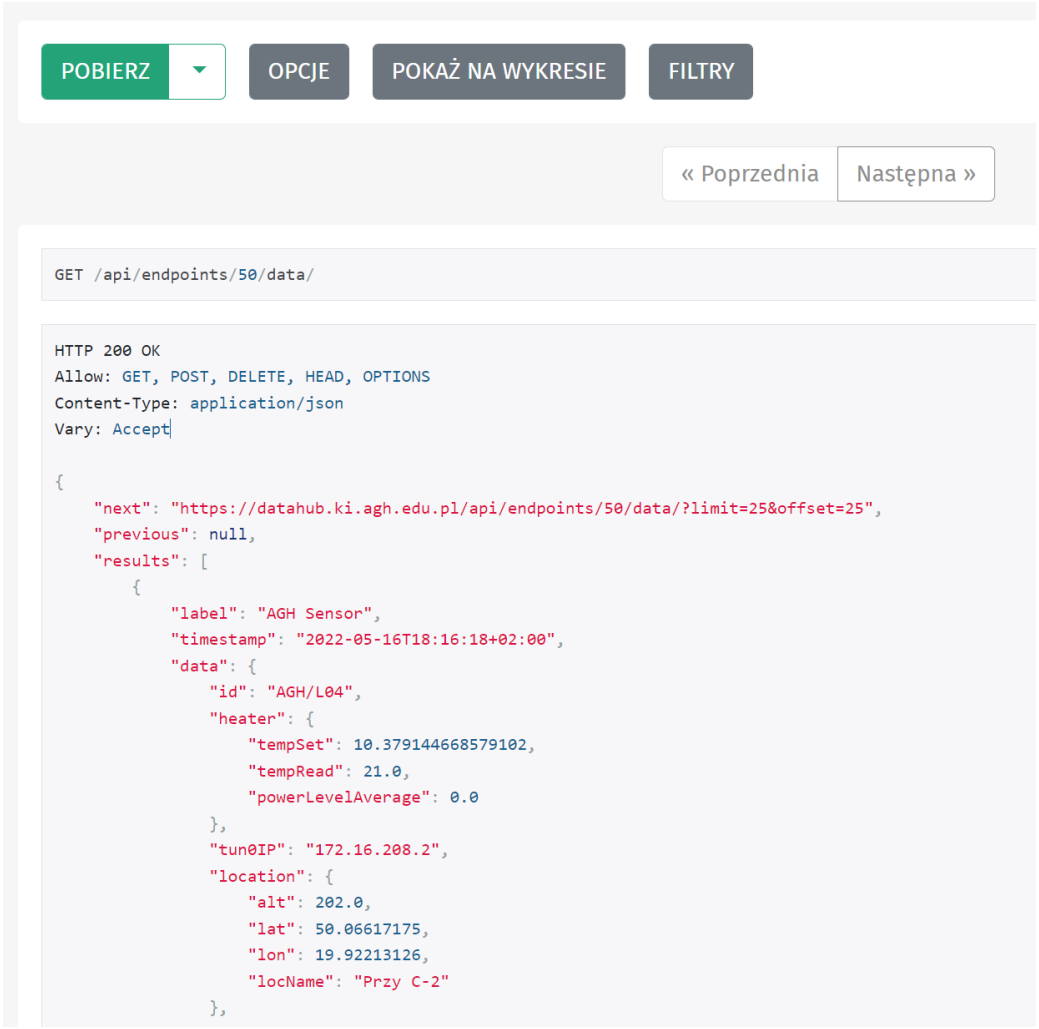
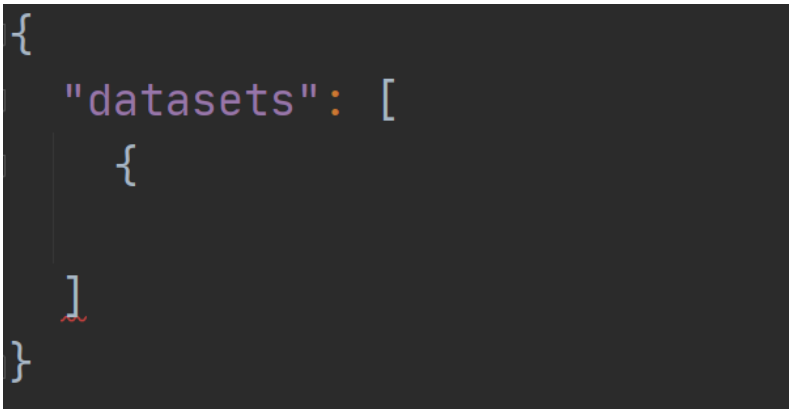
How to create configuration file?

