

ExchangeAPI ReadMe

About the project

API that fetches exchange-rates a publicly available API (<https://exchangerate.host/>) and uses them for conversion calculations

Run the application

- Type in your terminal:

```
git clone https://github.com/xaviqo/exchangeapi.git
```

- Launch the following command form the project root directory:

```
mvn spring-boot:run
```

Available endpoints

- [GET] Get exchange rate from Currency A to Currency B:

```
/v1/exchange-rate/currency_a/currency_b
```

- [GET] Get all exchange rates from Currency A:

```
/v1/all-rates/currency_a
```

- [GET] Get value conversion from Currency A to Currency B:

```
/v1/value-conversion/currency_a/currency_b/amount
```

- [POST] Get value conversion from Currency A to a list of supplied currencies:

```
/v1/multiple-values-conversion
```

Example payload:

```
{
```

```
"from": "EUR",  
"amountTo": 10,  
"targetCurrencies": ["GBP", "HRK", "MXN"]  
}
```

- [GET] Application health check:

/v1/health-check

Test API with Swagger:

<http://localhost:8080/swagger-ui/index.html>

Configurable parameters

In the `application.properties` file there are some parameters that can be adjusted

- **exchange-rate.host.time-out-sec**: Threshold for external API response
- **exchange-rate.host.base**: Base URL of the external API
- **exchange-rate.host.end-point.rates**: Endpoint path to get the latest exchange rates
- **exchange-rate.host.end-point.symbols**: Endpoint path to obtain the available currency codes
- **api.cfg.base-currency**: ISO code of the currency that we will use for the conversion of values and for integration calls
- **api.cfg.cache.ttl-ms**: Time to live in milliseconds of the cached data