

# QA Challenges

## Tech stacks:

You can use **any languages or tools** you feel comfortable with to complete the tasks (task 1 + task 2).

The whole demo should include:

1. API Test Automation Framework (e.g. test cases / test data / assertion / env config...)
2. Testing Framework (e.g. Pytest/Behave for Python, TestNG/Cucumber for Java)
3. Any open source libraries you find useful

## Tasks and deliverables:

1. Script / code (through github, etc)
2. Setup guide

A short description on your design, your test cases.

### Task 1:

Situation:

You are given an API description document:

<https://exchange-docs.crypto.com/#introduction>

We want to automate the REST endpoint:

**'public/get-candlestick'**

The REST API root endpoint:

<https://exchange-docs.crypto.com/#rest-api-root-endpoint>

The document address of the specific endpoint:

<https://exchange-docs.crypto.com/#public-get-candlestick>

What is required:

1. Automation the REST API '***public/get-candlestick***'
2. The points you usually use for automation
3. Have test cases and test data
4. The code has a clear frame structure

Preferable tech stack:

- Python
- Behave

## Task 2:

Situation:

You are given an API description document:

<https://exchange-docs.crypto.com/#introduction>

We want to automate the Websocket endpoint:

***'book.{instrument\_name}.{depth}'***

The Websocket API root endpoint:

<https://exchange-docs.crypto.com/#websocket-root-endpoints>

The document address of the specific endpoint:

[https://exchange-docs.crypto.com/#book-instrument\\_name-depth](https://exchange-docs.crypto.com/#book-instrument_name-depth)

What is required:

1. Automation the Websocket API '***book.{instrument\_name}.{depth}'***.
2. The points you usually use for automation
3. Have test cases and test data
4. The code has a clear frame structure

Preferable tech stack:

- Python
- Behave