Computing in Communication Networks

Assignment #4: Vehicular Scenario Vu Anh Minh Le

June 11, 2022

1 Running with docker

1.1 Running the server

Pull the docker server by the command: docker pull minhval0307/unitn_gpstracking_server:latest
Then run the command: docker run -it -rm -d -p 8080:80 -name web minhval0307/unitn_gpstracking_server
On a web browser, access: http://localhost:8080/

To stop the container, run: docker stop web

1.2 Running the clients

There are two kinds of clients, say CARS and DRONES.

To run CARS client, run the following commands: docker pull minhval0307/publisher_cars:latest docker run -it -rm -name cars minhval0307/publisher_cars

To run DRONES client, run the following commands: docker pull minhval0307/publisher_drones:latest docker run -it -rm -name drones minhval0307/publisher_drones

To stop CARS and DRONES clients, run: docker stop cars drones

2 Running directly with application files

Access https://github.com/minhval/ComputingInComNet.git to download the application source for both server and clients.

Inside folder server/src, run index.html (by double clicking on it) to start the tracking page.

Inside folder clients/cars, run command python3 publisher_cars.py to start CARS client.

Inside folder clients/drones, run command **python3 publisher_drones.py** to start DRONES client.

Note: packages numpy and paho-mqtt must be installed before starting the clients.

3 Images on the run

Here are several images presenting the result after running the sever and the clients.

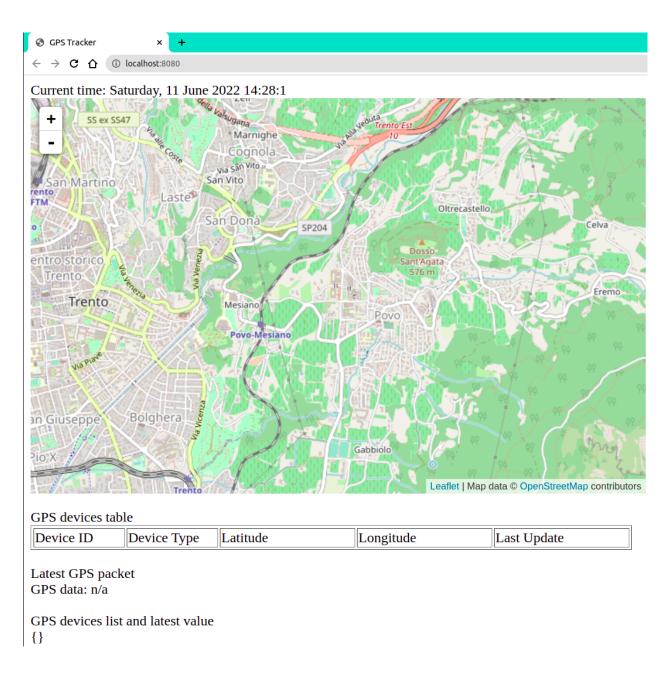


Figure 1: localhost:8080 with no data received.

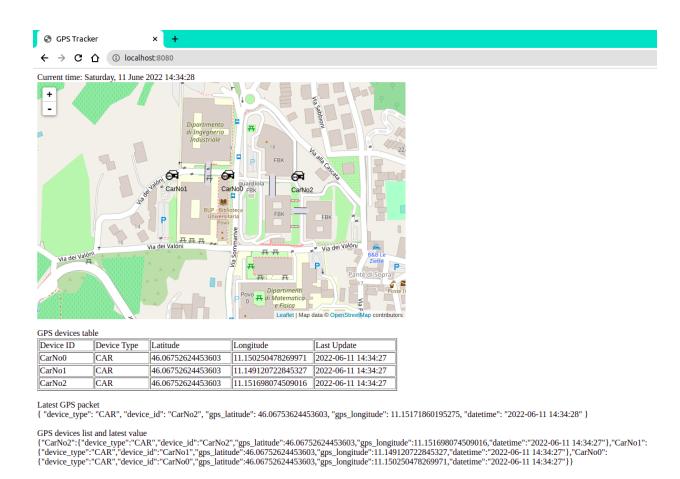


Figure 2: localhost:8080 with CARS data after a while.

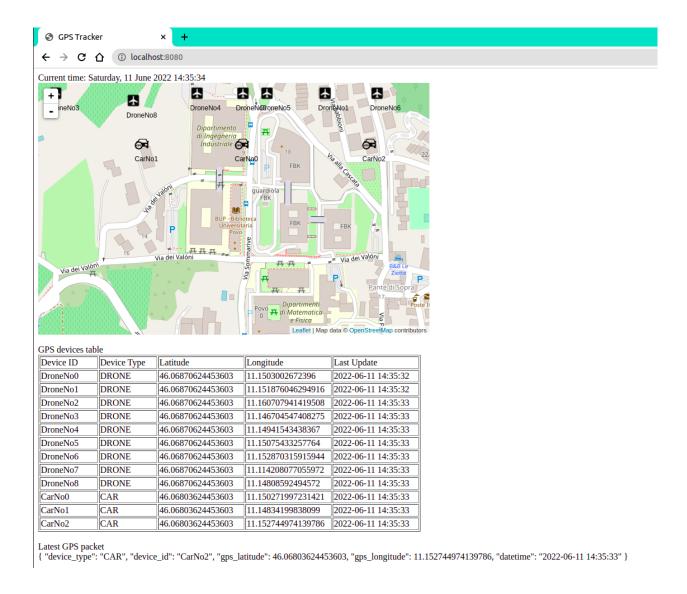


Figure 3: localhost:8080 with CARS and DRONES data after a while.