

Sky DNE – Python API Technical Exercise

Write a micro service app to fetch crypto currency market updates from below site.

<https://bittrex.github.io/api/v3>

<https://bittrex.github.io/api/v3#tag-Markets>

Functional Tasks

1. API implementation and param validation using standard libraries.
2. One API to return all market summary, backend can refer to the below with authentication
 - a. <https://api.bittrex.com/v3/markets/summaries>
3. One API which accepts **market** as query param and depends on the below backend API with authentication.
 - a. <https://api.bittrex.com/v3/markets/<marketSymbol>/summary>
 - b. e.g. (for ltc-btc) - <https://api.bittrex.com/v3/markets/ltc-btc/summary>
3. Quality unit tests using pytest
 - a. Coverage should be above 80%
5. Code should be committed to Git and shared for us to be able to monitor commit messages and evolution of code from scratch.
 - a. Helps us evaluate development approach from the candidate

Non Functional Tasks

1. Authentication for backend rest calls
2. Professional API documentation. (ex: swagger)
3. Linting and quality control integrated in the in the project folder.
4. Good project structuring
5. Secured way of storing auth credentials
6. No Hardcoding
7. Efficient code (less loops, conditional statements)
8. Read.md with project documentation

Bonus tasks

1. Docker build files
2. Back-end Health check and version info APIs.
3. Protect the APIs developed using standard authentications and authorisation techniques.