



Mindfury Technical Test

Full Stack

Time allowed: 3 hours
Goal: See what your code is like

Please spend no more than 3 hours on this test, we value working, high quality code over completeness.

Please provide instructions on how to run and test your solution.

Show me your Cryptos

The client needs a web-app to compare his cryptocurrencies. The web-app must be mobile friendly, so he can use it on his iPhone or his desktop (Mac).

My Crypto Ticker

1 GBP	=	0.00019 BTC
1 BTC	=	5263.17 GBP

Bitcoin

1 GBP	=	31.6455 SMART
1 SMART	=	0.0316 GBP

SmartCash

*Bitcoin 1 : **133575** SmartCash*

Specification

To prove to the client we have the skills needed, produce a simple proof of concept.

Suggested technologies (but feel free to use what you are comfortable with):

- Backend - NodeJS (Express), Unit Tests (Jasmine/Mocha/Any)
- Frontend - HTML (or pug/handlebars templates), CSS (or less/sass), JavaScript (or Angular/React)

Display the current GBP value for Bitcoin (BTC)

Requirements:

Implement an API endpoint that returns the current price of bitcoin in GBP.

Our API endpoint should get data from the third party API (<https://coincap.io/page/GBP>) to get the latest values. (can be hard-coded to avoid rate limits).

Display the current value of SmartCash in GBP

Requirements:

Amend the API endpoint (or add a new endpoint) to return both BTC and SMART prices in GBP

Our API endpoint should get data from the third party API <https://coincap.io/page/SMART> to get the latest values. (data can be hard-coded to avoid rate limits)

Show the ratio of BTC to SMART and vice versa.

Implement an API endpoint (or amend the existing endpoint) to return the ratio of BTC to SMART

Requirements

Well structured, testable code that demonstrates [SOLID](#) principles.

At least one (backend) unit test to cover the GBP to BTC and SMART calculations.

Commit your code to a Git repository, and share with us (e.g. Github, Bitbucket, Gitlab, Beanstalk).

Nice to have

- Refresh button
- Support alternative currency pairs
- Support more than two currencies

If you have time

- Nice interface
- User selectable currencies
- Cache rates from external API
- BDD Tests