

## Java Developer | Technical Screening Task

Thank you for taking the time to participate in this challenge.

Please read carefully all the instructions below.

This is a simple exercise, a simple order manager. You should develop a web app where users can create and manage orders. Items can be ordered and orders are automatically fulfilled as soon as the item stock allows it.

### Specification

The system should be able to provide the following features:

- create, read, update and delete and list all entities
- when an order is created, it should try to satisfy it with the current stock.
- when a stock movement is created, the system should try to attribute it to an order that isn't complete.
- when an order is complete, send a notification by email to the user that created it
- trace the list of stock movements that were used to complete the order, and vice-versa
- show current completion of each order

### Entities

Item

name

StockMovement

creationDate

Item

quantity

Order

creationDate

Item

quantity

User (who created the order)

User

name

email

### Requirements:

- The app should have a web frontend and a java (or other technology) backend.
- Use the programming language and tools that you feel more comfortable with.
- You should provide instructions on how to run the project.

### You should

Provide rough estimates of how much time you'd need to develop this (core development, quality assurance) before the project starts;

In order to ease the environment setup, we provide a development environment with Java, Play Framework and MySQL containers. Please read the README file in the supplied zip.

prodsmart