

# Proficiency Test

## 1. General description

The proficiency test is a simple problem statement designed to target the developer's problem-solving approach and the usage of more advanced programming techniques. The proficiency test should be completed in the Java Spring framework.

## 2. Instructions

Build an application that does the following:

- Read employees.xlsx file
- Store each employee into the database
- Store each department into the database
- Employees and departments are stored in the same excel sheet, so you need to find a way to handle and save them (without making any change to the excel file itself)
- During the employee insertion, based on their start date and end date, insert them as active or inactive
- Create an API endpoint that would search for employees and return result as json
- Create an API endpoint that displays active and inactive users
- Create an API endpoint that displays every user in Ascending order
- Create an API endpoint that displays the total number of employees by department and list their last names, *given that column "name" on the excel displays the name in "Name and Lastname" order. So, if column value is John Doe, John is the name and Doe is the last name.*
- Write at least 2 Unit Tests for your code

### Bonus Task

Assume that the employees.xlsx gets reimported daily with respective updates (new users added, existing users removed, values for existing users changed). Rework your import logic to respect these changes and update the database accordingly on every import.

## 3. Delivery

- Provide the link to the repository (GitHub) that includes both the application and the database creation script.
- Provide instructions about the project in a readme file
  - How to setup and run the application with its dependencies
  - Little info about the project