Vetty Intern – Python API Technical Exercise

Write an app to fetch cryptocurrency market updates from the [CoinGecko API](#) or any other similar service. Your project must be submitted through Github or similar with comprehensive README.md

Product requirements

1. Basic.

Application is an HTTP REST API.

Version 1.0 of the application exposes endpoints with following functionality:

1. List all coins including coin id.
2. List coin categories
3. List specific coins according to id from listing endpoint and/or category from categories endpoint. Listing should show market data against the INR(Indian Rupee) and Canadian Dollar.

   Your API response data should be paginated with *page_num* query parameters. Default pagination is 10 items per call. Default pagination can be overridden by query parameter *per_page*.

Application is protected with an API token or JWT-based authentication mechanism preferred.

Application is well documented. You can use Swagger or similar.

Application is covered by unit tests.

2. **Extra.**

Create dockerfiles to run your project in a Docker container.

Implement health check and version information endpoint for the application itself and 3-rd party services.

Integrate linting and quality control in the project folder.

While evaluating your solution we will be looking at:

- ☐ PEP-8 is followed.
- ☐ Code is easy to read and follows best practices and principles. Zen of Python, KISS, DRY.
- ☐ Project is well structured.
- ☐ Any sensitive data and configuration parameters are stored properly.
- ☐ Commits in the repository are good.
- ☐ Test Coverage (preferably above 80%).