



ProtecTech

Protecting Women from safety threats

Problem Statement:

Women Safety Analytics – Protecting Women from safety threats

PS No- SIH1605

Team Name- Skill Issue

Team Members-

- 1)Vivek Kumar Verma(2022UIT3085)
- 2)Aryan Satija(2022UIT3093)
- 3)Vasu Sharma(2022UIT3105)
- 4)Mayank Aggarwal(2022UIT3115)
- 5)Devansh Arora(2022UIT3123)
- 6)Yashi Pitti(2022UCA1909)

UNDERSTANDING THE PROBLEM

With increasing incidents of harassment and violence against women in public spaces, there is an urgent need for a reliable and proactive safety solution.

Current public safety measures lack the integration and immediacy required to address threats effectively.

Women need accessible tools that empower them to take control of their safety.



Need for the solution

Despite technological advancements, women's safety remains a significant concern in many areas.

Traditional safety measures, like emergency contacts or physical alarms, may not always be effective or discreet in urgent situations.

Moreover, law enforcement agencies often lack real-time data and insights to respond swiftly and accurately to incidents.

This project aims to address these challenges by leveraging technology to enhance the safety and security of women.

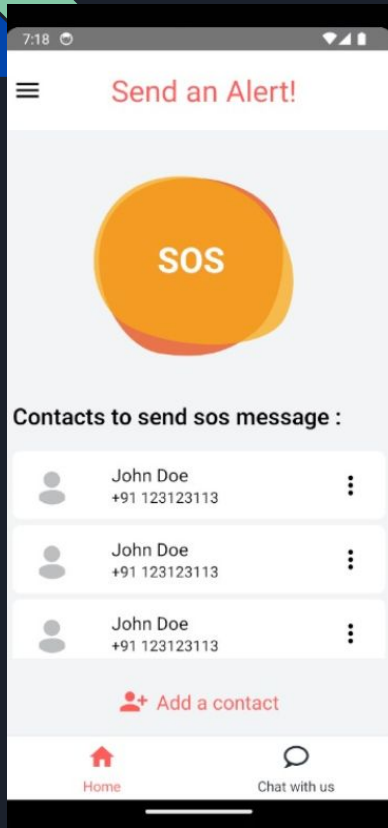




PROPOSED SOLUTION

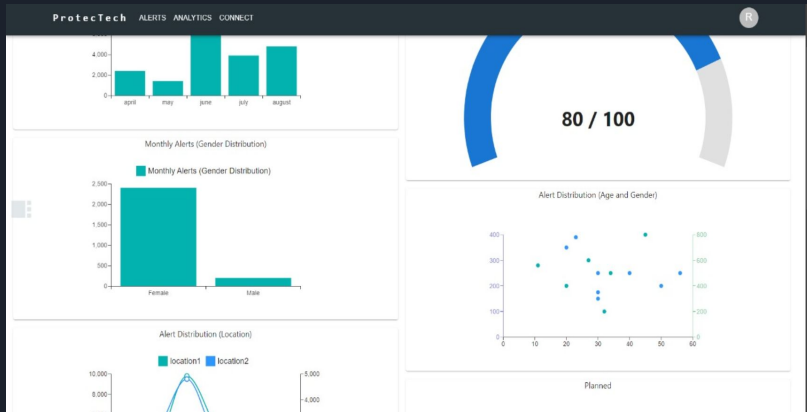
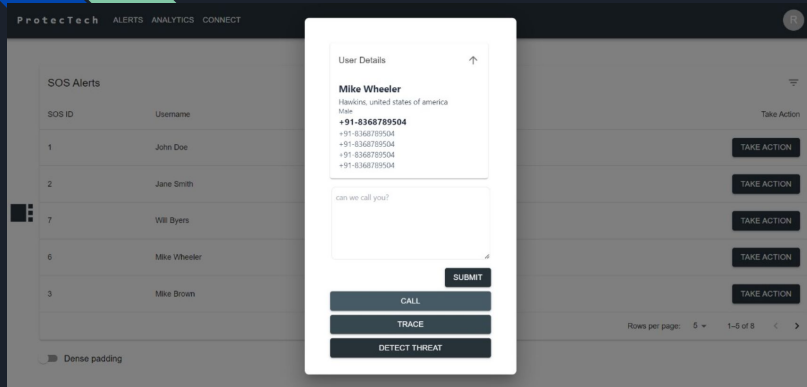
- ProtecTech aims to solve these problems by focusing on the following aspects-
- Various features of the application are-
 - ❖ Provides a comprehensive, AI-driven safety solution that empowers women with real-time protection tools.
 - ❖ Enables law enforcement agencies to respond swiftly and effectively to potential threats.
 - ❖ Enhancing public safety and reducing incidents of violence against women in public spaces.

