

Java Coding Task

We expect you to create a small Java application which manages taxes applied in different municipalities. The taxes are valid for a period of time. Application should provide the user an ability to get taxes applied in certain municipality at the given day.

Example: Municipality Copenhagen has its taxes scheduled like this:

- yearly tax = 0.2 (for period 2020.01.01-2020.12.31),
- monthly tax = 0.4 (for period 2020.05.01-2020.05.31),
- it has no weekly taxes scheduled,
- and it has two daily taxes scheduled = 0.1 (at days 2020.01.01 and 2020.12.25).

The result according to provided example would be:

Municipality (Input)	Date (Input)	Result
Copenhagen	2020.01.01	0.1
Copenhagen	2020.05.02	0.4
Copenhagen	2020.07.10	0.2
Copenhagen	2020.03.16	0.2

Full requirements for the application (choose the priority of tasks in the way that when the time ends up you would have working application, not necessarily with all functionality):

- It has its own database where municipality taxes are stored
- Taxes should have ability to be scheduled (yearly, monthly, weekly, daily) for each municipality
- Application should have ability to insert new records for municipality taxes (one record at a time)
- User can ask for a specific municipality tax by entering municipality name and date
- Errors need to be handled, i.e. internal errors should not be exposed to the end user
- Application should have unit or integration tests

Application has no visible user interface, requests are given directly to application as a service (producer service).

Bonus task (if there is time left)

- Update record functionality is exposed via API

If some of the requirements are not clear, make your own assumptions and document in code comments.

Please send us a github repository link once you are finished.