

# Luminor Java developer intern homework 🦍

## Before you start

- Please do as many requirements as you can, yet better deliver less but show absolutely best you can than do everything in a hurry
- Please do not push your solution to public git repository hosting – we would appreciate if you could attach .zip with repository to the e-mail

## Evaluation

- Code hygiene and readability: everything from package structure, class and variable naming and naming consistency to consistent formatting
- OOP design - code testability, following SOLID/DRY principles, usage of design patterns (where appropriate)
- Unit and integration tests are huge “+”

## Requirements

Please create compact Spring web application for payment processing. Please use Java and in-memory DB to store data.

### 1. Payment creation

Create `POST /payments` endpoint for payment creation.

All of the following fields are expected to be provided during creation:

Field name	Validity criteria
<code>amount</code>	Positive decimal
<code>debtorIban</code>	Valid IBAN (regex check is fine, so is library usage)

1. `debtorIban` should be a Baltic country (LT, LV, EE) account number
2. Payment creation timestamp should be saved
3. Payment ID (UUID) should be saved

### 2. Payment creation from CSV

Create `POST /payment-files` endpoint that accepts CSV and creates specified payments.

Example CSV:

```
"amount","debtorIban"  
"15.0","LT356437978869712537"
```

1. Payments created through from CSV should also be validated according to rules described in `POST /payments` endpoint.

### 3. Payments querying

Create `GET /payments` endpoint that returns list of payments

1. Results should contain `id`, `amount`, `debtorIban` and `createdAt` fields
2. Endpoint should accept optional `debtorIban` filter as a query parameter

## 4. Client country logging

In `POST /payments` and `POST /payment-files` endpoint:

1. Resolve caller country using external service of choice. Persist resolved country code with payment
2. Assume caller IP is present in `X-Forwarded-For` request header
3. Do not fail if IP is not present or country resolution fails