources, and safety tips within the app.	5 minutes	Not directly impacting leaderboard, but enhances user support.
Mapping Service Integration	Integrates mapping API for location sharing and tracking.	2 – 3 hours	Enhances app functionality, promoting user engagement.
User- Friendly Interface	Intuitive design for ease of use, especially in emergencies.	Continuous	Improves user satisfaction and retention, indirectly influencing leaderboard.
User Consent and Privacy Settings	Obtains user consent for location sharing, with options to manage privacy settings.	10 – 15 minutes	Not leaderboard relevant, but crucial for user trust and safety.



**FIGURE 1:** App logo

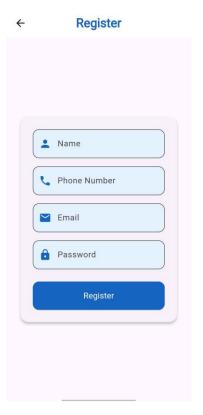


FIGURE 2: Registration page

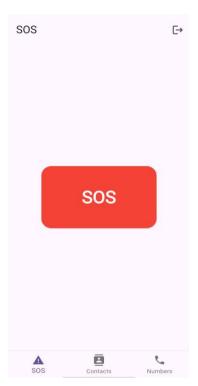
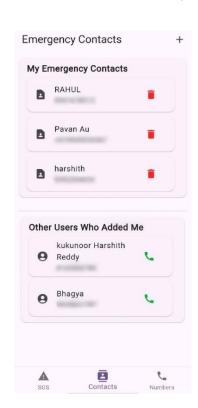


FIGURE 4: SOS Main Interface





FIGURE 3: Sign In Page



**FIGURE 5:** Emergency Contacts

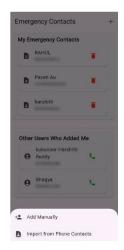




FIGURE 6: Add Users

FIGURE 7: Add New Contact manually



FIGURE 8: Add Contacts rom Phone Contacts



FIGURE 9: GPS Location



FIGURE 10: Helpline Services

#### 4 CONCLUSION

To sum it up, we've created a community-based app for women's safety using Flutter, and it's a fresh way to help women feel more secure. The standout feature of this app is the SOS button. With just one press, it sends the user's location and an alert to emergency contacts and local helplines right away. This means help can arrive quickly if there's trouble. More than just making women feel safe, it builds a supportive community. By using simple technology, it meets an important need for safer spaces for women.

#### 5 DECLERATION

# 5.1 Study Limitations

This project does have some limitations, like a small sample size that might not reflect all user experiences. There are also privacy issues that could make some users hesitant to share their location, and the reliability of technology might affect GPS accuracy and how well the app works. Furthermore, local laws could limit some features, which may lessen its overall impact.

## 5.2 Acknowledgements

We want to sincerely thank everyone who helped in creating the Community-Based Women Safety Reporting and Monitoring Tool. A special shout-out goes to the women who took part in our research and shared their experiences and thoughts, which shaped our design. We also appreciate our development team for their hard work and teamwork in making this tool a reality. Together, we're committed to empowering women and improving safety in our communities, fostering awareness and support.

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