

# Practical Coding Task - Java

## Goal

The candidate will implement a JAVA service, which will:

- expose an API to enrich trade data (trade.csv) with product names from the static data file (product.csv)
- Translate the **product\_id** into **product\_name**
- Perform data validation
  - Ensure that **date** is a valid date in YYYYMMDD format, otherwise discard the row and log an error
  - If the product name is not available, we should still log the missing mapping and set the product Name as "Missing Product Name"

### Technical constraints :

- Please use **Java11**(or Java17) and **Maven**
- The service should be able to support very large trade.csv files
- The service should be unit-tested
- The service should contain a Readme file to explain how to run the project

## Sample Data

### Sample static data file : product.csv

```
product_id, product_name
1,Treasury Bills Domestic
2,Corporate Bonds Domestic
3,REPO Domestic
4,Interest rate swaps International
5,OTC Index Option
6,Currency Options
7,Reverse Repos International
8,REPO International
9,766A_CORP BD
10,766B_CORP BD
```

### Sample trade data file :trade.csv

```
date,product_id,currency,price
20160101,1,EUR,10.0
20160101,2,EUR,20.1
20160101,3,EUR,30.34
20160101,11,EUR,35.34
```

## Sample Output

### Sample HTTP Request

```
curl --request POST --data @trade.csv --header 'Content-Type: text/csv' --header 'Accept: text/csv'
http://server.com/api/v1/enrich
```

### Sample HTTP Response (text/csv)

```
date,product_name,currency,price
20160101,Treasury Bills Domestic,EUR,10
20160101,Corporate Bonds Domestic,EUR,20.1
20160101,REPO Domestic,EUR,30.34
20160101,Missing Product Name,EUR,35.34
```

## How to share the project

Due to security reasons, SCB is not allowing us to receive external zip files. Therefore, the candidate can upload the project to Github and we will download it from there.