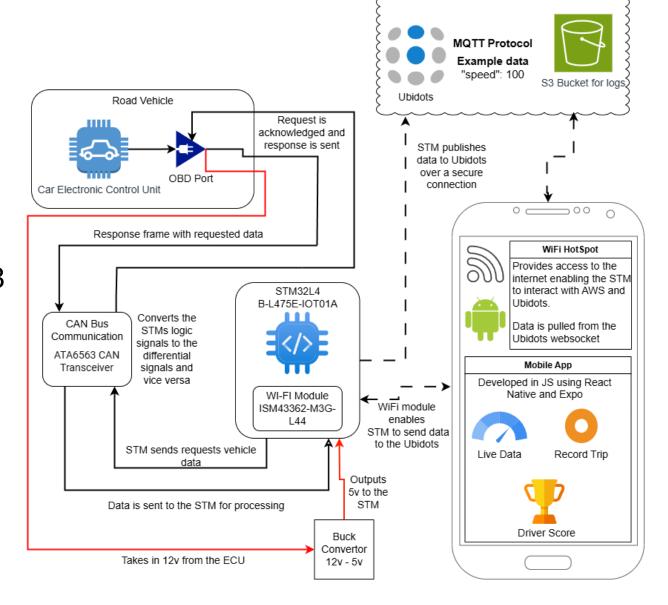
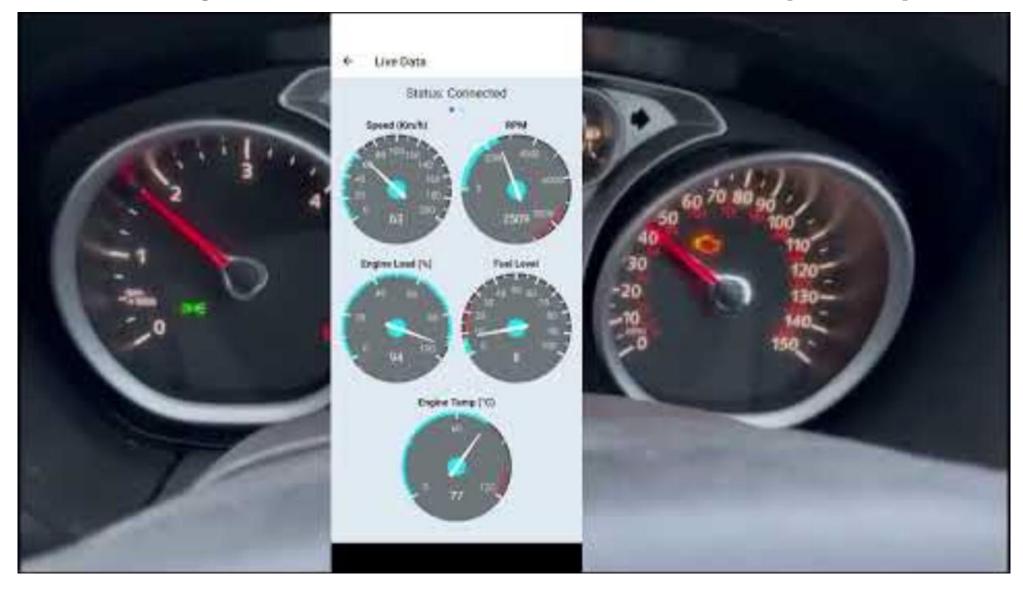
DriveWise

Overview

Personal blackbox for your car
Live data retrieved from ECU
Uploaded to Ubidots
Displayed on mobile app
Data is recorded and stored in S3
Logs are viewed in app
A driver score / feedback is calculated when requested



Project Demonstration (Car)



Research

AWS

S3

EC2

Concerns

Driver Feedback

Scoring

Advice

Processing

Mobile App

Expo

UI/UX







WebSockets

Ubidots
Data stream
Secure

TLS

Storing the cert
Connecting with TLS

Technology/Skills

Hardware

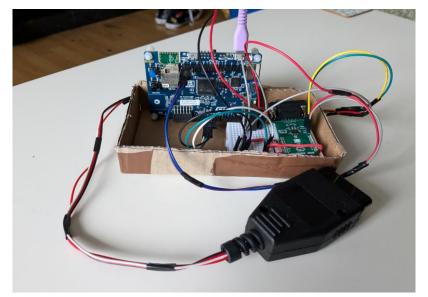
STM32-L475E-IOT01A
OBD-II Connector
ATA6563 / SN65HVD230
DC-DC Buck Converter
OZEN ECU Multi Simulator

Software / Services

STM32CubeIDE
Ubidots (MQTT Broker)
PuTTY
Visual Studio Code
AWS S3/EC2 (Storage/Server)

Skills

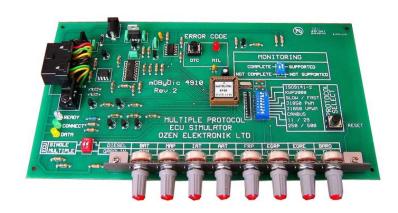
C/JS
UI/UX
Prototyping
Debugging
Project Management



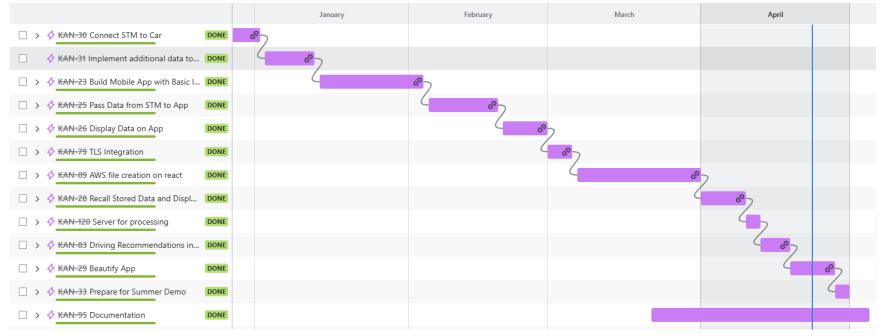








Project Management

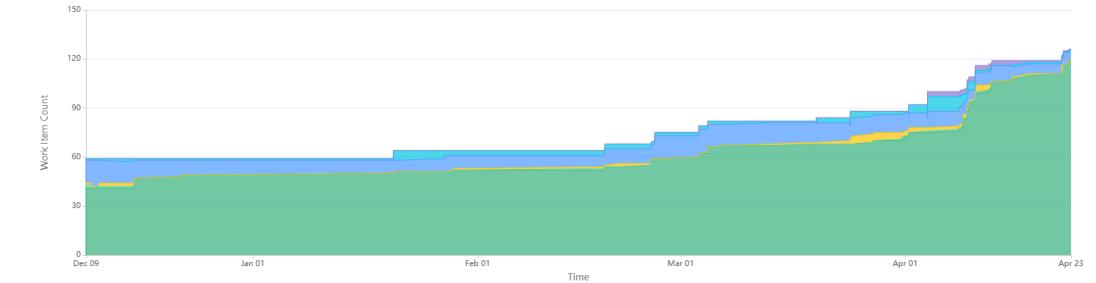


Tool: JIRA

Methodology: Kanban

Cumulative Flow Diagram

- Documentation: Purple
- Backlog: Light Blue
- To Do: Dark Blue
- In Progress : Yellow
- Done : Green



Connection Demo

