

ESILV

RDF Bikers

Web datamining & semantics



ÉCOLE
D'INGÉNIEURS
PARIS-LA DÉFENSE

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How to Install

We have here a backend and a frontend. Unfortunately, due to a lack of time and some versions issues, this web app is not deployed. So here we will detail how launch locally the web app!

First, we have a backend which use python. You just have to launch the command:

```
pip install -r requirements.txt
```

Please do not setup a python environment because it could have some issue later.

Now we have to handle our front end which use react. First, we go into the client folder.

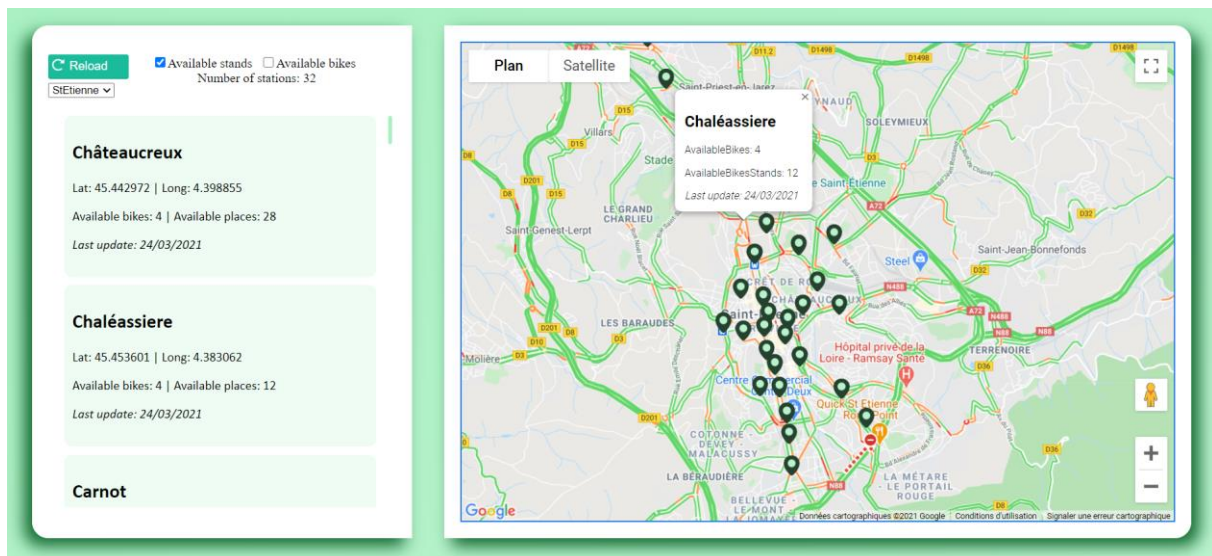
```
cd client
```

Then we install node dependencies

```
npm install
```

And finally, we launch the app!

```
npm run dev
```



How it works

Once you are on the web app, you can do many things. First you can choose a city and all the bike stations of this city will be displayed. Each station has its info and is displayed on the map. You can click on the map and see the info of the selected station (works fine for St-Etienne but a bit less for Paris where we have thousands of stations).

Then you can select just stations which have available bike or available bike stand.

A Reload button is available. When you click on it the API will be called again, the result will be transformed in RDF with JSONLD method, then RDF will be inserted in the ontology and the reasoner will be executed. It takes about 2min due to the reasoner on the high number of stations in Paris.

Finally, if you click on a station, just the stations which are less than 300m around will be displayed and if you click again you come back on all stations.

Note that filter can be cumulated. We can select for example all the available bike stations in a range of 300m. Also, just the display is actualized when we had a filter and not the map. At each moment you can check the number of "filtered" stations.

That's all, enjoy !