

## Instructions

Create a Java RESTful application for an e-Commerce company that allows to detect "anomalous accounts" given payments. A **Payment** has the following property:

1. Id
2. Timestamp
3. Sender account id
4. Receiver account id
5. Amount

### Requirements:

Implement endpoints that allows CRUD operations to:

1. create a Payment
2. get a single Payment by its ID
3. **get all Payments ordered by timestamp** (descending)
4. get all Payments for a given sender or receiver ordered by timestamp (descending)

### Bonuses:

1. Add a Cache for the API calls
2. Use Docker to build the project
3. Implement a suspicious accounts detector following these specs:

A "**Suspicious Account**" is an account that exchanges money with more than X different accounts. The more the number of different accounts, the more the account is considered suspicious. For example, given these payments:

- Sender account id = 10, receiver account id = 70
- Sender account id = 10, receiver account id = 80
- Sender account id = 20, receiver account id = 30
- Sender account id = 40, receiver account id = 20
- Sender account id = 20, receiver account id = 50

The most suspicious account is the account id 20, followed by the account id 10.

## Deliverable

Produce a compressed package with all source code, and send it via email. You can add additional metadata code such as the .git folder.

## Technologies

You can use any JVM-based language, and you are free to use any framework you like. If you are in doubt, we would like to receive a Spring Boot application.