Device Functionality

# Core Functionality

Raspberry pi portable device that connects to a car via OBD2 and have some sort of interface so the user can see stats about their car both real-time and after the journey on a computer for more detailed information

1. Connect it to the car, go for a drive get some data together, unplug, connect to network, submit results to web server.
2. Record journeys in car with GPS (attach to raspberry pi usb)
3. Dashboard online service (upload to web server)
4. Economic Driving
   1. Braking too harshly (sudden decrease of speed)
   2. could tell you if you are revving too much.
   3. feedback at the end on how you could drive more efficiently
5. How much fuel you were using
6. Can check detailed information like pistons
7. Compare friends results (back end, web server)
8. Real time display what we have on the raspberry pi
   1. current mph,
   2. mpg,
   3. 5fuel intake
   4. gps that tracks the cars movement so you can see where the car has been
   5. where and the status of the car at any point in the journey.

# 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

# Not doing

Possibly reroute other cars depending on where you are

Speed cameras coming up

Knowing the speed limits on the road?