



Dear Applicant,

Thank you very much for your interest in working with bluworks. As a fast growing company, we need to make sure you are able to produce the output we expect from our bluworks software engineers! Below is a simple task that allows you to showcase your skill sets.

**Stack:**

1. **Language:** PHP
2. **Backend Framework:** Laravel
3. **Database:** MySQL
4. **API Documentation:** Swagger

**Output Format:**

Source code of a Laravel web application + a .sql file of the sample database containing schema and sample data in a ZIP folder.

**Task Directive:**

Build a laravel web application with the below API endpoints. Add sample data in the MySQL database to showcase your work.

**Task Quality Requirements:**

1. All functions should be documented as such:

```
/** * Does something interesting
 *
 * @param Place $where Where something interesting takes place
 * @param integer $repeat How many times something interesting should happen
 *
 * @throws Some_Exception_Class If something interesting cannot happen
 * @return Status
 */
```

2. All API endpoints should be documented using Swagger. You can follow the example here: <https://petstore.swagger.io/>
3. All functions should be unit tested. Please refer to the documentation here: <https://laravel.com/docs/10.x/testing>

The above is applicable on any code you write yourself. This does not apply on any library or extension you decide to use to complete the task.

**Context:**

bluworks is an HR system for workers in the service industry. One of the key features bluworks provides is the ability to track worker clock-ins and clock-outs from a mobile device to enable accurate live data for decision makers.

**Required Endpoints:**



## **POST** Clock-in worker

`/worker/clock-in`

A worker can clock-in using a mobile app to signal their arrival at the work location (e.g.: restaurant branch) and starting work for the day.

The mobile app has a button that allows the worker to clock-in.

The following parameters need to be in the POST body:

1. worker\_id (int, required)
2. timestamp (unix timestamp, required)
3. latitude (decimal, required)
4. longitude (decimal, required)

Clock-in should be rejected if longitude and latitude are not within 2km of the following location: <https://goo.gl/maps/DMkDLoQpXh3o8aFt5>. (location can be hard-coded for the purpose of this test task)

## **GET** clock-ins

`/worker/clock-ins?worker_id=123`

A worker can view their clock-ins. This endpoint takes the worker\_id as a querystring parameter and returns the list of clock-ins associated with the worker.

### **Deadline:**

There is no deadline for the task. The sooner you submit the task, the sooner you can work with us! Our team has limited needs at the moment so we will inform you if we are not hiring any more.

If you have any questions, please reply back to this email with your questions.

Thank you and best of luck!

bluworks Leadership Team