Patchwork

The Challenge

The idea of this is to challenge candidates' abilities to understand and engage with interviewers to complete the task. The challenge covers core functionality which we use daily at Patchwork, including working with API's, building reusable methods, displaying understanding of good design patterns, and the testing thereof.

The Task

We give the candidate an API key and as well as the API documentation to an open source cryptocurrency API. Depending on the level of the candidate we will provide them with tools to help them complete this. What we require is an application that can perform the following:

Task 1

Retrieve a list of cryptocurrencies given set of tickers

Ie: Given an array of ['BTC', 'XRP', 'ETH']
I want to get the full payload of those cryptocurrencies

Task 2

Retrieve a (list) specific crypto currency and specific values based on the ticker and any other dynamic params

Ie: We want to view the [circulating_supply, max_supply, name, symbol, price] for [ETH, BTC]

Task 3

Retrieve a specific cryptocurrency to specific fiat. Ie: BTC in ZAR or ETH in USD

Task 4

Calculate the price of one cryptocurrency from another, in relation to their dollar value
Ie: 1BTC = $100, 1ETH = $50, therefore 1ETH == 0.5BTC

Tools:
API KEY = 04852ded-5407-4662-8420-3be14cf4b03b
API URL = https://api.nomics.com/v1/

Hints:
require 'uri'
require 'net/http'
require 'json'
require 'rspec/autorun'