

# Backend Dev - Challenge

## Purpose

The purpose of this document is to state the goals of a tech challenge to be completed by a candidate that is seeking to join the Settle tech team.

## Goal

The goal of this challenge is to evaluate the candidate's skills for backend development in a context of understanding particular business rules of our industry.

## Challenge

Build an API that allows:

- To create rates by obtaining FX rates from a given provider.
- To add a mark-up fee over the obtained FX rate
- To retrieve a list of these rates detailing:
  - Pair
  - Original rate
  - Fee %
  - Fee amount
  - Rate with mark-up fee applied

## Deliverables

- Host the solution in an AWS free tier instance.
- Document the API endpoints using Swagger
- The candidate must provide a Postman Collection to interact with the API.

## Stack

NodeJS, HapiJS, MongoDB

## Source:

<https://fixer.io>

**Docs:**

<https://fixer.io/documentation>

**Base url:**

<http://data.fixer.io/api/>

**API Access Key :**

ffcc344a3f31700c0020d166fd17ea96

**Pairs**

EURUSD

EURARS

USDARS

EURBRL

USDBRL

BRLARS

**Hint:** As this account is a free account in fixer.io, endpoints and base currencies are limited. Use your creativity to obtain the rates for the desired pairs!