

# ProtecTech

Protecting Women from safety threats

## **Problem Statement:**

Women Safety Analytics – Protecting Women from safety threats

**PS No-** SIH1605

**Team Name-** Skill Issue

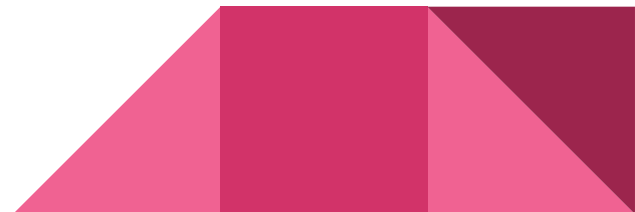
## **Team Members-**

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# UNDERSTANDING THE PROBLEM

- 01 With increasing incidents of harassment and violence against women in public spaces, there is **an urgent need for a reliable and proactive safety solution.**
- 02 Current public safety measures **lack the integration and immediacy** required to address threats effectively.
- 03 **Women need accessible tools** that empower them to take control of their safety.



# 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.



# USER END APPLICATION

- The ProtecTech app comes with a **user friendly UI** built keeping in mind the utility in situations requiring immediate action.
- Upon Creating an account on the application user can access various features of the application such as-
  - ❖ **Gesture enabled Alert feature.**
  - ❖ **Gesture-Based SOS Activation**
  - ❖ **Real-Time Location Tracking**
  - ❖ **Audio Recording and Analysis**
  - ❖ **Emergency Contacts Notification**



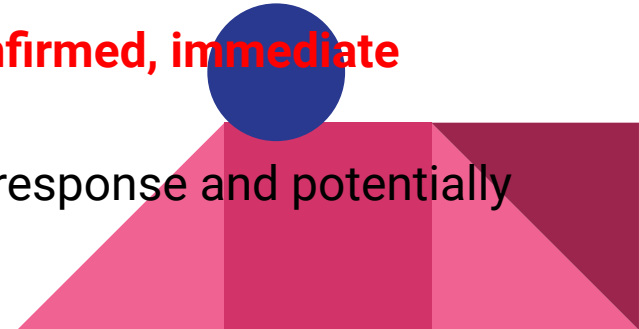
# Gesture enabled Alert feature

- Designed **for situations where the user feels threatened** but is not in immediate danger.
- On performing a pre-defined simple gesture an alert is raised and **sends a notification to a select group of people** deemed close to the user along with the live location.



## Gesture-Based SOS Activation

- The SOS feature is for situations where the **user is in confirmed, immediate danger.**
- Sends an **urgent alert to the police CRM**, prioritizing the response and potentially triggering nearby cameras for live monitoring.



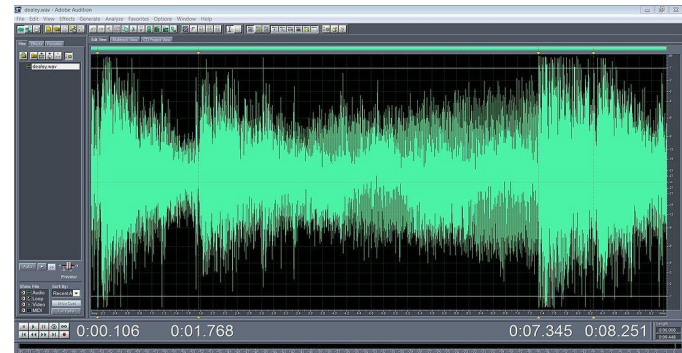
# Real-Time Location Tracking:

- Upon activating an alert or SOS, the user's **real-time location is shared with the police** via GPS.



# Audio Recording and Analysis:

- The application automatically starts recording audio once an alert or SOS is triggered.
- Audio is then analyzed using NLP** to determine the level of danger based on keywords, tone, and context.



# POLICE CRM SOFTWARE

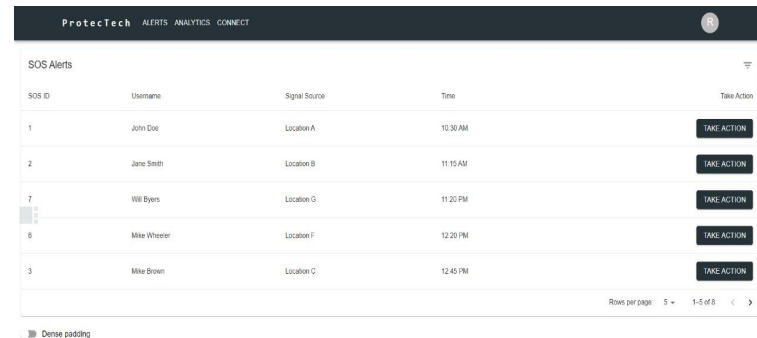
- Provides **a centralized platform for the law enforcement authorities** for carrying out quick action in emergency situations.
- Various features of the application are-
  - ❖ **Centralized platform to manage and respond to alerts and SOS.**
  - ❖ **Location tracking functionality to track the location of alerts.**
  - ❖ **CCTV Integration and Monitoring**





# Real-Time Alerts Dashboard

- A **comprehensive view of all active alerts and SOS** signals, prioritized based on the level of threat.
- Each alert includes detailed information such as the **user's location**, the **time of activation**, and the **type of alert** (gesture-based or SOS).



