SAFEHER: AI-POWERED WOMEN SAFETY PLATFORM

- A REAL-TIME HARASSMENT REPORTING & PREVENTION SYSTEM

TEAM DETAILS

- *GANESH S – 2022115035 – IT –7305900924*

INTRODUCTION

SafeHer is an innovative AI-powered platform designed to empower women with immediate access to help during unsafe situations. Our solution combines cutting-edge technology with community support to create a comprehensive safety ecosystem that not only responds to incidents but also helps prevent them through data-driven insights.

PROBLEM STATEMENT

- **PS-11 Women harassment reporting platform**
- Many incidents of harassment and violence against women go unreported due to fear of retaliation or lack of a quick reporting mechanism, making it difficult for authorities to respond in time and for victims to seek help.Develop an AI-powered platform that allows women to report harassment or unsafe situations in real-time through voice commands, gestures, or a panic button. The platform will be integrated with location tracking, and when triggered, it will immediately send the user’s location to trusted contacts or emergency services. It will also include a feature for anonymously sharing experiences of harassment, contributing to crowd-sourced safety maps that highlight dangerous areas based on user reports.

WHY I CHOSE THIS STATEMENT?

- 81% of women have experienced some form of sexual harassment in their lifetime

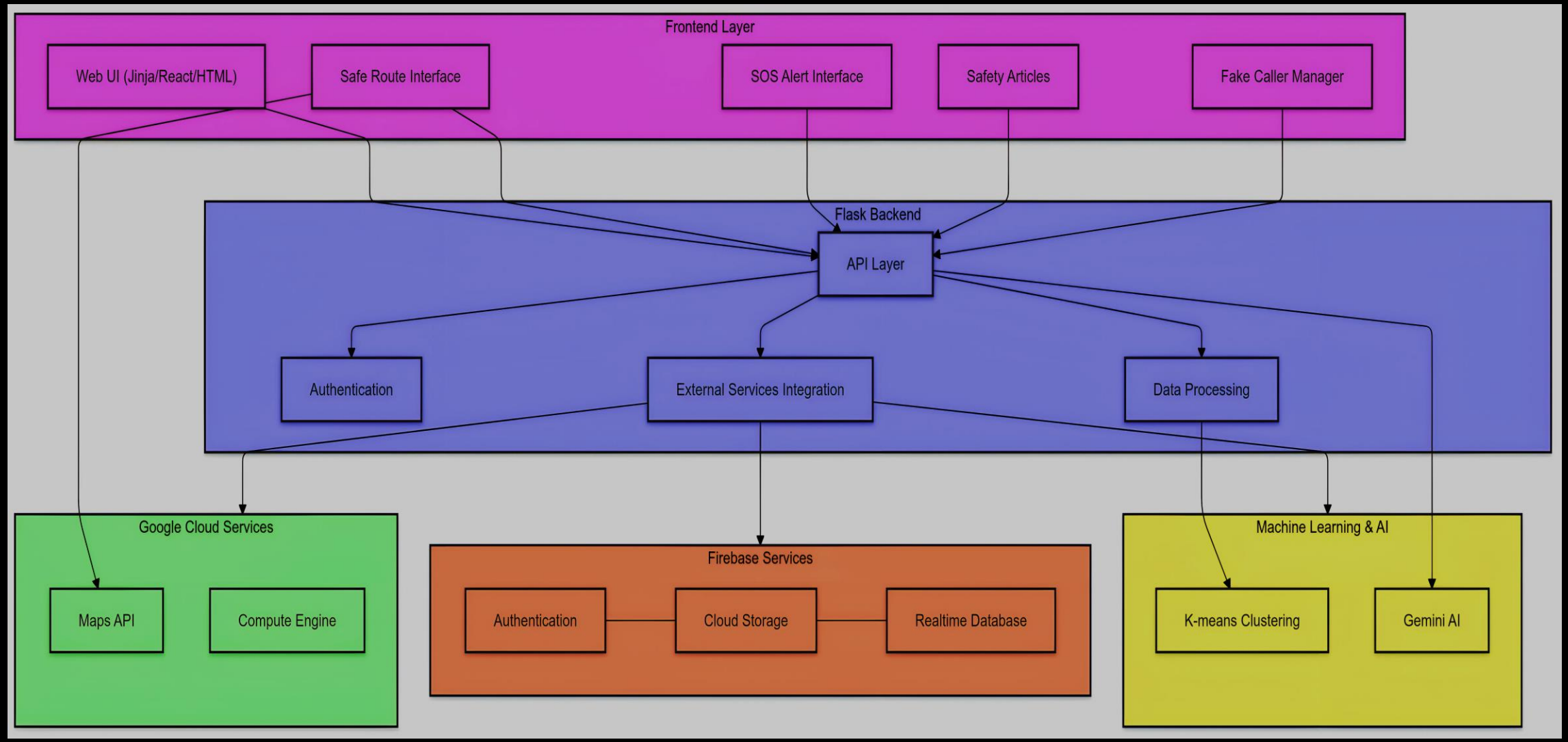
WHY I CHOSE THIS STATEMENT

- Average response time for emergency services: 15-20 minutes

WHY I CHOSE THIS STATEMENT

- 68% of women feel unsafe in public spaces

ARCHITECTURE



TECH STACK

Front end	Back end	AI/ML components
• React.js/Flask Templates • Material UI/Bootstrap	• Flask (Python) • JWT Authentication • RESTful APIs • WebSocket for real-time features	• Voice Recognition (TensorFlow) • Gesture Recognition • K-means Clustering for Safety Maps • Google Gemini AI for Natural Language Processing

PROCESS AND INNOVATION

Innovation:

- Collection of tasmac data from map API
- Clustered nearby tascmac locations (different clustered)
- Implemented via kmeans clustering
- Identified Risk scores and generated a safe route based on user origination and destination points

- Sos button – fetch current location, updates every 5mins to the database
- Input origination and destination – kmeans clustering – safe route
- Contact management – articles etc . . .

Contact here!

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