Backend Code Challenge

In this challenge, no fancy algorithm is necessary, but a clean code that you would do in your everyday life and is ready to be put into a productive environment.

Case study

You have a small company that provides money withdrawals from ATMs through APIs. After a quick registration, with name and email (use the email as the unique identifier), the user can start making withdrawals, with the following rules:

- The first money withdrawal can be a maximum of \$50,00;
- The maximum amount for the subsequent money withdrawals must be \$300,00;
- The minimum value for any money withdrawal is \$1,00;
- The user can make a maximum of 5 money withdrawals in 24 hours;
- For each money withdrawal, the user must pay a fee according to the table below:

Withdrawl value	Fee
\$1,00 - \$100,99	3%
\$101,00 -\$ 250,99	2%
\$251,00 - \$300,00	1%

Important

- At least two APIs are required:
 - Create a new user
 - make a withdraw
 - List all withdrawals from a user.
- It is unnecessary to create/add funds to the user account. You can consider the user has a \$ 1.000,00 funds balance.
- The solution must be written in Java 11, using the spring-boot framework. A Gradle project is preferable over a maven, but it is up to you.
- Provide a README.md with detailed instructions and commands on how to run your application;
- Your solution must run "out of the box", without the need for manual configuration by the reviewer; That means that any external tool, like databases, for example, should be dockerized. And with one single command, the reviewer can start up the containers and the application.
- Please do not make your solution available on a public SCM account (Github, GitLab, or similar). Send us a zip file by e-mail or by private cloud (Google Drive or One Drive);
- Try not to invest more than 8 hours of your time in this challenge;

From: E&V Smart Money dev team