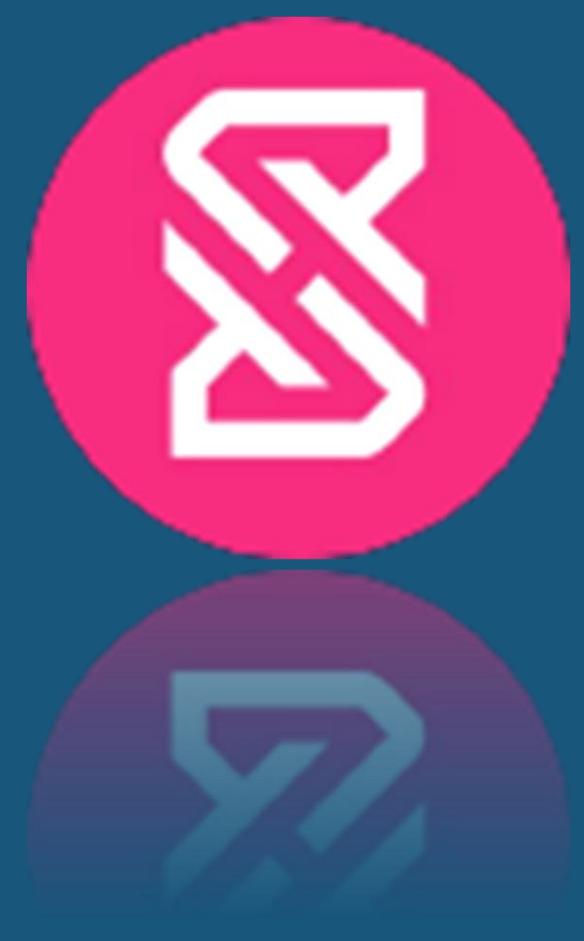


Safe-hood

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Introduction:

In simple terms, violence against women is a big problem, but not enough research is done on why it happens or how to stop it. This study is making a special phone app to help keep women safe and teach people how to prevent violence[1]. It's an important step in helping make the world safer for everyone. With this application was the first main criteria to prevent and educate woman for how will be safe[2], and use a few more already exist tools to in the app what is normally hardly can find in the same app.

