
PHP Developer Test

21/04/2022

OVERVIEW

Your task is to create a package to interact with a weather API.

REQUIREMENTS

- A class, or set of classes that can be dropped into a basic application and run with minimal dependencies.
- This package must include the ability to
 - Lookup weather based on the following:
 - Postcode
 - lat/lng
 - IP Address (Detection of client IP)
 - Retrieve current weather
 - Retrieve forecast for the next 10-14 days
 - Store the forecast for a given location in a database
 - If a forecast changes on a given day, an 'alert' should be added to a database table called 'alerts' (an example of this flow is below)
- Please use JSON endpoints

KEY INFORMATION

- A SQL file with the table(s) schema should be provided with this package for the application to run, we do not expect your package to generate the database on first run.
- We do not require CRON control being added, but, if you would like to showcase some CLI PHP it is welcomed.
- No front end is required.

RESOURCES

- Weather API: <https://www.weatherapi.com/>
- **API KEY - 7d3f50cf71a94912bb681950220707**

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- Database: We would prefer you to work locally on this, but an online environment can be provided upon request

EXAMPLE FLOW

Forecast for postcode SW1A is:

Monday: Sunny

Tuesday: Sunny

Wednesday: Sunny

Thursday: Sunny

Friday: Sunny

Checking back a day later, the forecast for postcode SW1A is:

Monday: Sunny

Tuesday: Sunny

Wednesday: Rainy

Thursday: Cloudy

Friday: Sunny

Two alerts should be created in the database:

1. Wednesday, stating the change from Sunny to Rainy.
2. Thursday, stating the change from Sunny to Cloudy.

TIME EXPECTATIONS

We expect this task to take no longer than 4 hours.