

## Development Task

Implement **SpringBoot Java application** containing **REST API** for processing payment transactions. Use **Maven** as build tool.

The REST API should expose the following endpoint:

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

Design and implement data model, controller, service and repository layer.

### 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)
- REST API should be documented by Swagger Open API annotations

### Task optional technical requirements

- 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.