Coding assignment

Description

Create an API endpoint that returns the weather information for a specific location. The weather details are retrieved from a 3rd party.

Documentation 3rd party

https://openweathermap.org/api/one-call-3

external URL:
```
https://api.openweathermap.org/data/3.0/onecall?lat={lat}&lon={lon}&exclude={part}&appid={API key}
```

This is a 3rd party service which has a free tier. Register to it to get the API key which you will use for development purposes. Keep in mind that we will test your solution using our API key.

Requirements of the exercise

- This mini-app should be based on Laravel 10.
- Dockerize application using docker-compose.
- Create a new public Git repository and push code on it.
- There should be some validation of the two input fields.
- **Hint:** Maybe we will change the 3rd party service in future. How does this impact code structure?

API you should create

Expected input of this API:
- lat
- long

The API should return JSON:

```json
{
        "lat":33.44,
        "lon":-94.04,
        "timezone":"America/Chicago",
        "current_weather":{
                "datetime":1684929490,
                "temp":292.55,
                "feels_like":292.87,
        },
        "daily_forecast":[
                {
                        "datetime":1684951200,
                        "sunrise":1684926645,
                        "sunset":1684977332,
                        "summary":"Expect a day of partly cloudy with rain",
                        "temp":{
                                "day":299.03,
                                "min":290.69,
                                "max":300.35,
                                "night":291.45,
                                "evening":297.51,
                                "morning":292.55
                        }
                }
        ]
}
```