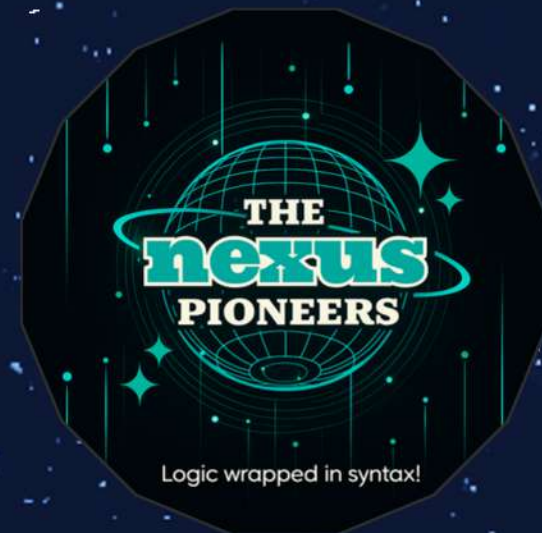




# HackOrbit 2025

*Team - The Nexus Pioneers*





# THE PROBLEM: SAFETY ISN'T OPTIONAL



*Theme: Women's Safety and Wellbeing through AI & Technology*

## **Problem Statement:**

Women continue to face safety risks in public spaces, especially in dimly lit, low-surveillance, and less crowded areas. Existing safety apps often fall short, addressing only isolated concerns while overlooking critical aspects like real-time emergency detection, identity verification, and mental well-being.





# SOLUTION STATEMENT



***“78% of Indian women feel unsafe using public transport after dark.”***

***– Ola Mobility Institute, 2020***

**This fear limits freedom, mobility, and opportunity.**

**Femigo empowers women with safety, confidence, and control — anytime, anywhere.**

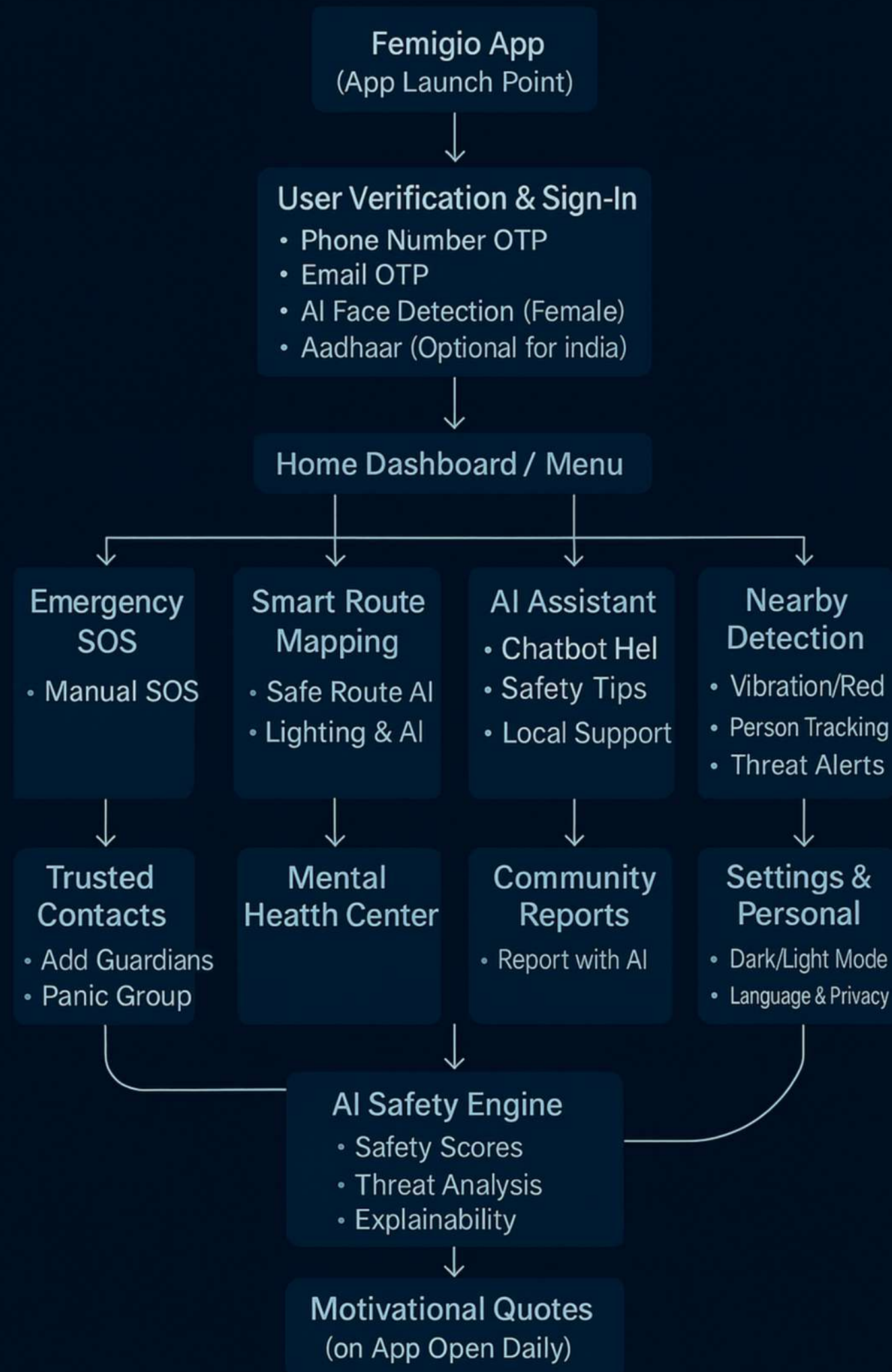
- **AI-based identity verification with live camera check to ensure female-only access**
- **Real-time emergency detection using voice, motion, and theft pattern recognition**
- **Smart route mapping with safety-based path recommendations and AI predictions**
- **Built-in mental health support and access to emergency counseling**
- **Personal AI assistant for guidance, voice-triggered SOS, and safety alerts**





