

# 1-Grid Technical PHP Assessment - 202109

Attachment: JSON file: "challenge.json".

## Assignment

Write a process that will neatly transfers the contents of the JSON file to a database using PHP Laravel.

You must design a simple UI which will allow the user to start, stop and cancel or resume the import process at any point.

(Extra points for using Docker)

## Conditions

- [Primary] Create a process in such a way that it can be cut off at any moment (i.e. by a SIGTERM, power failure, etc.), and can easily be resumed from the point where you left off, (without duplicating data <sup>[1]</sup>).
- Use a solid, but not exaggerated database model.

Code for Eloquent models, relationships are not important here, we are more concerned about the data structure.

- Only process records where the person is aged is between 18 and 65 (or unknown).
- State your assumptions up front (readme doc is also appropriate)

*<sup>1</sup> Please note that there is no guarantee that there are no duplicate records in the source file. There are no guaranteed unique (combinations of) properties.*

## What are we looking for

We mainly pay attention to the design and structure of the code. We would prefer a solid, neat, well-maintainable solution. We are particularly interested in the thinking behind your approach.

## Thought Experiment / Please include a short discussion around these topics in writing:

- How would your solution differ if the source file suddenly becomes 500 times larger?
- How much effort would it be to change your process to handle XML or CSV file types? (List your changes)
- Suppose that only records of which the credit card number contains three of the same numbers consecutively should be processed, how would you approach that?

