

# Vreasy PHP Programming Test

## Objective

Develop an application which allows to retrieve the sunrise/sunset time for cities of the United States. Use the following API to get the sunset/sunrise time: <https://sunrise-sunset.org/api>

The source code should be published to GitHub. Link to the public repository should be provided.

Compose a short deployment guide as well as a short user guide.

## General requirements

The application should contain the necessary set of RESTful services. DB connection-related parameters should be set as environment variables. Where needed, implement the structured exception handling and logging. Unit tests implementation is highly desirable.

## Use cases

The app should expose the following resources:

### City

Fields:

- Name
- Latitude
- Longitude

Use cases:

- Get the list of all cities.

- Get city by ID.
- Add a new city with the following parameters: name, latitude, longitude.
- Update an existing city.
- Delete an existing city.
- Search a cities by name and/or coordinates.

## **SunriseSunset**

Fields:

- Sunrise time.
- Sunset time.
- Date.

Use cases:

- Given a city, retrieve sunrise/sunset time. Optionally,
  - A date can be parameterized (default current date).
  - A time zone can be provided to format the response accordingly. UTC should be considered by default.

## Tools & libraries usage

- Apache HTTP Server
- Any PHP framework of your choice (Zend, Laravel, Symfony...)
- Composer
- MySQL
- PHPUnit
- Git