Technical Challenge - Fastapi

Objective

- Create an API with the endpoints below in the other section.
- Use a public repo in github and share it with the person that sent you the challenge.
- For the above endpoints implements oauth2 for the authentication.
- For every call made to any endpoint store the ip address, country that belongs to this ip address and the state of the weather in this country.
- For the weather use an api that gives you this information.
- Use Postgres as a database engine.
- prepare a Dockerfile or Compose tu test locally your solution.
- Build a READM.md file with all the documentation including api doc, postman files, json files and so on.

Endpoints a desarrollar

Create a New Task

    HTTP Method: POST

    Endpoint: /tasks

    Functionality:

        Accepts a JSON body with a taskName and description.

        Stores the task with a unique taskId, a taskName, description, and status (default status: "pending").

        Returns the created task as a JSON response.

Get All Tasks

    HTTP Method: GET

    Endpoint: /tasks

    Functionality:

        Retrieves all tasks from.

        Returns a JSON array of tasks.

Get a Single Task by ID

    HTTP Method: GET

    Endpoint: /tasks/{taskId}

    Functionality:

        Retrieves a task by its taskId.

        Returns the task as a JSON response if it exists, otherwise returns a 404 error.

Update a Task

    HTTP Method: PUT

    Endpoint: /tasks/{taskId}

    Functionality:

        Accepts a JSON body with updated values (taskName, description, status).

        Updates the task if it exists.

        Returns the updated task as a JSON response.

Delete a Task

    HTTP Method: DELETE

    Endpoint: /tasks/{taskId}

    Functionality:

        Deletes a task by taskId.

        Returns a success message or a 404 error if the task doesn't exist.