ASSIGNMENT MICROSERVICES

Dear candidate,

Now that you have passed the first interview, it's time for some hands-on homework, to better assess your technical knowledge and skills.

Please read the below instructions carefully and ensure you have completed the assignment at least 48 hours before the next interview. In this interview, you will be invited to present your solution and the technicalities around it.

BUILDING A MICROSERVICE USING SPRINGBOOT

The API as a Service squad develops microservices using Spring Boot.
Building, checking, testing is done using GitLab CI. The microservices are deployed as docker images to an OpenShift environment using ArgoCD where e2e tests are performed.

The assignment below consists of 6 steps in which we ask you to build a microservice.

Write an API using SpringBoot which can create and retrieve an order.

1. Create an order:
    a. The order looks like this: {"productID": "1234", "email": "abc@def.com"}
    b. The order is only valid when the "email" exists in https://reqres.in/api/users
    c. The order is only valid when the customer has not ordered this product already.
    d. Store the order in a database of choice (orderID, email, first_name, last_name, productID)
    e. Return the orderID
2. Retrieve all orders:
    a. Return a list of all orders (orderID, email, first_name, last_name, productID)
3. Write an openapi yaml (swagger) file specifying the 2 actions
4. Use Postman to prove the API works as specified.
5. Write a readme.md explaining how to install and run the application
    a. We prefer a dockerfile
6. Share the following as zip-file or github project
    a. springboot application
    b. openapi yaml file
    c. Postman collection
    d. Readme.md

Make sure that you share your results and send the zip-file/link to the email address below, so the VodafoneZiggo team can review your work in advance.

You can send an e-mail to martijn.denhoedt@vodafoneziggo.com and gerard.meijwaard@vodafoneziggo.com for questions, remarks about the assessment.

Best of luck!