The screenshot shows a web application interface for 'ProtecTech' with a dark header containing 'ALERTS', 'ANALYTICS', and 'CONNECT'. The main content area is titled 'SOS Alerts' and features a table with columns for 'SOS ID', 'Username', 'Signal Source', and 'Time'. There are five rows of alert data, each with a 'TAKE ACTION' button. The interface also includes a 'Rows per page' dropdown set to '5', a '1-5 of 5' indicator, and a 'Dense padding' toggle.

SOS ID	Username	Signal Source	Time	Take Action
1	John Doe	Location A	10:30 AM	TAKE ACTION
2	Jane Smith	Location B	11:15 AM	TAKE ACTION
7	Will Evers	Location C	11:20 PM	TAKE ACTION
6	Mike Wheeler	Location F	12:20 PM	TAKE ACTION
3	Mike Brown	Location G	12:40 PM	TAKE ACTION

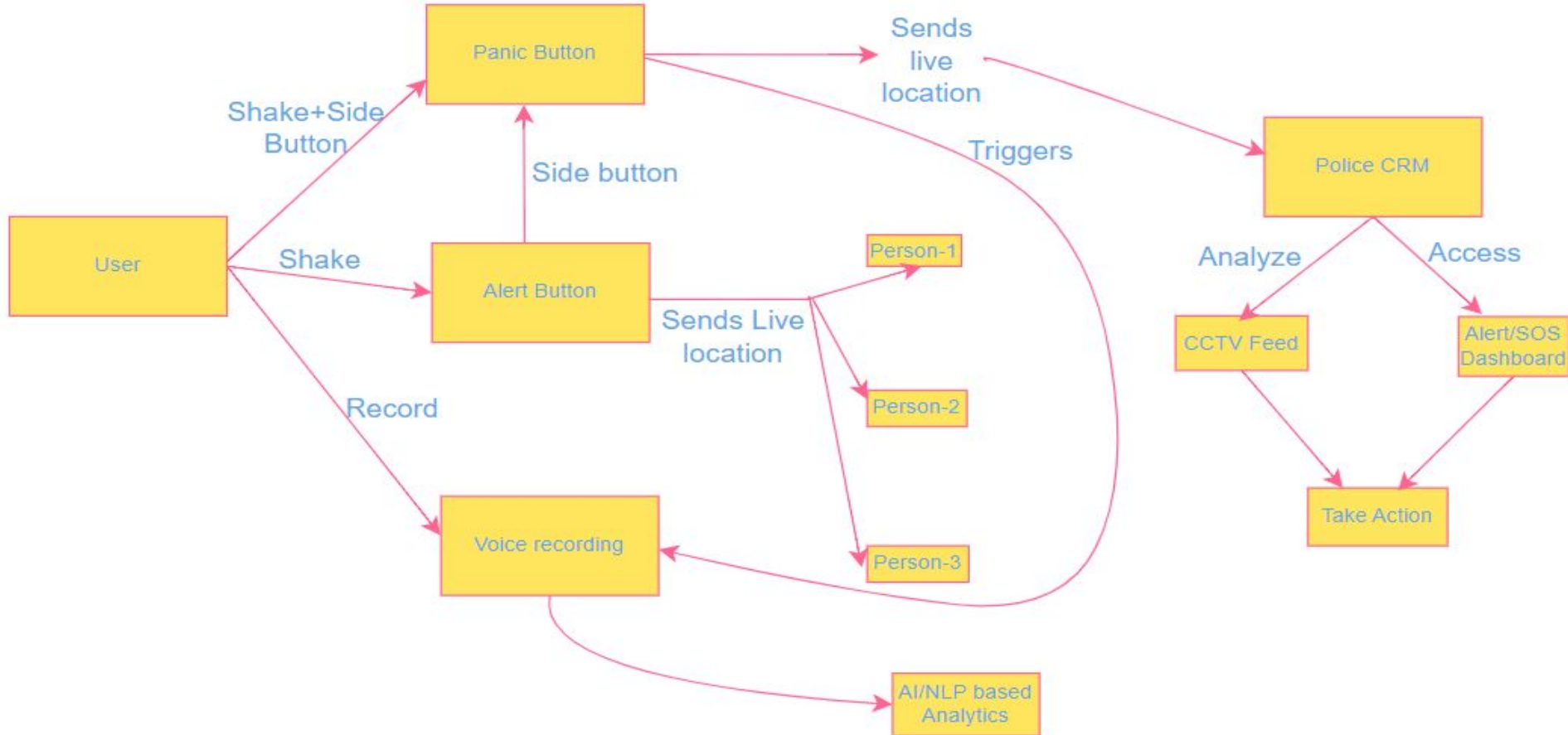
## Integrated CCTV Monitoring

- **Automatic linking of nearby CCTV cameras to active alerts**, allowing officers to visually assess the situation in real-time.
- Enables **quick verification of the incident** and aids in decision-making.





# APPLICATION ARCHITECTURE



# TECH STACK USED

- React Native
- React JS
- Node JS
- Python

