Introduction

Please find below 3 short coding tasks to complete in advance of your interview.

We want to see how you would tackle these tasks using Java as a working POC, but **we do not need to see a full production worthy system.**

Please use any technologies, third party frameworks/libraries or provided utilities to help you complete the tasks.

We expect you to spend **no more than 2 to 3 hours** on these tasks.

Please store all your work in a code repository, such as Github or Bitbucket, and share the links with us, at least the day before the interview.

We would like you to take about 5-10 minutes to walk through and demo this code on the day of your interview.

Please note, we will also take a few minutes after your demo to ask you how you might improve your API and Integration to make them more production worthy. This will be discussed at a very high level, rather than looking at any changes to your code.

Please contact us if you have any questions.

Task 1

Use the provided Customer and Order CSV files to create corresponding tables in a database.

Task 2

Build a simple API on top of this data. This API should provide 2 REST endpoints that return JSON for Customers and their Orders.

The REST endpoints should be as follows:

- One that returns Customer and Order data for all Customers. This endpoint should also allow you to query for all active or archived Customers.
- Another that returns the same data for a single Customer using a Customer id.

Task 3

Build an Integration that could be run on a schedule, for example as an ETL job.

This should call the first endpoint of your API above to:

- Return the JSON payload for all active customers.
- Then transform the data by concatenating “firstname” and “surname” fields into a single “name” field.
- Then send all the data onwards to a target API that only accepts a payload with a single customer record.
- Then log the returned HTTP Response Code.

You can use https://postman-echo.com/post as the target API endpoint.