

Engineering Test

Objective

You need to build a web service which exposes the current exchange rate of USD to MXN from three different sources in the same endpoint. The response format should be something like this (feel free to adjust or modify this format):

```
{
  "rates": {
    "provider_1": {
      "value": 20.4722,
      "last_updated": "2018-04-22T18:25:43.511Z"
    },
    "provider_2_variant_1": {
      "value": 20.5281,
      "last_updated": "2018-04-23T18:25:43.511Z"
    },
    ...
  }
}
```

Requirements

- The sources of exchange rates must be the following:
 - [Diario Oficial de la Federación](#): It doesn't provide an API so you need to do some scrapping.
 - [Fixer](#): It has a well documented API in JSON Format.
 - [Banxico](#): The needed catalog for this service is SF43718, this API returns XML

documents.

- Commit to git your changes often to show us your progress.
- Code must be tested.
- Response time must be lower or equal than 50ms.
- Project should be Dockerized.
- API should be accessed with an Application Token
- API should have a rate limit per user
- Code should be deployed on an Linux instance (provided by us).

Rules

- You can use the programming language and framework(s) of your preference.
- You can add additional services like databases, cache engines or whatever you consider as needed.