SIH PS ID:1605

SAKHI

“Sisterhood. Safety. Support.”

Members Name :

30 - Sanika Misyale

31 - Danish Naik

68 - Aadarsh Sapkal

70 - Sanika Shinde

Introduction

- Women’s safety in public spaces is a growing concern, as traditional tools are often reactive and fail to prevent incidents.
- Sakhi combines Smart GPS Tracking and Safe Route suggestions to guide women safely, while an Automated SOS can instantly alert authorities and a Trusted Safety Circle of family, friends, and women connected to our app, whom we call “Sakhis.”
- The system also supports Danger Zone Reporting, allowing communities to mark unsafe areas, and provides a quick SOS trigger through double-tapping the screen, useful when speaking or calling out is not possible.
- Sakhi aims to create a safer and more empowering environment for women.

Problem Statement

- Growing concern for the safety of women in public spaces.
- Increasing crimes against women in various cities.
- Highlights the need for advanced surveillance and analytical solutions.
- Aim: protect women from possible threats.
- A promising approach is real-time threat detection software.

Literature Survey

Paper Name	Technologies	Drawbacks	Solutions
Paper 1: Women Safety Application Using Geolocation	• Language: Java • Framework / IDE: Android Studio • Development Model: Waterfall Model • Core Tech: GPS (Geolocation method for latitude/longitude) • SMS service	No internet or no SMS/call balance = the app won't work during emergencies.	Tie-up with telecom operators or local police: Emergency button triggers a signal directly to nearest police tower, even without balance. Similar to how emergency calls (100/112) work even on zero balance.

Paper 2: A Conceptual Study on Women Safety Application in Digital Era.	• SOS alert systems • Real-time GPS tracking • Community-based safety networks • Voice recording, sirens, emergency numbers (depending on app) • Cross-platform apps like Life360, I Sharing, Microsoft Family Safety	The paper is only theoretical – it talks about women's safety apps but does not build or test one.	We're building real time Web application
Paper 3: SafeShe (A Women's Safety Mobile App)	• Framework: Flutter (cross-platform → Android & iOS with single codebase) • Backend Services: Firebase, • API: Google Maps API (for GPS & live location tracking) • IDE: Android Studio / Visual Studio Code • UI Design Tools: Adobe Photoshop, Sketch (professional design tools) • Core Tech: Sensors (for alerts), push notifications, video tutorials for self-defence.	Depends on internet and GPS – may fail in poor network areas. Collects personal data (location, contacts) → privacy concerns not fully addressed	we are providing privacy concerns and also the solution as the SMS and calling using the toll-free number where the charges are not applicable and also integrate with the location and also the location sending with the SMS to the family and friends for the contacting with the police station control rooms.

Exisiting System

- Safetipin : Focuses on safety mapping of areas by auditing factors like street lighting, public transport, and crowd density. Provides information on safe/unsafe zones but does not offer instant SOS rescue features.

- Raksha App (by Nirbhaya Jyoti Trust) : Offers an SOS button that sends the user’s location to emergency contacts. Works with GPS but lacks advanced features like safe route suggestion or community-based women support.

- Himmat App (Delhi Police) : Launched by Delhi Police. Allows women to send emergency alerts directly to the police. Limited to certain regions and does not have nationwide support or proactive safety guidance.

- bSafe App : Provides location sharing, fake call alerts, and SOS alarm. However, it depends heavily on internet connectivity, and community involvement is limited.

Proposed System

- AI-powered women’s safety platform
- Beyond SOS apps & helplines – proactive protection
- Real-time threat detection
- Smart location tracking
- Automatic alerts to contacts/authorities
- Works even without direct request for help
- Community-supported safety network
- Safer personal & public spaces
- Boosts confidence – women are never alone

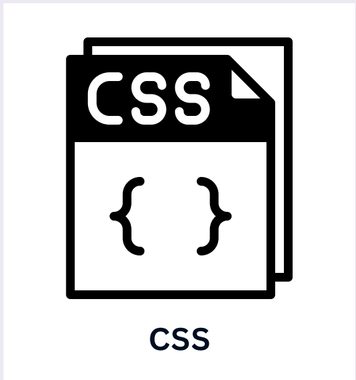
Features

- Smart GPS Tracking & Safe Routes
- Automated SOS
- Trusted Safety Circle (‘Sakhis’)
- Danger Zone Reporting
- Gesture Analytics - To detect specific SOS gestures (waving, blinking of eyes).

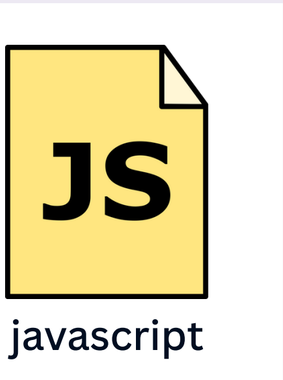
Technology

Website Technology -

HTML

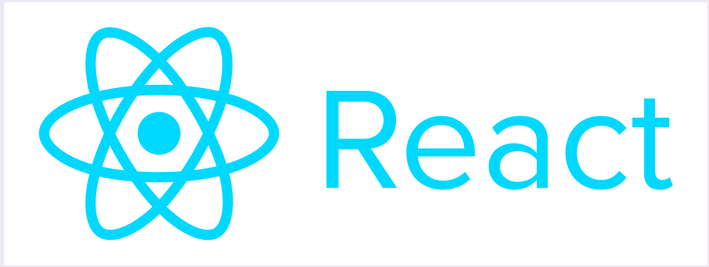


css



javascript

Application Technology -



Thank You