***KKR AND KSR INSTITUTE OF TECHNOLOGY AND SCIENCES***

***Department of Computer Science and Engineering-2nd Year***

***Submitted by: Team 64***

***Team Members:***

1. ***SD.Modhinbi***
2. ***SK.Muskan***
3. ***K.Siri Vennela***

***4.K.Durga Priya***

***5. NB Jahira***

SheAstra : “AI-Powered Prompt-Based Safety Companion App for Women”

## ****1. Introduction:****

In today’s world, women’s safety has become a major concern, especially when traveling alone during late hours or in unfamiliar places. Despite having smartphones and access to technology, many women still struggle to find quick help in emergencies. Fear and panic often make it difficult to make a call or send a message in time.

Technology can play a vital role in building safer environments by providing quick communication, live location tracking, and AI-based assistance. This project focuses on developing a **Women’s Safety App** that uses AI tools and low-code platforms to ensure help is always just one tap away.

**2.Problem Statement:**

**The main problem** we identified is ***women’s safety***, especially when they travel alone at night. Many women feel unsafe because, in emergencies, they cannot easily call for help due to panic, fear, or lack of internet connection. Most existing safety apps depend on manual SOS buttons or network access, which might not work when needed the most.

**The negative impact of this problem** is very serious — women often face harassment or danger without being able to alert anyone quickly. This affects their confidence, mental peace, and limits their freedom to move safely in society.

**To solve this issue**, we are developing \*SheAstra\* — an AI-powered, prompt-based women’s safety app. It responds to simple voice commands or gestures like shaking the phone to send instant SOS alerts, share live location, and even send offline SMS when there’s no internet. It also includes features like fake calls and route tracking for extra safety.

**The positive impact** of our solution is that it gives women a sense of security and confidence, knowing help is always just a word or gesture away. It reduces emergency response time, improves safety awareness, and encourages independent movement without fear.

## ****3.Proposed Solutions:****

The app provides an **all-in-one safety platform** for women. Key solutions include:

* **SOS Emergency Button**: Instantly sends alerts with live location to trusted contacts.
* **Live Location Tracking**: Friends, family, or authorities can monitor the user’s route until she reaches safely.
* **Shake / Voice Activation**: SOS can be triggered by shaking the phone or saying a simple voice command like “Help Me.”
* **Nearest Police & Helpline Locator**: Quick access to nearby police stations and emergency helpline numbers.
* **Safe Route Finder**: Recommends safer paths using map data, well-lit areas, and crowd density.

This combination ensures **quick response, real-time monitoring, and proactive prevention** in emergency situations.

**4.Technologies or Stack Used:**

To build the app efficiently and effectively, the following technologies are recommended:

* **Frontend**: Flutter (for Android and iOS support, fast development)
* **Backend & Database**: Firebase Realtime Database and Firebase Cloud Messaging (for instant updates and notifications)
* **Location Services**: Google Maps API for live tracking and route suggestions
* **AI/Smart Features**: TensorFlow Lite or Google ML Kit for voice recognition and motion detection
* **Communication**: Twilio or Firebase for sending SMS/notifications to contacts
* **UI/UX Design**: Figma for prototyping screens and user interface

This tech stack ensures **real-time performance, ease of development, and scalability**.

## ****5.Expected Outcomes:****

* **Enhanced Safety**: Women can alert contacts immediately in any emergency.
* **Peace of Mind**: Friends and family can monitor live location during travel.
* **Quick Response**: Automated alerts and location sharing enable fast help from authorities or trusted contacts.
* **User-Friendly Experience**: Simple, one-touch operation reduces panic in critical situations.
* **Community Awareness**: Optional reporting features can highlight unsafe zones, helping the wider community.

## ****6.Unique Value Proposition:****

* **All-in-One Safety Solution**: Combines SOS alerts, live tracking, and emergency contact notifications.
* **Instant Action with Minimal Effort**: Shake or voice command triggers safety measures instantly.
* **Modern, AI-Powered**: Uses AI tools for voice recognition and motion detection, making it smarter than traditional apps.
* **Localized and Global Appeal**: Suitable for Indian users while maintaining a clean, international design.

## ****7.Project Planning or Workflow:****

1. **User Registration** – Secure signup with email or phone number.
2. **Trusted Contacts Setup** – Users add family/friends for alerts.
3. **Emergency Activation** – SOS via button, shake, or voice.
4. **Location Sharing** – Real-time tracking sent to contacts & optionally nearby volunteers.
5. **Route Analysis** – App suggests safest paths using map and safety data.
6. **Alert Delivery** – Notifications, SMS, or call to contacts and emergency services.
7. **Feedback & Reporting** – Users can report unsafe areas to improve community safety.

This workflow ensures **fast, reliable, and actionable safety support** at every stage.

## ****8.One-Line Pitch:****

**“SheAstra: Empowering women to stay safe anytime, anywhere, with just one tap.”**

App:

https://shastra-00ee3a6b.base44.app

## ****THANKYOU****