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Coding Challenge

Node js

Mini-project "**AIR QUALITY**"

Goal:

Building REST API using Node Js.

Context:

The goal of this project is to create a REST API responsible for exposing "the air quality information" of a nearest city to GPS coordinates using iqair :

https://www.iqair.com/fr/commercial/air-quality-monitors/airvisual-platform/api

Tasks:

- **Configuration:**
  - register on "iqair" and create your API KEY (
    https://www.iqair.com/fr/dashboard/api)
  - NOTE: the activation of the key can take a few minutes (about 5 minutes).
  - Fetch "air quality " with this URL (https://api-docs.iqair.com/ par longitude/latitude) using postman or another platform to test the API.
  - Test the endpoint " v2/nearest_city" of iqair API.

- **Integration:**
  - Build Node Js REST API (feel free to choose the framework)
  - Create an endpoint(give a coherent name of your Route)

    params: longitude, latitude.

  - In this endpoint, make a call to IQAIR API to get "air quality " for the given zone (read documentation : "nearest_city") and return the result as below :

```
{
  "Result" : {
    "Pollution" : {
      "ts":""2019-08-04T01":"00":00.000Z",
      "aqius":55,
      "mainus":"p2",
      "aqicn":20,
      "maincn":"p2"
    }
  }
}
```

- **CRON**:
- Implement CRON JOB to check " air quality " for the Paris zone (latitude: 48.856613 ,longitude: 2.352222) every 1 minute than save them in the database (add date and time when saving the air quality)
- (optionnel:) add an endpoint to get datetime(date and time) where the paris zone is the most polluted (based on your CRON JOB results).

Your data should be stored in a database (feel free to choose technology)

Add :

- Documentation
- Unit tests / integration