



Rayan Awasil

Master Data Analyse

Cours : Mongo DB

Projet MongoDB API Open Weather

Présenté par Rayan Awasil

Quelques screenshot du projet en local

Ecole Passerelle des Métiers du
Numérique

Master Data Analyse

103, avenue Arago, 92000 Nanterre

Année universitaire : 2024 – 2025

En vue de l'obtention du titre RNCP
Niv 7 Data Engineer



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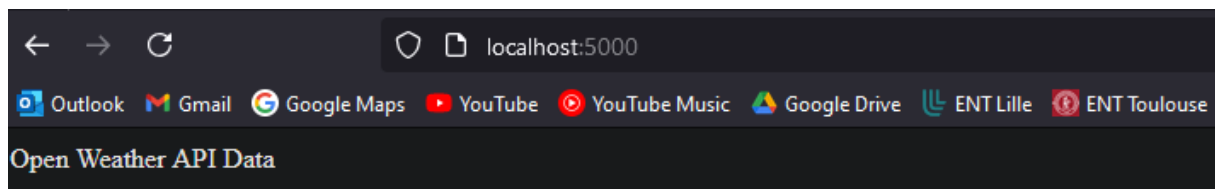


I. Run du projet en local

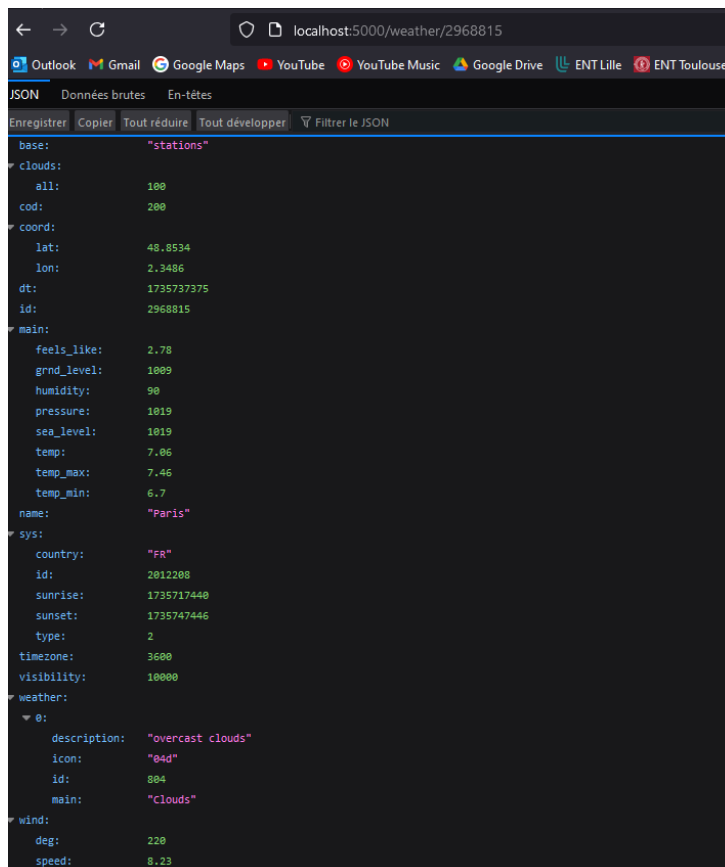
Run du code en local

```
rayan_@DESKTOP-NR96FCU MINGW64 ~/Documents/repository/projet_meteo/python (master)
$ python main.py
Souhaitez-vous interroger l'API ou sauvegarder les données dans MongoDB? (y/n): n
* Serving Flask app 'main'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
127.0.0.1 - - [01/Jan/2025 14:15:02] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [01/Jan/2025 14:15:02] "GET /favicon.ico HTTP/1.1" 404 -
```

Route flask homepage



Route flask avec une ville passée en paramètre





Docker desktop

Containers [Give feedback](#)

Container CPU usage 0.22% / 1200% (12 CPUs available)

Container memory usage 184.2MB / 15.22GB

Show charts

Search

Only show running containers

	Name	Container ID	Image	Port(s)	CPU (%)	Last started	Actions
<input type="checkbox"/>	laughing_tharp	766ba89d5d34	formationdata/projet_meteo_mongodb:latest	27018:27017	0%	4 hours ago	
<input type="checkbox"/>	busy_shirley	54b32195bb54	formationdata/projet_meteo_python:latest		0%	4 hours ago	
<input checked="" type="checkbox"/>	projetmeteo	-	-	-	0.85%	1 minute ago	
<input type="checkbox"/>	projet_meteo_python	964efab90db2	projetmeteo-main		0%	4 hours ago	
<input type="checkbox"/>	projet_meteo_mongodb	822540d90af2	mongodb/mongodb-community-server:latest	27018:27017	0.85%	1 minute ago	

- Image formationdata/**projet_meteo_python** : code python avant le docker compose (pour test)
- Image formationdata/**projet_meteo_mongodb** : base mongodb avant le docker compose (pour test)

Conteneur **projetmeteo** : docker-compose.yml

- **projet_meteo_python** : code python
- **projet_meteo_mongodb** : base mongodb

```
Containers / projet_meteo_python

<  projet_meteo_python
   964efab90db2   projetmeteo-main:latest

Logs Inspect Bind mounts Exec Files Stats

# python main.py
Souhaitez-vous interroger l'API ou sauvegarder les données dans MongoDB? (y/n): n
* Serving Flask app 'main'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
```



```
Containers / projet_meteo_mongodb

projet_meteo_mongodb
822540d90af2 mongodb/mongodb-community-server:latest
27018:27017

Logs Inspect Bind mounts Exec Files Stats

$ mongosh
Current Mongosh Log ID: 67753f43b347c3d28d567a2a
Connecting to: mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.3.7
Using MongoDB: 7.0.16
Using Mongosh: 2.3.7

For mongosh info see: https://www.mongodb.com/docs/mongosh-shell/

-----
The server generated these startup warnings when booting
2025-01-01T13:12:19.379+00:00: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine. See http://dochub.mongodb.org/core/prodnotes-filesystem
2025-01-01T13:12:19.879+00:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
2025-01-01T13:12:19.879+00:00: /sys/kernel/mm/transparent_hugepage/enabled is 'always'. We suggest setting it to 'never' in this binary version
2025-01-01T13:12:19.879+00:00: vm.max_map_count is too low
-----

test> show dbs
admin 40.00 KiB
config 60.00 KiB
local 72.00 KiB
meteo 488.00 KiB
test> use meteo
switched to db meteo
meteo> db.villes.find().count()
1873
```

```
meteo> db.villes.find().limit(1)
[
  {
    _id: ObjectId('67750a940b9819e39b7c4c86'),
    coord: { lon: 1.7723, lat: 45.8158 },
    weather: [
      { id: 800, main: 'Clear', description: 'clear sky', icon: '01d' }
    ],
    base: 'stations',
    main: {
      temp: 3.36,
      feels_like: 1.39,
      temp_min: 3.36,
      temp_max: 3.36,
      pressure: 1029,
      humidity: 67,
      sea_level: 1029,
      grnd_level: 965
    },
    visibility: 10000,
    wind: { speed: 2.06, deg: 174, gust: 8.44 },
    clouds: { all: 5 },
    dt: 1735723482,
    sys: { country: 'FR', sunrise: 1735716849, sunset: 1735748313 },
    timezone: 3600,
    id: 2967103,
    name: 'Peyrat-le-Château',
    cod: 200
  }
]
meteo>
```



VII. Annexes

API Open Weather : <https://openweathermap.org/current>

Lien repo : https://github.com/soupji/projet_meteo.git