## Java Assignment for Engineering Managers in Consumer Tech

## Problem Statement

You are implementing a part of a shopping platform. Your task is to design and implement a service that will provide a REST API for calculating a given product's price based on the number of products ordered.

## **Functional Requirements**

- Products in the system are identified by UUID.
- There should be the possibility of applying discounts based on two policies:
  - Amount-based the more pieces of the product are ordered, the bigger the discount is (e.g., 10 items – 2 USD off, 100 items – 5 USD off etc).
  - **Percentage-based** user gets a percentage discount the more items ordered; the bigger the percentage discount is. (e.g., 10 items, 3% off, 50 items, 5% off etc).
- Policies should be configurable.

## Non-functional requirements

- Use Java >= 17 and frameworks of your choice
- The project should be containerized and easy to build and run via Gradle or Maven.
- Please provide a README file with instructions on how to launch it
- There's no need for full test coverage. Implement only the most essential (in your opinion) tests
- Use the git repository for developing the project and after you're done, send us a link to
  it
- Make sure we can run the project easily, without any unnecessary local dependencies (e.g., Don't use OS-specific code)
  - Try not to spend more than one or two evenings on the assignment
- You will eventually have a chance to explain your code in the next stage of the interview
- If you must make some assumptions, document them as you see fit. DO the same with the technical assumptions you make.

Good luck!