Tower Research CDP Developer Hiring Challenge

Application: Crypto Watcher

Framework:

* Django (Python Framework)
* JQuery
* Bootstrap

Database: SQLite3

Deployment: docker

Frontend:

* HTML
* CSS
* Ajax
* JS

Steps:

Environment Setup – [Using venv] [Recommended]

* venv package of python.
* Download source code – CryptoWatcher
* Activate venv present inside cryptowatcher folder.
* Pip install –r requirements.txt (optional, added venv virtual environment, it has all the necessary packages for cryptowatcher project.
* Just run python manage.py runserver, it will start the application. No need to migrate database, already included sqlite db.
* Browse to 127.0.0.1:8000 to view application.

Environment Setup – [Using Docker]

* DockerFile is included with docker-compose.yml file.

Process Flow –

* To load data from csv file, load\_data\_to\_db.py in /CryptoWatcher/api, it will automatically pick all the csv files present in data\_dump folder and upload the data to db.sqlite3. Currently all the data is present in sqlite db
* After running python manage.py runserver, application will start on 127.0.0.1:8000 and index page would be loaded with all the cryptocurrencies present in the DB with its data required in assignment.
* It has search filter to filter within currencies
* Search for currency required, and click on Details, it will hit details api and fetch all the details relevant to that currency and it will also fetch in every 2 minutes the current data of selected cryptocurrency in USD.