1. First find Api-s which you want to use on datahub.ki.agh.edu.pl. For example: https://datahub.ki.agh.edu.pl/api/endpoints/50/data/



2. Then create JSON file. It will be our configuration file. In file make list named „datasets”:



3. In the list add new record with filed „name”, „type” and „url”:

```
"name": "one day from date",
"type": "CHART",
"url": "https://datahub.ki.agh.edu.pl/api/endpoints/50/data/",
```

You can choose name of dataset, its type as CHART or DATA and pass url.

4. Next create list named „static_data”, which will contain static data from all records , it will make your program faster.

```
"static_data": [
  {
    "name": "Location",
    "source": "location.locName",
    "unit": null
  },
  {
    "name": "IP",
    "source": "tun0IP",
    "unit": null
  }
],
"sensors_data": [
```

```
"label": "AGH Sensor",
"timestamp": "2022-05-06T14:40:37+02:00",
"data": {
    "id": "OT/GRONIE47A",
    "heater": {
        "tempSet": 19.80447006225586,
        "tempRead": 19.6875,
        "powerLevelAverage": 0.0
    },
    "tun0IP": "172.16.208.5",
    "location": {
        "alt": 566.0,
        "lat": 49.518305,
        "lon": 20.271117,
        "locName": "Posesja Gronie 47a"
    },
```

5. After this, pick the sensor data you want to see as a result:

```
"sensors_data": [
  {
    "name": "Temperature",
    "source": "heater.tempSet",
    "unit": "celsius"
  },
  {
    "name": "Pressure",
    "source": "envSensor.pressure",
    "unit": "Pa"
  },
  {
    "name": "Humidity",
    "source": "envSensor.relativeHumidity",
    "unit": "%"
  },
  {
    "name": "PM_1",
    "source": "particleConcentrationSensor.concentration.pm1",
    "unit": "µg/m3"
  },
  {
    "name": "PM_2,5",
    "source": "particleConcentrationSensor.concentration.pm2_5",
    "unit": "µg/m3"
  },
  {
    "name": "PM_10",
    "source": "particleConcentrationSensor.concentration.pm10",
    "unit": "µg/m3"
  }
],
```

```
"envSensor": {
    "dewPoint": 5.37914514541626,
    "pressure": 994051.3125,
    "temperature": 21.79364776611328,
    "relativeHumidity": 34.705787658691406
},
"networkIf": "ppp0",
"verbosity": 1,
"networkAddr": "10.203.215.195",
"supplyVoltage": 12.284416198730469,
"particleConcentrationSensor": {
    "concentration": {
        "pm1": 2.879310369491577,
        "pm10": 5.551723957061768,
        "pm2_5": 3.7068965435028076
    },
```

6. Next add timestamp to to set the period from which the data will be displayed

Parametr „from” could be:

- always -> all data
- hour -> data from one hour
- day -> data from one hour
- week -> data from one hour
- month -> data from one hour
- or just date

Parametr „to” could be:

- now -> data to this moment
- or just date

```
"timestamp": {
  "from": "day",
  "to": "now"
},
```

7. Then add filters: (more in future)
8. In the end add update time:

```
"updates": {
  "update": true,
  "update_interval_sec": 600
}
```

9. If u want to, you can add another dataset to list with different url, name etc.