

Naan Mudhalvan – IoT Project



Project Name: Traffic Management

Project Description: Use IoT devices and data analytics to monitor traffic flow and congestion in real-time. This information can be accessible on a platform or through mobile apps, aiding commuters in choosing optimal routes.

Team Name: Proj_224783_Team_2

Idea Name: GPS manager

Team Member Details

Member 1 Name: Praajeet M R

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Mentor Name: Pratheeba R S

Evaluator Name: Jeba Sundar

Developer Perspective



Description:

- Tracker installed in the vehicle relays real-time location to the database
- Users can log into the site to manage their tracker(s) by creating an account
- Google maps API is used to create a map view with additional traffic layer data
- Allows multiple vehicles to be monitored effectively in a remote manner

Tech stack:

- Wokwi
- HTML, CSS, JS
- Firebase
- ESP32 with GPS component
- Google Maps API

Consumer Perspective

Model:

- Base tier – Use 1 device with free access to the site indefinitely
- Subscription – Connect upto 5 different devices for an yearly subscription fee
- Enterprise – Customisable no. of trackers with advanced admin dashboard

Requirements:

- Latest version of any popular browser
- Consent for allowing us to store your data
- Stable internet connection to ensure reliability