

abstract

myCar is a collection of different software products with own development work added. In the following overview, not all components are listed, but the main ones which are explicitly configured.

Component overview

Armbian

Armbian is the OS for this project. Additional software has to be installed to work properly.

<https://www.armbian.com/orange-pi-zero/>

Install required components

DEPRECATED: obdgpslogger

The first idea was to use OBDGPSLogger ... For now I'm a little bit further. the OBD interface of choice  would be: `<label pip>pyobd` <https://pypi.org/project/obd/> `</label>`

hostapd

rfcomm

gpsd

Python3

Libraries required for the application server, installed via pip:

-  `<label bundled>configparser`
<https://docs.python.org/3.5/library/configparser.html> `</label>`
-  `<label pip>bluew` <https://nullp0tr.github.io/bluew/> `</label>`
-  `<label pip>python-wifi` <http://pythonwifi.tuxfamily.org/> `</label>`
-  `<label pip>flask` <http://flask.pocoo.org/docs/1.0/> `</label>`

-  `<label pip>`byobd <https://pypi.org/project/obd/> `</label>`

Application Server

flask

Flask is the python application server used for providing the web interface and the API to controll the myCar unit. Documentation for Flask could be found under <http://flask.pocoo.org/docs/1.0/>.

Jinja2 Templates

Jinja2 Templates implementing the Webfrontend templating system. Information could be obtained from here: <http://jinja.pocoo.org/> and the integration with flask from here: <http://flask.pocoo.org/docs/1.0/templating/>

pure CSS

Pure CSS is the CSS implementation for responsiveness and style. It is bundled and delivered with the application server. Information could be obtained from here: <https://purecss.io/>

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