

**PROJECT TITLE: [GUARDIAN ANGEL AI-
POWERED WOMEN SAFETY PLATFORM]**

TEAM NAME : TECH TURTLES

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“SHOW. DON’T TELL. BRING YOUR IDEA TO LIFE!”

“YOUR SAFETY. YOUR POWER.”

PROBLEM RECAP & OBJECTIVE

❑ VALIDATED PROBLEM

Women face rising offline threats (harassment, unsafe zones) and online threats (deepfakes, phishing, identity abuse). Current safety apps are **slow**, need phone unlock, and lack AI or offline SOS.

❑ OBJECTIVE

Build a wearable AI companion that merges real-time emergency response, cyber-threat defence, and offline resilience.

❑ EXPECTED OUTCOMES

- Reduce response time (< 5 s SOS trigger).
- Detect AI-driven digital threats.
- Empower women to move freely and safely.



PROTOTYPE OVERVIEW

❑ **WHAT IT DOES** → Smartwatch Detects SOS Press / Voice Command → Sends GPS + Biometric Verified Alert → Notifies Contacts + AI Shield Analyzes Cyber Risks.

❑ **TECH STACK**

- Hardware: ESP32, GPS, Fingerprint, BME680, MPU6050, MAX30102
- Backend: Fastapi + Firebase + Twilio SMS
- Frontend: React Native (App), React.Js (Dashboard)
- AI Layer: Hugging Face & Openai (Apis)

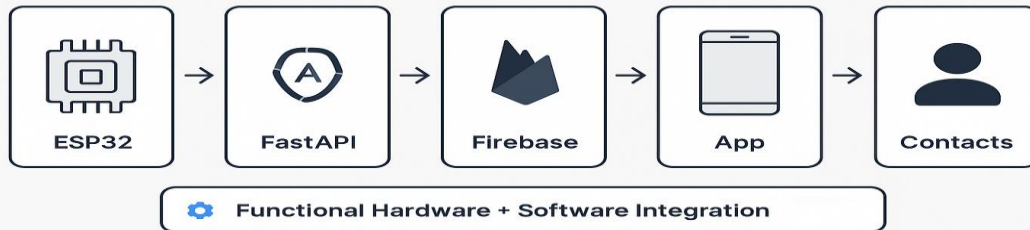
❑ **PROTOTYPE TYPE** → Functional Hardware + Software Integration

❑ **ARCHITECTURE FLOW DIAGRAM:**

Prototype Overview

Functional Hardware + Software Integration

- Smartwatch detects SOS press / voice command
- sends GPS + biometric verified alert
- notifies contacts + AI shield analyzes cyber risks



USER EXPERIENCE & IMPACT

❑CONTENT

- User wears smartwatch
- In danger, presses SOS or says “Help me.”
- Device verifies fingerprint and sends location.
- Backend notifies family + analyzes cyber threats.
- Dashboard shows real-time alerts.

❑UNIQUE INNOVATION

- Works offline (SMS fallback)
- Combines physical + digital safety
- Biometric security to avoid misuse

❑NEXT STEPS

- Add Deepfake & Voice Harassment detection
- AI Safety Coach module



SCREENSHOTS & WIREFRAMES

