Architecture Document

- According to the given business the scenario case is as follow,
- Users has their own vehicles saved on DB.
- A dashboard is viewing the current status of each vehicle for customer.
- Through a second party app, we can change the vehicles status on real time while the customer is viewing.

So, our business cycle as a follow:

- User register his data.
- User register his vehicle data.
- User open his dashboard to follow his data.

On the second party:

- User enter his vehicle ID
- User Enter "yes" for engaged vehicle or "no" for disengaged.

Technical architecture:

- I've used asp.net MVC for web application
- Signal R for on Realtime requests.
- Knock out for handling the requests.
- Code first for DB Design.
- Console Application for second Party.

Setup:

- publish the local DB on your Server.
- Publish the web App on your IIS and configure the Port of site host.
- Change the port in the console application App.config for the URL of the web Api in configuration app settings.

How to use:

- Open your browser and type the url .
- Register a new user
- After login go to new vehicles from top menu .
- Add the vehicles for your own.
- Go to your vehicle dashboard .
- Now open the second part app .

- Enter your vehicle ID.
- Choose to engage or disengage
- Notice your browser , vehicle status changed.