Cyberscope Full-Stack Assignment

Create a lightweight full-stack application that provides information about cryptocurrency prices. The application will contain 2 basic pages, the list of all the coins and the detailed coin page.

We will use the Coingecko https://www.coingecko.com/en/api API as source.
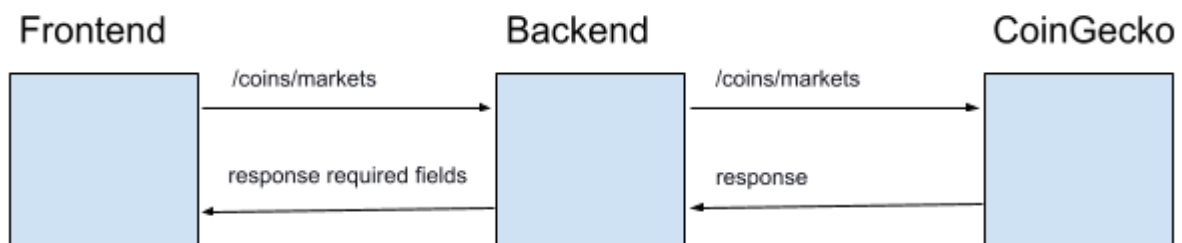
Technical details

The frontend should be implemented in React. The backend should be implemented in NodeJS. There is no other limitation. Feel free to use the tools that you believe are right for the assignment. You are also free to design the look and feel of the application.

The usage of Typescript is not recommended.
The preferred technologies are: backend (NextJS or ExpressJS or pure NodeJS) and frontend (React and Styled components)

Backend

The backend should work as a proxy of the coingecko API. When the frontend requests the /coins/markets or /coins/{id} endpoint, the request should be performed to the backend and the backend should perform the request to the coingecko API. The backend should respond to the frontend only the fields that are required for the render.

Notes

- The endpoints are provided. Make sure you use the proper parameters on each request so we do not request unnecessary information.
- The currency of the requests is fixed in dollars (usd).

List of coins page

Endpoint /coins/markets

The coin item

The landing page of the application will contain a list of all the coins. Each coin should contain:

- The name
- The symbol
- The current price
- The highest price in the last 24 hours
- The lower price in the last 24 hours
- The price change in percentage of the last 24 hours

Pagination

There are thousands of coins in the market, so a typical pagination mechanism should be implemented. There is no limitation in the way that this mechanism should be implemented, and it is not required to display the maximum page. The main requirement is to request a specific amount of coins on each request.

Coin details page

This page contains detailed information about a specific coin.

Coin details

Endpoint /coins/{id}

You could inspect Coingecko's response payload to use the right information. If the corresponding information is not obvious, we mention the specific attributes.

- The current price of the coin (market_data.current_price.{currency})
- Coin name
- Coin description
- Price change on the last 24 hours, 7 days, 14 days, 1 month, 2 months, 200 days, 1 year

- The highest price on the last day (high_24h)
- The lowest price on the last day (low_24h)

Submission

1. Submit the assignment to a version control tracker (Github, Gitlab, Bitbucket etc.)
2. If it is private, invite us at dev@cyberscope.io
3. Send an email to john@cyberscope.io with your Github/Gitlab/Bitbucket name.

Happy Coding