CHAINALYSIS ASSESSMENT

1. Are there any sub-optimal choices(or short cuts taken due to limited time) in your implementation?

ANSWER:
All the code is cluttered due to the time constraint. All the API calls are executed on a single page refresh instead of providing a mechanism to execute a specific API call based on the user's requirement. It creates a lot of overhead and lag and sometimes delays the price display.

2. Is any part of it over-designed? (It is fine to over-design to showcase your skills as long as you are clear about it)

ANSWER:
The design is minimal. I've only used Material-UI to display data in the form of Cards and in a Grid structure.

3. If you have to scale your solution to 100 users/second traffic what changes would you make, if any?

ANSWER:
We can split the application into multiple instances where each instance can handle one part of the applications data. This will accommodate the surge in the users.

4. What are some other enhancements you would have made, if you had more time to do this implementation?

ANSWER:
I could've used Redux Toolkit to organize API calls in the frontend. I could create a mechanism to refresh the coin prices every minute to provide accurate price without a page refresh. I could've better organized the back-end code. I could've added graphs that display the history of price changes of the coins. This would help the user determine the best exchange for trade.