

AUTO

autonomous cabs system in Poznań
simulator created by Jakub Riegel



discover on  /jakubriegel/AUTO
or get your hands on it at auto.jrie.eu

core features



- 100% electric, fully autonomous vehicles
- available 24/7
- convenience of Uber, confidence of taxi
- request cab for specific address
- all system functionality provided by computer algorithm
- humans needed only for conservation

implementation - technologies



- all back-end written in C++ with Crow, nlohmann::json, cURL and cURLpp
- deep usage of OPP and multithreading
- maps service by Google Maps
- sample front-end made in TypeScript
- running on Debian 8



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implementation – internal modules



main

system logic

vehicles data

bases data

server

Crow app
with routes
for all
services

simulator

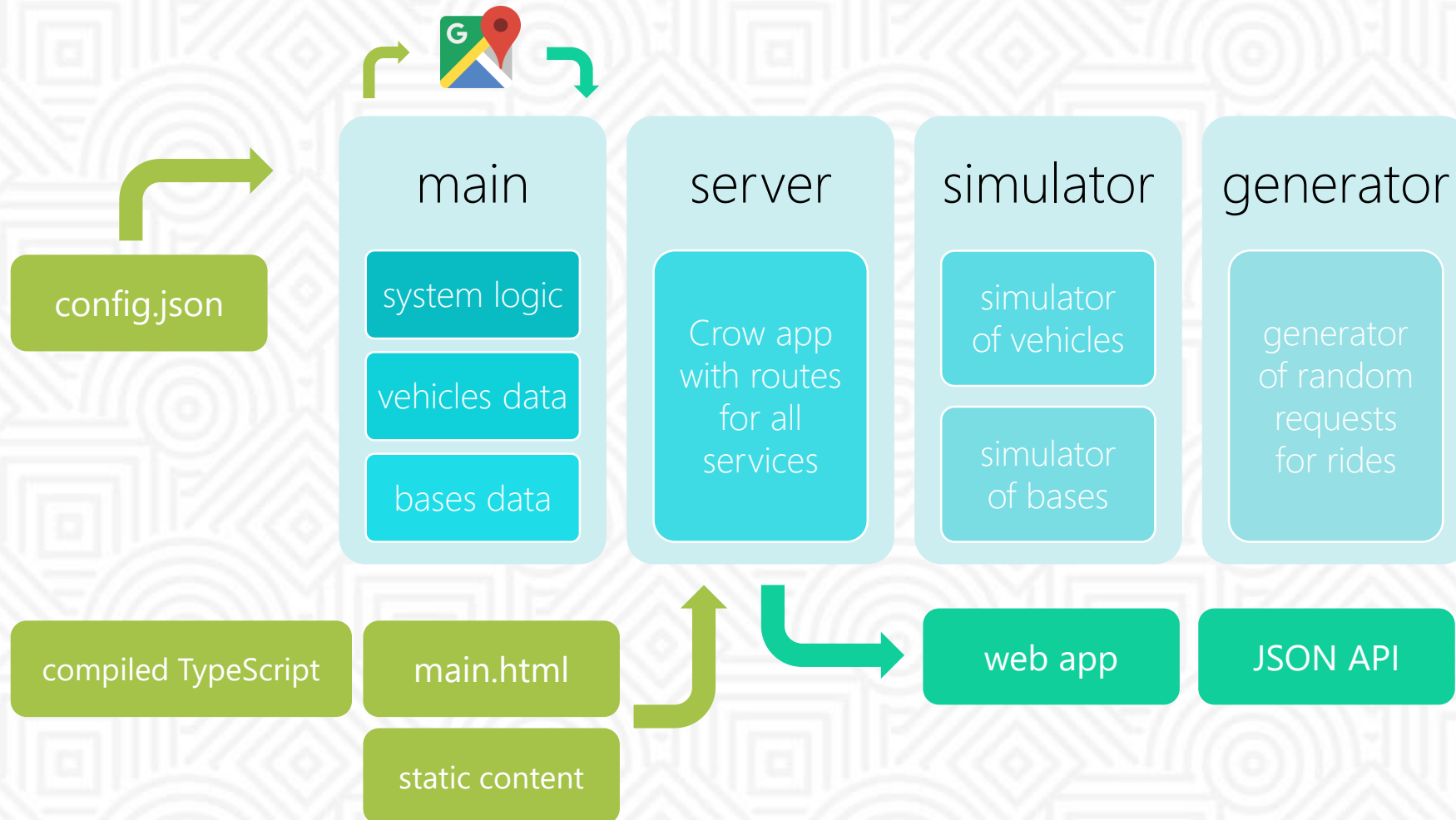
simulator
of vehicles

simulator
of bases

generator

generator
of random
requests
for rides

implementation – all modules



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