

## Development Task

Implement **SpringBoot Java application** containing **REST API** for maintaining money accounts. Use **Maven** as build tool.

The REST API should expose endpoints described bellow.

### Task functional requirements

#### 1) Create a customer account

**Description:** Once the REST endpoint is called, a new account will be created. Also, if *initialCredit* is not 0, a transaction will be sent to the new account.

**Input:** *accountID, customerName, initialCredit*

**Validation:** Creating account with duplicate *accountID* should not be allowed

#### 2) Get account detail

**Description:** Returns account details.

**Input:** *accountID*

**Output:** *accountID, customerName, accountBalance*

#### 3) Send transaction (increment/decrease account balance)

**Description:** adds/removes money from account

**Input:** *accountID, balanceChange*

**Output:** Updated *accountBalance* value

**Validation:** Negative *accountBalance* < 0 should not be allowed

#### 4) Get account transaction history (Optional / Nice to have)

**Description;** Returns list of transactions done on a specified account ordered by transaction time (starting with newest one and ending with the oldest)

**Input:** *accountID*

**Output:** *accountID, customerName, balanceChange, timestamp*

**Implementing points 1-3 is mandatory, the point 4 is optional (nice to have)**

### Task technical requirements and important information

- You don't need to implement any data persistence. Just keep all data in memory
- Implement also **unit tests** with sufficient test case and code coverage.
- The application and unit tests should be expected to be run also with **Maven** commands.
- Use also **logger** so it is clear on console what application is doing exactly and all error states are easy to identify.
- Feel free to use any **open source** tool or library.
- The code produced by you is expected to be of **high quality** and should be documented properly (JavaDoc)

### Task optional technical requirements

**All the requirements described below are optional (nice to have).**

- The expected deliverable is source code and instructions on how to execute it in form of a **README** file.
- Upload your code to **github** (github.com) with **atomic commits** (if not using github just provide zip file with sources).
- Create also a **Postman collection** for testing the application end-to-end. (optional) (You can download Postman here: <https://www.postman.com/downloads/>)

In case you have any questions or doubts about the requirements you are free to contact us anytime on the following email:

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We are willing also to set-up a call to explain it further and answer your questions.