App Features for Users:



1. **SOS/Panic Button:** Instantly records video and audio, sending the live stream to emergency contacts.
2. **AI-Powered Threat Detection:** Monitors nearby IMSI numbers with criminal backgrounds.
3. **Decoy Mode:** Appears as a harmless app (like a calculator) but secretly tracks voice and other activities, activated by specific gestures.
4. **Safe Route Suggestions:** Recommends the safest routes based on street lighting and crowd density.
5. **Time-Sensitive Auto Alert:** Users can set a timer when entering potentially unsafe situations; if not deactivated, the app sends an alert to emergency contacts.

Web App for Police Officers (CRM):

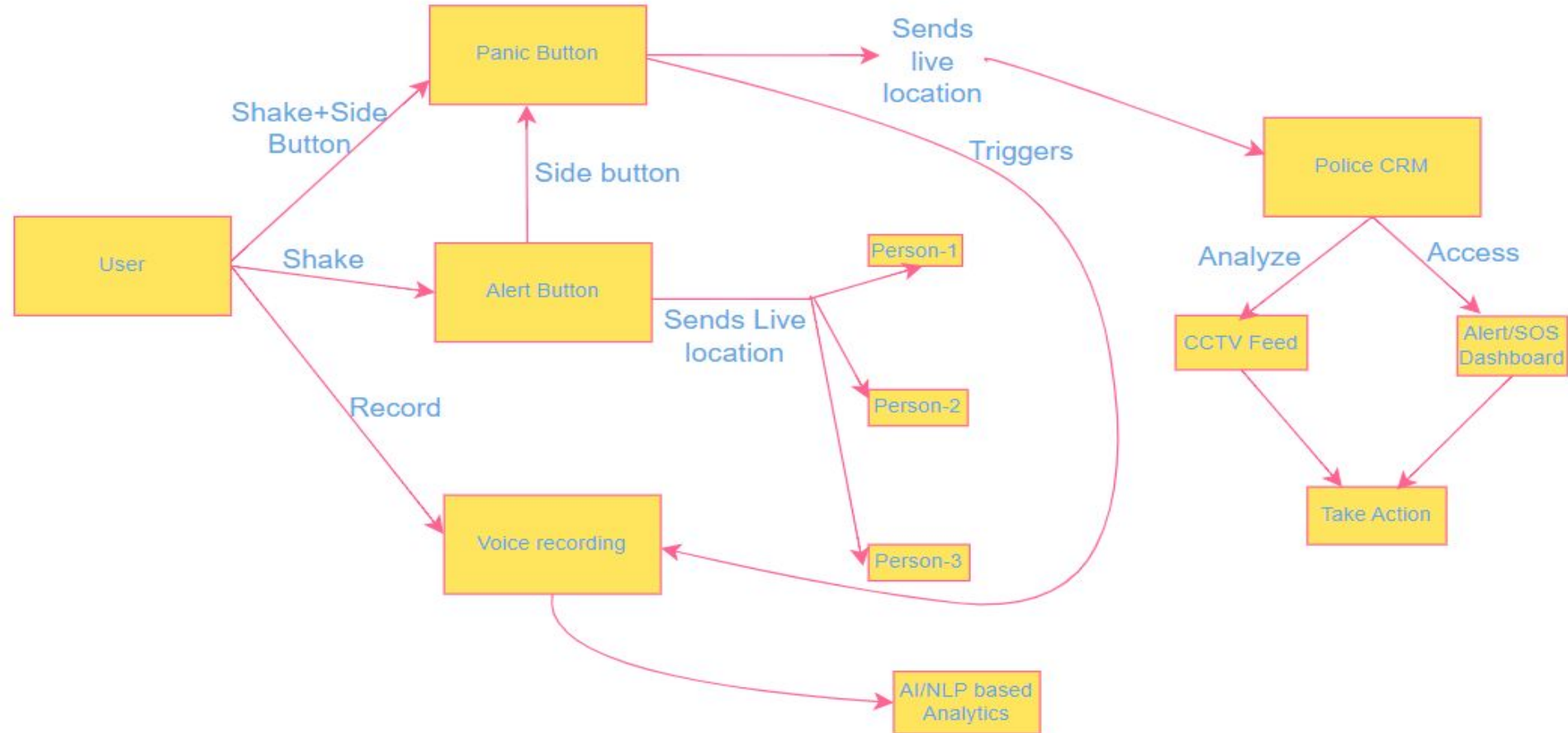


1. **Real-Time Alerts and Incident Response:** Officers receive instant alerts from users and AI-generated threats, enabling rapid response to emergencies.
2. **Comprehensive Analytics Dashboard:** Provides data-driven insights on incidents, crime patterns, and resource allocation to enhance law enforcement strategies
3. **AI-Powered Surveillance Integration:** Integrates AI models with CCTV cameras to detect anomalies and automatically alert officers of potential threats.

Sequence Diagram



APPLICATION ARCHITECTURE



TECH STACK USED

- React (Typescript)
- Tailwindcss
- NodeJs
- ExpressJs
- MongoDB
- Python
- Flask
- React Native
- Kotlin
- Ruby

