

# Knab Engineer Recruitment Test

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Thank you for taking the time to do our technical test. It consists of two parts:

[A coding assignment](#)

[A few technical questions](#)

Submit your result providing a link to a public [Github](#) repository to your recruiter. If you don't feel comfortable making your code public, contact us and we will agree on another way.

Please, add a markdown file with the answers to the technical questions in the same repository.

## 1-Coding Assignment

The assignment is the following:

Create a web application (.Net Core web API or Asp.Net Core MVC application) that accepts a cryptocurrency code as input. The application should then display its current quote in the following currencies:

- USD
- EUR
- BRL
- GBP
- AUD

To complete this task, you can only use these 2 APIs:

- <https://exchangeratesapi.io>
- <https://coinmarketcap.com/api> (free version)

### Task requirements

Feel free to spend as much time on the assignment as you'd like as long as the following requirements are met.

- Please complete the user story below.
- Your code should compile and run in one step.
- Feel free to use whatever frameworks / libraries / packages you like.
- Code must follow best practices and clean coding principles.

### User Story

As a **user running the application**

I can **view a list of the latest quotes for a user submitted cryptocurrency code (e.g. BTC)**

So that I **know what the exchange rate is for every currency**

#### Acceptance criteria

- For the known code BTC, results are returned

- Values for USD, EUR, BRL, GBP, and AUD are shown

### **Important**

If you have any questions about the test, don't hesitate to contact your recruiter. We will evaluate if your code:

- Solves this problem
- Is clean
- Is secure
- Has quality
- Has Unit tests

## **2-Technical questions**

Please answer the following questions in a markdown file called [Answers to technical questions.md](#).

1. How long did you spend on the coding assignment? What would you add to your solution if you had more time? If you didn't spend much time on the coding assignment then use this as an opportunity to explain what you would add.
2. What was the most useful feature that was added to the latest version of your language of choice? Please include a snippet of code that shows how you've used it.
3. How would you track down a performance issue in production? Have you ever had to do this?
4. What was the latest technical book you have read or tech conference you have been to? What did you learn?
5. What do you think about this technical assessment?
6. Please, describe yourself using JSON.

**Thanks for your time, we look forward to hearing from you!**

The [Knab Tech team](#)