

ECHOSAFE

TEAM NAME

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TEAM MEMBERS

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INTRODUCTION

In today's society, women's safety is a critical and serious issue that includes a wide range of issues affecting women's mental and physical health. Despite significant advances in gender equality and awareness, many women continue to face safety threats in both public and private settings.

According to statistics, violence against women is still prevalent and can take numerous forms, including trafficking, domestic abuse, harassment, and assault. Cultural norms, societal attitudes, and weak legal frameworks may create a culture of fear and insecurity.

MOTIVATION

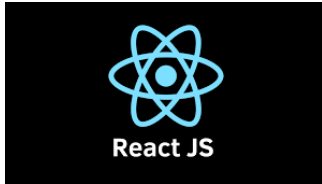
The motivation behind developing a safety app for women stems from the urgent need to address the pervasive issues of violence and harassment that many women face daily. While existing services like emergency hotlines (e.g., 112, KavalanSOS) provide crucial support, they often lack mechanisms for women to share their experiences and connect with others in similar situations.

By creating a platform that allows users to report incidents, share insights anonymously, and seek support, we can foster a sense of community and empowerment. This app aims to raise awareness about safety concerns in specific locations and encourage proactive discussions about personal experiences.

Ultimately, the goal is to create a safe space where women can feel supported, heard, and empowered to take charge of their safety. Through technology, we can facilitate a network that not only responds to emergencies but also addresses the broader cultural issues surrounding women's safety.

ARCHITECTURE DIAGRAM:

FRONT END



BACK END



TECH STACK

Frontend

- **HTML/CSS:** Basic structure and styling of the web app.
- **JavaScript:** Core scripting language for interactivity.
- **React:** For building a dynamic and responsive user interface.

Backend

- **Node.js:** JavaScript runtime for building server-side applications.
- **Express.js:** Web framework for Node.js to manage routes and server logic.
- **Firebase:** For real-time database capabilities, especially for chat functionalities.

Real-time Communication

- **Socket.io:** For implementing real-time chat features, enabling instant message delivery between users.

Location Services

- **Geolocation API:** To access users' location data through the browser.
- **Google Maps API:** For mapping features and displaying locations.

Voice Recognition

- **Web Speech API:** For enabling voice command functionalities to send location and messages

Hosting and Deployment

Netlify: For hosting the web application.

FLOW DIAGRAM



Challenges of Women Safety Technologies (SOS Buttons and Apps)

1. False Alarms and Misuse:
2. Privacy Concerns:
3. Lack of Network Coverage:
4. User Awareness and Adoption:
5. Delayed Response from Authorities

Future Scope of Women Safety Technologies

1. Improved AI and Machine Learning for Emergency Detection:
2. Enhanced Integration with Wearables:
3. Voice Recognition and Natural Language Processing:
4. Community-Based Safety Networks: