

## ANDROID-POWERED FLEET TRACKING



## Trucking companies need to track their fleets

Trucking fleet managers need to monitor and track their fleets, alllowing them to ensure their truckers are

- · driving to the correct locations
- · not stopping for excessive amounts of time
- · driving in an appropriate manner, at steady and appropriate speeds

droid Application

A tracking system which provides this information will allow trucking companies to minimize losses and operate efficiently.

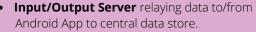
Fleet Tracking System

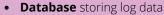
Sends logged data

update fleet data









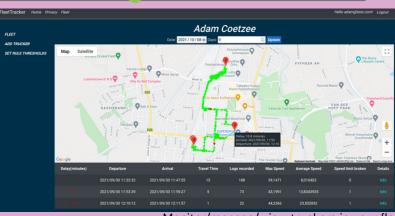
 Web Application allowing managers to manage and view log data of their fleets, ensuring truckers behave correctly

## **Design/Implementation Approach**

- Hypothesize high-level architecture and main components, and choose suitable technologies
- Design software classes using good design principals in sub-system design, achieving modular scalable software systems
- Incremental development and testing, using version control







VIEW TRIP - 42 logs: 10/18/2021 2:10:23 PM - 10/18/2021 2:17:16 PM
Time plot

Monitor/manage/ view truckers in your fleet and check their activity

arses log data

Database

## **Conclusions**

- The tested solution successfully logs the required variables to a satisfactory accuracy (location within 20 meters)
- I/O server and web application enjoy 100% uptime. Android application performs well on Android 10
- Truckers can use **one device** to perform all activities dependent on software, including stock tracking, communication **and tracking**, appealing as a **budget-conscious** solution
- · Truckers must operate their devices properly, and ensure full charge and constant running of the application
- · Further improvements to robustness and up-time can make this an interesting solution to tracking.