Smart India Hackathon 2025

SMART INDIA HACKATHON 2025

Problem Statement ID 2920

Problem Statement Title Real-Time Public Transport Tracking for Small Cities

Theme Transportation and Logistics

PS Category Software

Team ID 0000000

Team Name For See To Be

Problem Statement

Commuters in small cities face problems with uncertainty, delays, and overcrowding in public transportations due to the gap between the simple, reliable, real time tracking solution outcome.

Competitive Audit

Available | Partial | N/A

Features	Chalo	PRTC	Moovit	Where is my bus
Live Bus Tracking	Available	Available	Available	Available
ETA Prediction	Available	N/A	Available	Available
Digital Ticket	Available	N/A	Available	N/A
AI Call Agent	N/A	N/A	N/A	N/A
Offline Mode (SMS)	N/A	N/A	N/A	N/A
Crowd source Updating	N/A	N/A	Partial	N/A
Safety and SOS	N/A	N/A	N/A	N/A
Accessibility (Voice)	N/A	N/A	N/A	N/A
Predictive Scheduling (AI)	N/A	N/A	Available	N/A
Hyper Local Language	N/A	N/A	Partial	N/A
Time Countdown (Stop)	N/A	N/A	N/A	N/A
Alarm Reminder	N/A	N/A	N/A	N/A

Safar Namma Safar Namma Safar Namma Safar Namma Safar Namma

Primary Overview

Commuters face unpredictable bus timings, overcrowding, safety concerns, and long delays gets worsen by the sudden weather changes and festivals season while existing travel apps are confusing, force the vulnerable groups to rely on coping strategies instead of the features like real time GPS, seat availability, and stop guidance, is assist.

Environment Situation

Stakeholders (BUS)

Pain Points

1. Long waits and anxiety among commuters are caused by unpredictable bus arrival times.
2. Buses that are overcrowded put passengers' safety and comfort at risk, particularly for women.
3. There is little use of the current transportation apps because they are unclear and unreliable.
4. Absence of real-time information on bus delays, crowding, and location.
5. Peak periods, holidays, and inclement weather do not cause services to dynamically adjust.

Solution Overview

Safar Namma is an intelligent public transportation system that offers accessibility, safety features, and real-time transit updates. Through the integration of technology and user-centered design, it enhances commuter experience, supports marginalized communities, and promotes sustainable urban mobility by improving predictability, inclusivity, and reliability.

Tech Stack

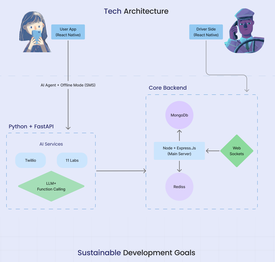
Frontend
- React Native

Backend
- Nodejs
- Fast API
- Python
- Mongodb

FrameWorks
- Flask
- Expo
- Expo Notifications
- Twilio

Infrastructure & Database
- Mongo db
- Redis
- Aws

Tech Architecture



Sustainable Development Goals

8 DECENT WORK AND ECONOMIC GROWTH

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

11 SUSTAINABLE CITIES AND COMMUNITIES

13 CLIMATE ACTION