Consuming 3rd Party API and Designing RESTful API with CRUD Operations

# *Part 1: Consuming 3rd Party API and Data Validation*

## Sign Up and Get API Key from OpenWeather API

I Created a free account on <https://openweathermap.org/api> by using my email address then created a username and password. After that I received an email from OpenWeather that contains the initial api. On the cite I am able to create a new api to use for api calls. Save the key in .env file.

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## Choose the Right API Endpoint For current weather data use

Visit:   
https://openweathermap.org/current?utm\_source=chatgpt.com#geo

https://openweathermap.org/api/statistics-api#day

and copy API call from the Documentation

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I replaced the city name London with Philadelphia and {API Key } with real API key.

## Test It in Browser Pheonix AZ’s Weather

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Philadelphia PA’s Weather

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## Test It in Postman

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## 🔧 1. Install Dependencies

pip install requests pydantic pymongo python-dotenv

🌦️ 2. main.py — Fetch + Validate + Save

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* It loads the API key from the environment variable OPENWEATHER\_API\_KEY using [os.getenv](vscode-file://vscode-app/c:/Users/tahir/AppData/Local/Programs/Microsoft%20VS%20Code/resources/app/out/vs/code/electron-sandbox/workbench/workbench.html).
* The API key is inserted into the [URL](vscode-file://vscode-app/c:/Users/tahir/AppData/Local/Programs/Microsoft%20VS%20Code/resources/app/out/vs/code/electron-sandbox/workbench/workbench.html) string as a query parameter:

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