# FUNCTIONAL FLOWCHART

This flowchart outlines the complete user journey and feature interaction within the Femigo safety app, starting from onboarding to AI-powered safety analytics. Each module is designed to enhance user safety and accessibility in real-time.





# DETAILED APP ARCHITECTURE



The flowchart represents the structured user flow in the Femigo safety app:

- **User Verification & Sign-In:** Multi-layered authentication including OTP, AI facial recognition, and Aadhaar integration.
- **Dashboard Access:** A central hub linking all core functionalities like Emergency SOS, Route Mapping, AI Assistance, and Nearby Detection.
- **Safety Features:** Tools like Mental Health Center, Community Reports, and the AI Safety Engine ensure comprehensive support.
- **Personalization Options:** Users can manage privacy, guardianship, and interface modes via the Settings module.

The design ensures user-centric navigation, emphasizing real-time safety, privacy, and mental wellness support.



# FEATURES AND NOVELTY

- Aadhaar-based verification may exclude users without valid ID
- Requires stable internet — limited usability in offline/low-network areas
- Potential privacy concerns due to continuous camera, mic, and location access
- AI gender detection accuracy may drop in poor lighting conditions
- High battery usage from GPS and background services
- Currently lacks full accessibility features for differently-abled users



*Femigo*

*An AI-powered Personal  
Safety Navigation App*









# DRAWBACKS

- No voice-triggered SOS or sound-based emergency detection
- Aadhaar verification may exclude users without valid Aadhaar
- No built-in mental health counseling or professional support
- Requires internet — limited use in offline or low-network areas
- AI gender detection can fail in poor lighting or unclear images
- Heavy battery usage due to GPS and camera access
- Privacy concerns over constant permissions (camera, location, mic)
- No theft/snatching detection implemented yet
- External APIs dependency — app may break if APIs go down or change
- Accessibility for differently-abled users still limited



# TEAM MEMBERS & TECHNOLOGIES USED



- **Arpit Yadav**  
(manages frontend)
- **Aastha Pyasi**  
(manages prototype/design)
- **Hiral Goyal**  
(manages backend and presentation)
- **Anantika Soni**  
(manages presentation and APIs)

- **Frontend:** Flutter
- **Backend:** Firebase
- **Database:** Firebase Firestore for flexible data storage
- **Authentication:** Firebase Auth for secure user login
- **APIs:** RESTful API for client-server communication
- **Hosting:** AWS for scalable cloud deployment





*Femigo isn't just an app — it's a step toward fearless  
mobility and everyday safety for every woman.  
Thank you for believing in our mission.*

**~Thank you**