Candidate test

Privet!

Thank you for the brief interview. This document contains a short task we would like you to complete before moving forward. The time estimated for the task is set to 2-3 hours.

We would also ask you to complete a short personality test. In the end of the test, there is a button to retrieve the results by email. Please do so and forward to ebsp@subit.dk or send it to Natallia along with the code test.

You can find the test here: www.16personalities.com

N.B. there is no right or wrong, it's simply to get to know you better.

The task

The task is divided into two separate tasks independent and not related of each other.

Task 1

Create a simple REST API in Laravel that implements the following features as endpoints with data stored in a MySQL database:

1. Create an employee (the attributes could for example be: first name, last name, birthday, phone, email and password).
2. List employees with the option to search and order the output by query parameters. E.g. ?query=emil&sort=-id.

We would like you to consider the following:

- Clean and reusable code - we aim to follow principles such as DRY and SOLID.
- How the data can be represented in a way so it's not depend on Eloquent models as the data provider.
- How to handle generic error messages.
- How to handle validation.

Task 2

Please consider the following database model (on page 2) and suggest if anything could be normalized for a better structure. Feel free to draw in hand or use an online tool of your choice.

Lesson

- id
- subject_name
- subject_name_short
- teacher_name
- class_name
- is_absent
- absent_reason
- reported_absent_at
- starts_at
- ends_at