

Foreign Currency service

Background

As the company is rebuilding its main API it also plans to add a foreign currency service to allow the company to provide product prices in currency chosen by the customers.

Requirements

Functional requirements

The system has as main functionality is to convert a price for a product based on currency.

Price

A price object contains **europrice** and **currency**.

Endpoints

The service should provide the following endpoints:

- Get converted price
POST /api/v1/price

The price is calculated as the original price divided by the exchange rate. The price in the business database is assumed to be in Euro.

The currency is provided as price object as a request data. The endpoint returns a String representation of the resulting price.

Important to follow the pattern for the endpoint since they are used by other services that expect these endpoints.

Technical requirements

Suggestions of implementations can be discussed with the product owner. Use best practices for building the software project.

Security

The service will only be used inside the hosting environment and the decision has been made to run the service without any authentication.

VCS and build

The source should be version controlled with git and hosted in GitLab. A build process should be setup to build the maven project and then the docker image. Implement a first minimal test setup in the project.