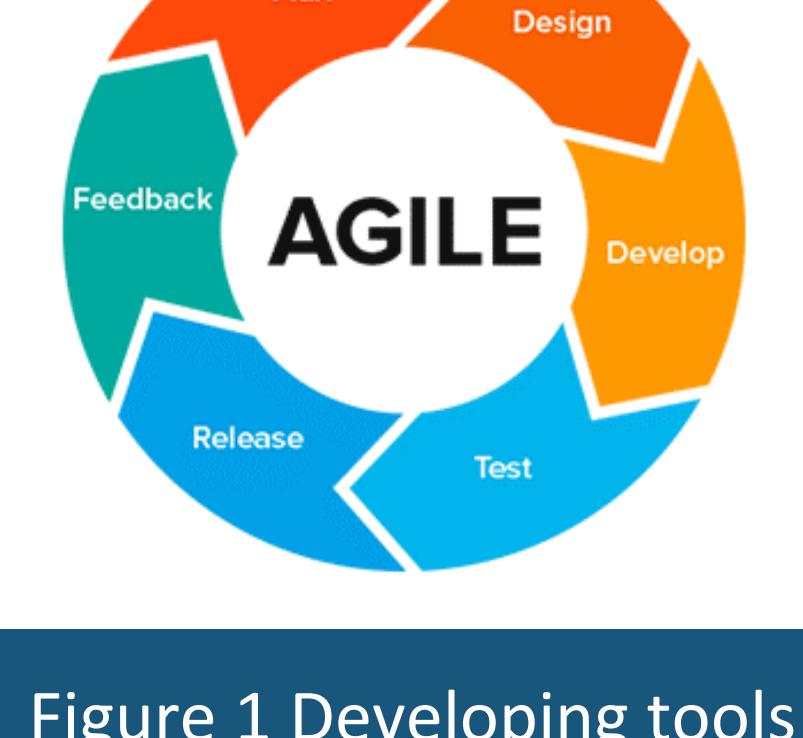


Figure 1 Developing tools

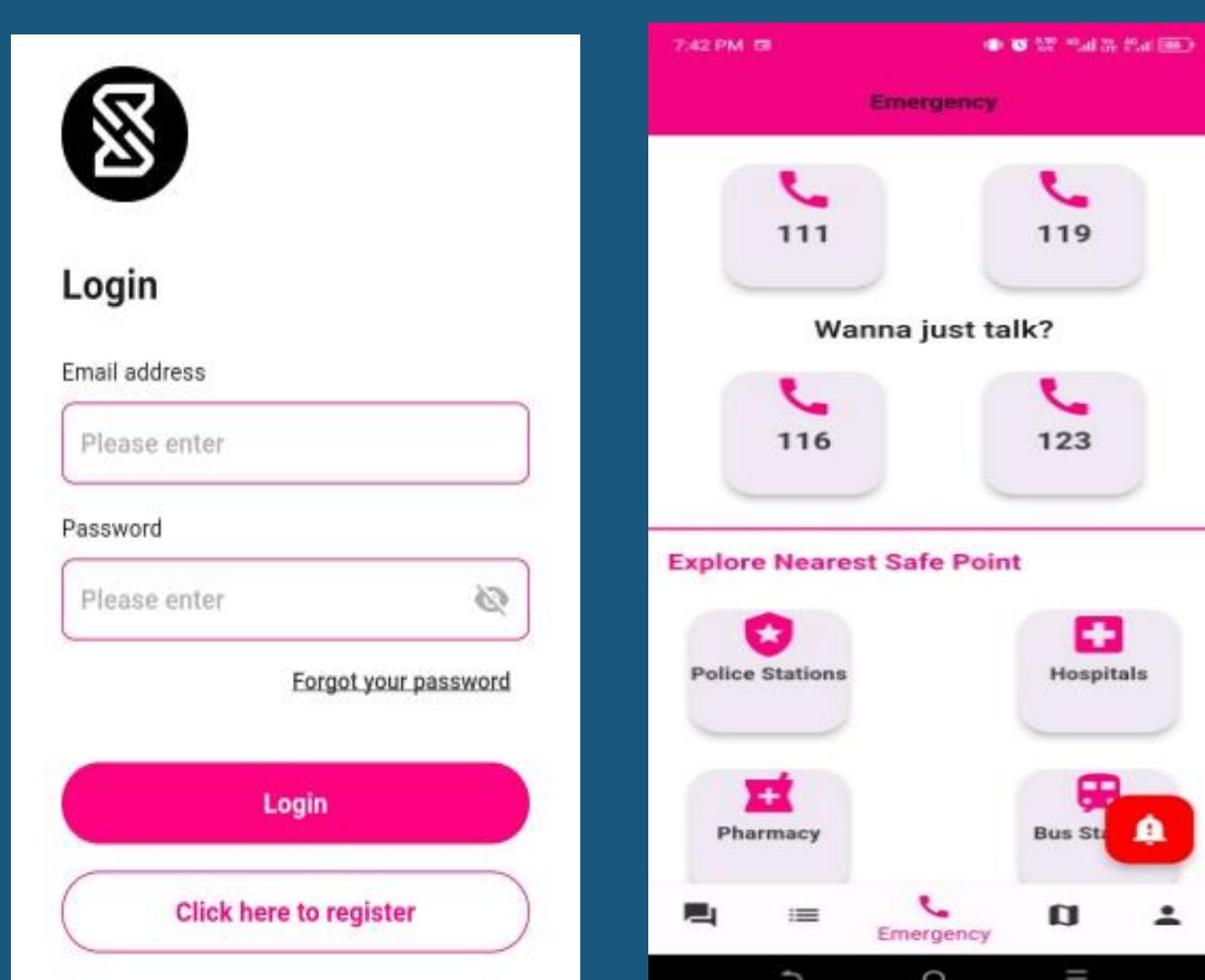


Figure 2 – app screenshot

Developed:

Backend:

- Firebase Authentication:** Offers UI libraries and SDKs for user authentication via phone numbers, passwords, and providers like Google, Twitter, and Facebook.
- Firebase Cloud Firestore:** Cloud-based NoSQL database for data storage and synchronization.
- Cloud Storage:** Securely stores application resources, suitable for media files and user content.
- Crashlytics:** Realtime crash reporter for tracking and addressing stability issues.
- Google Maps API:** Enables integration of Google Maps features.

Frontend:

We've adopted Flutter for scalable and cost-effective UI development. Developed and supported by Google, Flutter is an open-source framework for building consistent UIs across multiple platforms with a single codebase.

