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VJITSECURE APPLICATION USING ANDRIOD SDK

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ABSTRACT
This application is a dedicated platform developed exclusively for women, aiming to enhance their safety, support system, and grievance redressal mechanisms. It integrates critical features such as an SOS alert system, emergency contact management, grievance submission and tracking, mentorship access, and educational safety resources. Women users can securely report issues, track the status of their complaints, seek guidance, and receive immediate assistance in emergencies. An admin panel enables efficient backend management and resolution of grievances, ensuring accountability.

Keywords:
Grievance Redressal, Emergency Contact Management System, SOS Alert System, Women Safety.

INTRODUCTION

This project presents a dedicated platform exclusively designed for women, with the core objective of creating a safe, supportive, and empowering digital space. The application integrates a variety of critical features such as an SOS alert system, emergency contact management, secure grievance submission and tracking, mentorship access, and educational safety resources.

OBJECTIVES

- Create a mobile application that integrates real-time SOS alerts, grievance redressal, mentorship access, and educational resources for women's safety.
- Allow users to submit complaints securely and track their status, ensuring transparency and accountability.

PROBLEM STATEMENT

Despite the advancement of technology and the availability of various safety tools, women continue to face challenges related to personal security, timely assistance, and access to proper grievance redressal mechanisms. Most existing applications focus solely on emergency response, such as SOS alerts or location sharing, while neglecting essential aspects like complaint tracking, emotional support, mentorship, and educational awareness. Furthermore, many platforms lack an efficient backend system for administrators to manage and resolve reported issues transparently.

SYSTEM ARCHITECTURE

The system follows a three-tier architectural design comprising the presentation layer, business logic layer, and data access layer.

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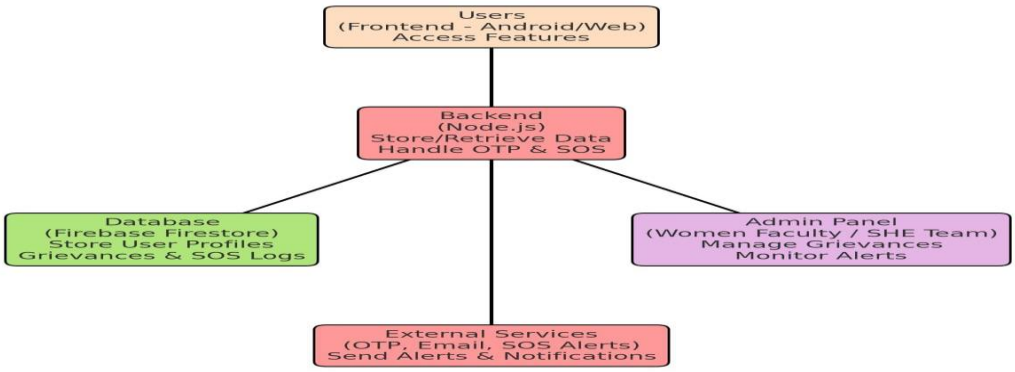

RESULTS

The application successfully provides a comprehensive safety platform, enabling women to report grievances and receive immediate assistance. It ensures real-time emergency response, grievance tracking, and access to emotional support through mentorship. With a user-friendly interface and efficient admin management, the system enhances safety and empowerment for women, creating a secure and supportive environment

FUTURE SCOPE

The future scope of the women's safety application includes the integration of AI-based threat detection and real-time monitoring to predict potential safety risks. Additionally, there is potential for expanding the platform to include location-based services that offer safer routes and locations for women to visit. The application could also introduce multi-language support to reach a broader audience and enhance accessibility. Further improvements could include integrating wearable devices for automatic SOS alerts in case of emergencies and collaborating with local law enforcement for a more direct and efficient response to safety incidents. As the platform evolves, more features related to community building, such as forums for support groups and peer mentorship, can be incorporated to foster a stronger, united community of women.

CONCLUSION

The *VJIT Women Secure System* is a powerful initiative aimed at improving the safety and well-being of female students and faculty in academic environments. Through features like grievance submission with real-time tracking, an emergency SOS alert system, WhatsApp integration, and offline functionality, the application ensures swift support even in critical situations.

REFERENCES

[1] A. Gupta, R. Sharma, and P. Mehra, "Mobile-Based Women Safety Application," *International Journal of Computer Applications*, vol. 182, no. 23, pp. 15–18, 2018.
[2] P. Sharma and A. Jain, "An Emergency Alert System for Women Safety Using GPS and IoT," in *Proc. IEEE Int. Conf. Electronics, Communication and Aerospace Technology (ICECA)*, pp. 1051–1055, 2020.
[3] S. Kumar, A. Roy, and R. Dutta, "Enhancing Campus Security with Mobile Applications," in *Proc. Int. Conf. Adv. Comput. Commun. Syst. (ICACCS)*, pp. 921–925, 2019.
[4] R. Patel, N. Sharma, and S. Joshi, "A Real-Time Grievance Redressal System Using Android," *International Journal of Engineering Research*, vol. 10, no. 4, pp. 230–234, 2021.
[5] M. Singh and V. Reddy, "Location-Based Services for Personal Safety Applications," in *Proc. ACM SIGSPATIAL Conf. on Advances in Geographic Information Systems*, pp. 1–4, 2017.
[6] S. Agarwal and A. Chauhan, "Mobile Application for Women Safety: A Survey," *International Journal of Advanced Research in Computer Science and Software Engineering*, vol. 5, no. 3, pp. 180–183, 2015.

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[7] N. Kaur and R. Kaur, "Design and Development of a Personal Safety App Using Android," in *Proc. IEEE Int. Conf. Computing for Sustainable Global Development (INDIACom)*, pp. 1323–1327, 2016.
[8] T. Bhardwaj and S. Sharma, "Android App for Women Safety Using GPS and Messaging," *International Journal of Scientific and Research Publications*, vol. 4, no. 3, pp. 1–3, 2014.
[9] A. R. Kumar and A. Kamath, "Smartphone Based Women Safety System Using GPS and GSM," in *Proc. Int. Conf. Smart Technologies and Management for Computing, Communication, Controls, Energy and Materials (ICSTM)*, pp. 376–380, 2017.
[10] R. Ghosh and P. Das, "Smartphone-Based Application for Enhancing Campus Safety: An Empirical Study," *International Journal of Mobile Computing and Multimedia Communications*, vol. 12, no. 1, pp. 20–29, 2020.