PROJECT TITLE – ACCIDENTAL INTELLIGENCE NAVIGATOR

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INTRODUCTION

This project aims to enhance road safety by providing real-time alerts about nearby accident-prone or hazardous areas. Using GPS and live data, the app detects recent accidents, sharp turns, and bad weather like rain. It notifies users through push notifications and maps to help them avoid risky zones and take safer routes. The Android/iOS app ensures timely awareness, reducing the chances of accidents, traffic delays, and emergency response issues.

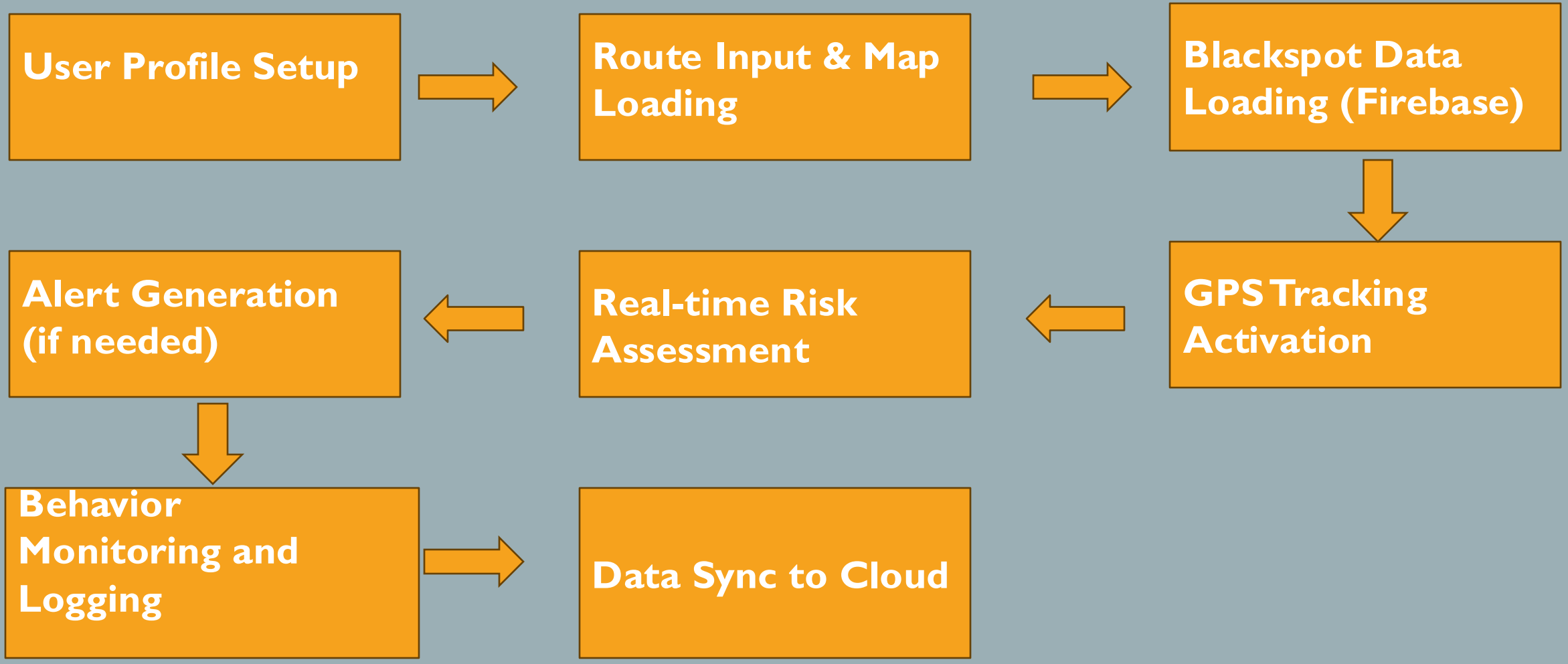
OBJECTIVES

1. To detect accident-prone and recently reported accident areas using real-time location data.
2. To alert users through push notifications when they are near hazardous zones.
3. To provide early warnings about bad weather conditions like rain and sharp turns.
4. To reduce the risk of accidents, injuries, and traffic delays through timely alerts.
5. To enhance road safety and driver awareness using GPS and weather data integration.
6. To develop a user-friendly Android/iOS app for real-time safety notifications.

METHODOLOGY

1. Collects driver info (age, vehicle type)
2. Displays route using MapKit/Google Maps
3. Shows color-coded accident risk zones
4. Sends real-time alerts near blackspots
5. Uses AI to predict accident risk
6. Adjusts risk based on live weather
7. Shows live risk score (0–10)
8. Monitors driving behavior (speeding, braking)
9. Delivers alerts via voice, vibration, and screen
10. Allows users to report blackspots

WORK FLOW


User Profile Setup
Route Input & Map Loading
Blackspot Data Loading (Firebase)
GPS Tracking Activation
Real-time Risk Assessment
Alert Generation (if needed)
Behavior Monitoring and Logging
Data Sync to Cloud

CONCLUSION

This project successfully demonstrates how real-time location and weather data can be used to alert users about accident-prone areas and hazardous road conditions. By providing timely notifications, the app improves driver awareness, helps prevent accidents, and promotes safer travel. It offers a practical solution for enhancing road safety through smart technology.