
Starting with the amazing world of payslips!

In this exercise we will evaluate:

- How do you usually code: style, consistency, etc.
- Efficiency and suitability of the idea
- Software architecture and maintainability

Exercise

The company "Yellow Cars" is using an old software called "PayslipPro" to calculate its payslips. They have a big problem, it is that they can not modify the Tax rate of their payslips.

They are beginning to integrate with Personio Payroll and we have decided to develop an independent software that can recover and simulate your payslips.

So, from Personio Payroll we want to develop a public API to report a list of payslips. In addition, we can modify the Tax rate of these payslips.

For this, we have a data file, which is hosted on a remote server and contains a payslip report.

The composition of the file is:

- The name of the file will follow a pattern payslips.YYYYMM.txt where Y's represent the year (i.e: 2018) and M's represent the month (Example: 01)
- Each line represents a payslip
- Each line will keep the following structure:
 - 12 chars 🖱 ID
 - 9 chars 🖱 Vat, IdNumber
 - 8 chars 🖱 Date (Format: YYYYMMDD)
 - 8 chars 🖱 Gross (6 integers + 2 decimals)
 - 4 chars 🖱 % National Insurance Rate (2 integers + 2 decimals)
 - 8 chars 🖱 Amount National Insurance deductions (6 integers + 2 decimals)
 - 4 chars 🖱 % Tax Rate (2 integers + 2 decimals)
 - 8 chars 🖱 Amount Taxes (6 integers + 2 decimals)
 - 8 chars 🖱 Net (6 integers + 2 decimals)

The file should be retrieved from [here](#). This is the unique file that we have in the server at this moment.

Tasks

1. We require a GET endpoint that allows us to recover all the payslips extracted for a month and year.
2. We need a PUT endpoint that allows us to modify the % of Tax Rate for the payslips of a month and year. Further, all fields of the payslips should be correctly calculated/updated.

Technology

To solve the exercise, you can use the most comfortable language and framework for you.

Example of line

0000000197084172E201801310026000015380004000007690002000000200000