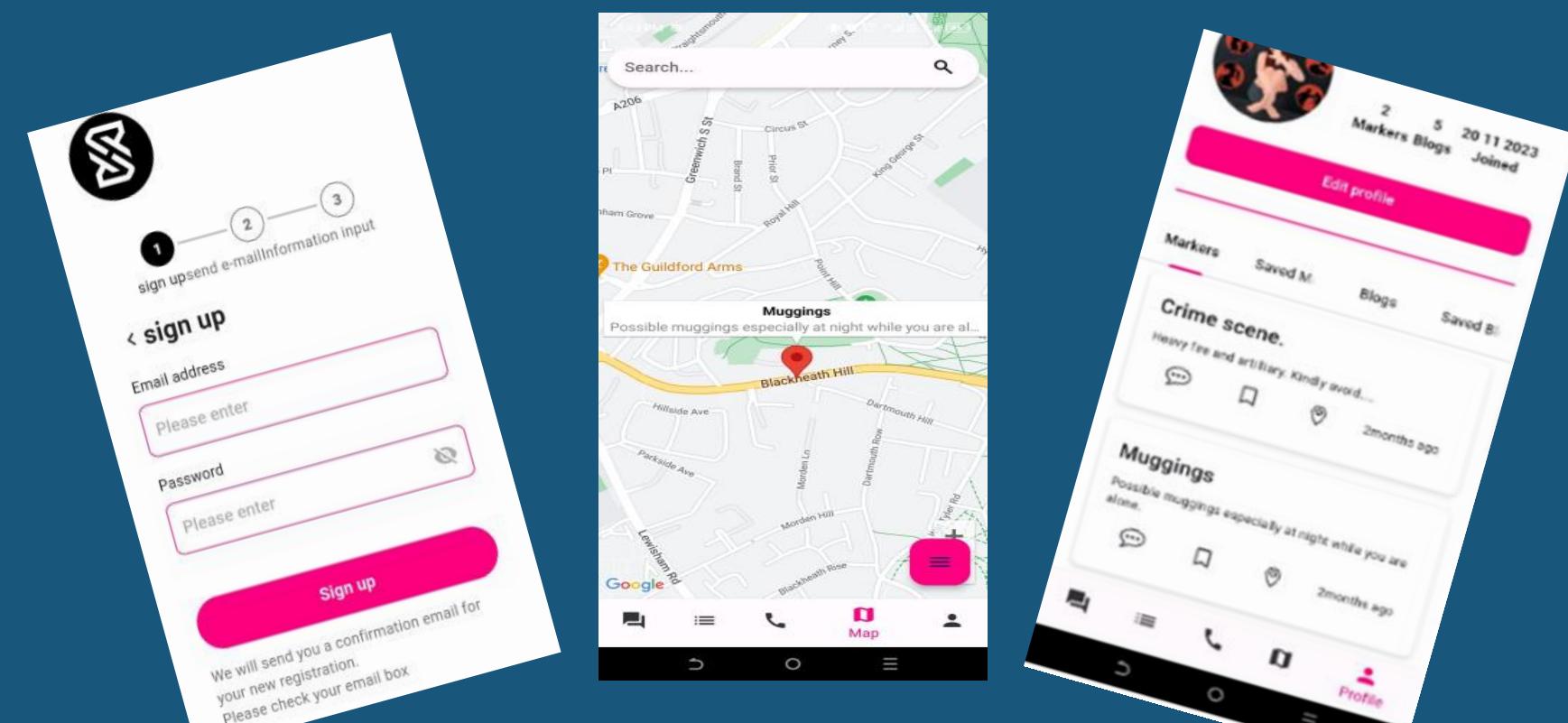


Figure 3 – app screenshot

Conclusion:

In conclusion, our study tackles violence against women by creating a specialized phone app for safety and education. Leveraging tools like Firebase Authentication and Google Maps API, our app offers features like customization and easy topic search. With day/night support, multilanguage options, and an emergency diary, this app is a major step toward a safer world for all.

Reference:

- [1] W. Niroo and H. Crompton, "Women's Empowerment through Learning Using Technology," *Asian Journal of Distance Education*, vol. 17, no. 2, 2022, Available: <https://files.eric.ed.gov/fulltext/EJ1373932.pdf>[2]
- [2] K. Eisenhut, E. Sauerborn, C. García-Moreno, and V. Wild, "Mobile Applications Addressing Violence against women: a Systematic Review," *BMJ Global Health*, vol. 5, no. 4, Apr. 2020, doi: <https://doi.org/10.1136/bmjgh-2019-001954>.