Weekly Progress Report: 20 - 26th Oct

CS413 – Group 3

Putting together the price list in the lab

Deciding on Device functionalities, what we should aim for and what should be additional functionality.

# Description

raspberry pi that connects to a car via OBD2

and have some sort of interface so the user can see stats about their car

* current mph,
* mpg,
* 5fuel intake
* gps that tracks the cars movement so you can see where the car has been
* where and the status of the car at any point in the journey.

Connect it to the car, go for a drive get some data together, unplug, connect to network, submit results to web server.

I already have the OBD2 to USB connector and there is a library already available for OBD2 stuff for python (https://github.com/martinohanlon/pyobd). Mark also has experience building iPhone apps and already has an apple dev membership so that might come in handy too

1. Record journeys in car with GPS (attach to raspberry pi usb)
2. Dashboard online service (upload to web server)
3. Economic Driving

* Braking too harshly (sudden decrease of speed)
* could tell you if you are revving too much.
* feedback at the end on how you could drive more efficiently

1. How much fuel you were using
2. Can check detailed information like pistons
3. Compare friends results (back end, web server)
4. Real time display what we have on the raspberry pi

# Additional Functionality

**FM Transmitter**

* Feedback through the car speakers

Let you know if there is something wrong with the car

Separating different drivers in one session, having a button you press on the

# Discarded ideas

Possibly reroute other cars depending on where you are

Speed cameras coming up

Knowing the speed limits on the road?