**Roles:**

Marcus

Anmol

Avery

Josiah

Ceston

**Software:**

Visual Studio (latest)

Github extension

https://api.coindesk.com/v1/bpi/currentprice.json

**Functional requirements:**

* Currency Selection Requirements:
  + The software shall allow user to select specific cryptocurrencies for the system to follow in real time
  + The system should provide real time data on selected cryptocurrencies without interruption
* Currency Presentation Requirements
  + The system shall present real time information via the line graph showing recent trends
  + The system will refresh the data when specific cryptocurrencies are selected
* System Alert Requirements
  + The alert system shall be accessible to the user and allow them to input specific targets for certain cryptocurrencies
  + The system shall trigger alerts when user specified targets are met

**Non-functional requirements:**

**Links:**

<https://www.newtonsoft.com/json>

How to turn JSON data into c# data- <https://www.codeproject.com/Tips/397574/Use-Csharp-to-get-JSON-Data-from-the-Web-and-Map-i>

Class Diagram: https://www.lucidchart.com/invitations/accept/a62c831f-bb66-4ac3-bdc7-8ecd3354d253

**Constraints-**

Hardware- Laptop/PC vs Server

Language- Desktop app vs Web app  
Type of API- Complexity vs Performance

**Use Case**

User opens app

App will show list of currencies

Use selects multiple stocks

User enters trading rules for buying

User enters trading rules for selling

Fetch live data of stocks

Display data on graph

When data meets trading rule, prompt alert to user

<https://www.lucidchart.com/invitations/accept/c3b487bb-3fb5-4e54-b17f-7c1af8bac56c>

