Rezdy Engineering Tech Task

Time: Approx 2 hours
Considerations: When assessing the submission, we will be paying particular attention to how the application is organised, code quality, implementation and quality of tests, interpretation of the problem, adherence to acceptance criteria and of course implementation and final execution.

User Story

As a User I would like to make a request to an API that will determine from a set of recipes what I can have for lunch today based on the contents of my fridge, so that I can quickly decide what I'll be having to eat and the ingredients required to prepare the meal.

Acceptance Criteria

- GIVEN that I am an API client AND have made a `GET` request to the `/lunch` endpoint THEN I should receive a JSON response of the recipes that I can prepare based on the availability of the ingredients in my fridge
- GIVEN that I am an API client AND I have made a `GET` request to the `/lunch` endpoint AND an ingredient is past its `use-by` date THEN I should not receive any recipes containing this ingredient
- GIVEN that I am an API client AND I have made a `GET` request to the `/lunch` endpoint AND an ingredient is past its `best-before` date AND is still within its `use-by` date THEN any recipe containing this ingredient should be sorted to the bottom of the JSON response object

Additional Criteria

- Use the **Slim** PHP micro framework (https://www.slimframework.com/) to create the application API (or any other appropriate framework that you are familiar with)
- The application SHOULD contain some basic unit and integration tests (e.g. using **PHPUnit**)
- The application MUST be completed using an OOP approach
- The application code style MUST be **PSR2** compliant
- Any dependencies MUST be installed using **Composer** (no need to commit dependencies, the composer.lock file will be sufficient)
- Must use **PHP7**
- Any installation, build steps, testing and usage instructions MUST be provided in a **README.md** file in the root of the application - include instructions for building any Docker / Vagrant environments if required otherwise we will assume that the application can be run on PHP's built-in web server (e.g. `php -S localhost:8000`)

Application Data

For the purpose of this task, the application SHOULD simply load data from 2 x JSON files, **recipes.json** and **ingredients.json**. The contents for these files can be found at the end of this document.

Submission

The application should be pushed to a **public** repository on **GitHub** or **BitBucket** (*generate a random repository name*), then simply send us a link to the repository.

NB: Please be verbose with your commit messages and doc blocks as this will allow us to understand some of the decisions you make throughout the process.

Bonus Points

Configure a Docker container or Vagrant box (that uses VirtualBox).

Data

recipes.json

```json
{
    "recipes": [{
            "title": "Ham and Cheese Toastie",
            "ingredients": ["Ham", "Cheese", "Bread", "Butter"]
    }, {
            "title": "Fry-up",
            "ingredients": ["Bacon", "Eggs", "Baked Beans", "Mushrooms", "Sausage",
"Bread"]
    }, {
            "title": "Salad",
            "ingredients": ["Lettuce", "Tomato", "Cucumber", "Beetroot", "Salad
Dressing"]
    }, {
            "title": "Hotdog",
            "ingredients": ["Hotdog Bun", "Sausage", "Ketchup", "Mustard"]
    }, {
            "title": "Omelette",
            "ingredients": ["Eggs", "Mushroom", "Milk", "Salt", "Pepper", "Spinach"]
    }]
}
```

ingredients.json

```json
{
        "ingredients": [{
                "title": "Ham",
                "best-before": "2019-02-01",
                "use-by": "2019-02-06"
        }, {
                "title": "Cheese",
                "best-before": "2019-02-01",
                "use-by": "2019-02-06"
        }, {
                "title": "Bread",
                "best-before": "2019-02-01",
                "use-by": "2019-02-06"
        }, {
                "title": "Butter",
                "best-before": "2019-02-01",
                "use-by": "2019-02-06"
        }, {
                "title": "Bacon",
                "best-before": "2019-01-27",
                "use-by": "2019-02-01"
        }, {
                "title": "Eggs",
                "best-before": "2019-01-27",
                "use-by": "2019-02-01"
        }, {
                "title": "Mushrooms",
                "best-before": "2019-01-17",
                "use-by": "2019-01-20"
        }, {
                "title": "Sausage",
                "best-before": "2019-01-27",
                "use-by": "2019-02-01"
        }, {
                "title": "Hotdog Bun",
                "best-before": "2019-01-17",
                "use-by": "2019-02-01"
        }, {
                "title": "Ketchup",
                "best-before": "2019-02-01",
                "use-by": "2019-02-06"
        }, {
                "title": "Mustard",
                "best-before": "2019-02-01",
                "use-by": "2019-02-06"
        }, {
                "title": "Lettuce",
                "best-before": "2019-01-27",
                "use-by": "2019-02-01"
        }, {
                "title": "Tomato",
                "best-before": "2019-01-27",
                "use-by": "2019-02-01"
        }, {
                "title": "Cucumber",
                "best-before": "2019-01-27",
                "use-by": "2019-02-01"
        }, {
                "title": "Beetroot",
                "best-before": "2019-01-27",
                "use-by": "2019-02-01"
        }, {
```

```
                "title": "Salad Dressing",
                "best-before": "2019-01-17",
                "use-by": "2019-01-20"
        }]
}
```