

# Assignment – Software Engineer

## Application

Create a JVM based backend application using REST. That contains the following endpoints:

GET /api/stocks (get a list of stocks)

POST /api/stocks (create a stock)

GET /api/stocks/1 (get one stock from the list)

PATCH /api/stocks/1 (update the price of a single stock)

DELETE /api/stocks/1 (delete a single stock)

The initial list of stocks should be created on application **start-up**. Use a database that is most appropriate for this use-case (Hint: Use Docker and provide user instructions).

The stock object contains at least the following fields:

- ID;
- name (String);
- currentPrice (Amount);
- lastUpdate (Timestamp).

Configure the GET /api/stocks endpoint to support request pagination (the number of stocks per page must be configurable).

Each endpoint must be compliant with the [HTTP/1.1](#) and [REST](#) standards.

Use **Spring Boot** to build and **test** this application.

## Nice to have (Optional)

The codebase should have a comprehensive documentation of its API (Ex: OpenAPI).

The codebase should target Java 11 or higher.

Implementing the project in Kotlin is a plus.

## Implementation

Treat this application as a real MVP that should go to production.

All main use cases must be covered by at least one unit or(and) integration test.

## Submission

Create a **private** git repo (the repository can be hosted on Github or on any similar platform) that contains the project codebase. When done, contact your Payconiq recruiter, who will send you the email of your reviewer (you will have to grant them access).

**Important!** Please remove the project once it's been reviewed.

Good luck!