

Take-Home Assignment

In this assignment you will implement a REST service that returns historical exchange rate information.

The service will use a free API provided by the ECB as its data source.

This API is documented at <https://exchangerate.host/>.

The service you implement should expose an endpoint that accepts this input:

- A set of Dates
- A base currency
- A target currency

The service should return this information:

- The maximum exchange rate during the period
- The minimum exchange rate during the period
- The average exchange rate during the period

Example usage and return values

Given this input

- Dates: 2018-02-01, 2018-02-15, 2018-03-01
- Currency SEK->NOK

The service should return this information:

- A min rate of 0.952702 on 2018-03-01
- A max rate of 0.979845 on 2018-02-15
- An average rate of 0.9702316666666667

Requirements

Put your source code in a repository, and send us the information we need to access it.

We suggest you use a public repo on github.

We also expect you to supply instructions on how to build and run your service.

We expect your service to be "production ready", but you should time-box this assignment to a

maximum of 3 hours.

Please document any shortcuts or known issues in your solution.

Your service should use JSON and REST.

The exact structure of the endpoint URL and the result JSON is up to you.

Your service should have a reasonable response time even when called with many (50+) dates.

You can assume that `exchangerate.host` is an enterprise grade API that scales very well and accepts an almost unlimited load.

We strongly suggest you choose technologies and frameworks you are familiar with.

Good luck, and happy coding!