

Glovo Fullstack Engineer Challenge

We'd like to offer you a challenge to get a better understanding of your capabilities as a fullstack engineer. We expect you to spend no more than a day on this task.

To submit the results it's enough to just share a GitHub link to a public repository with your solution.

You are expected to work on this task alone, without help or advice from others. If you have any issues with the assignment or require clarifications, please feel free to reach out to us.

Introduction

The task is to create a simple crypto tracker application (backend + frontend) that works with **Moneeda API**.

Before going into details, let's define a couple of concepts.

- **Exchange** - think of it as a Store. It's an entity that has multiple products with prices. For this task we're interested in these three exchanges: `BNB`, `BTX` and `BFX`.
- **Product** - a cryptocurrencies product. It has multiple values inside, but the most important ones (as far as this task is concerned) are the product name itself and the price. The product name follows the pattern `BTC-ETH` representing a pair of coins. The price is a floating point value with a precision of around 8 digits.

Moneeda is a gateway-type service that provides a unified API for multiple exchanges. Among other things, it allows you to get a list of supported products and their prices for a specific exchange.

The goal is to create an app that "flips around" the data available through Moneeda API and shows a list **shared** products with prices on different exchanges.

Backend

Backend part of the app should provide two endpoints:

- `/products` - returns all products shared between the exchanges. For example, if BTX had

products [A, B, C, D]; BNB had products [B, C, D, E]; BFX had products [C, D, E, F] - the expected result would include only products C and D as they are common to all three exchanges.

- `/products/PRODUCT/prices` - returns PRODUCT's prices on all three exchanges.

Frontend

On the frontend the app should do the following:

- Display a welcome message
- Ask the user to pick a product in a filterable select (for example, BTC-LTC)
- Display cards with the prices in each exchange (for example, BTX: 0.015704, BND: 0.015654, BFX: 0.01567)
- Highlight the higher price (green) and the lower price (red)

You have complete freedom in choosing the tools that you need to make it work.

Moneeda API

To complete this task you will need to use these two endpoints:

- /api/exchanges/EXCHANGE/products - list of products
- /api/exchanges/EXCHANGE/ticker - price of a product

Use this token for Authentication:

eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJlbWFPbCI6ImRldkBNbG92b2FwcC5jb20iLCJpZCI6IjY1NTcyZGEyNTM0WmZnZiZlZlLnJY1NCiIsIm1hdCI6MTUxNTY2MjgyMn0.a6homM0umqLBxwfX9n0wbBaxmSx-srkS8dISSPCPPYE

Please note that although Moneeda provides a Node.js convenience library, we ask you to use HTTP API directly for this assignment.

Have fun!