Task

Senior PHP Developer

Import App

Goal of the assessment

Please do not be intimidated by the scope of the task. The main goal is to see how you make progress

and approach the given tasks. We are very aware that you may not finish everything asked for.

General

Please document your code progress with meaningful commits via git on a repository you can share with us afterward. Also, make sure to include a basic README file that explains how to set up the project in some simple steps.

The technology stack in general is up to you (PHP, MySQL, etc.) but we would like to see some

php and JavaScript based technologies and frameworks. We are currently working with Shopware and Laravel

If you find it suitable anywhere, you can implement some testing with known frameworks like

phpunit or similar.

Task

The task involves a basic data source (csv-file with basic product data), importing that data and

mapping it to a database. The csv-file is attached as well.

Part A) Data-Import

For this part we would like to see a process capable of importing data from the csv file. Think of a suitable way to start the process (e.g., cmd-line).

The goal of this part is to have a functional csv-reader which then can be connected to part b.

Part B) Database

In general, you can use an ORM for interacting with the database. Here you should create a suitable model representing a product and the attributes should match the csv-structure.

Next connect the importer process to a data-saving process which creates the entities and saves them into the database.

Part C) API

We would like to have a couple of endpoints to interact with the data. The following should be available:

- an endpoint that triggers the import of the csv file (existing data can be erased)
- an endpoint to return a single item from database (you can think of a suitable query parameter for this)
- An endpoint to return all items from database

For all endpoints, you can think of suitable query parameters if you find it fitting.

Part D) Caching

Create a caching mechanism to retrieve items without a request to the database.

You can think of a suitable way to implement this and choose any appropriate tool/framework.

Bonus Task) SOLID and Design Patterns

Try to use SOLID and design patterns in your code

Closure

You do not have to finish all the tasks it is more about how you work. You can always ask for help if you have questions.

Do not try to reinvent the wheel, make it simple, quality is more important than quantity