

RISE Project Update

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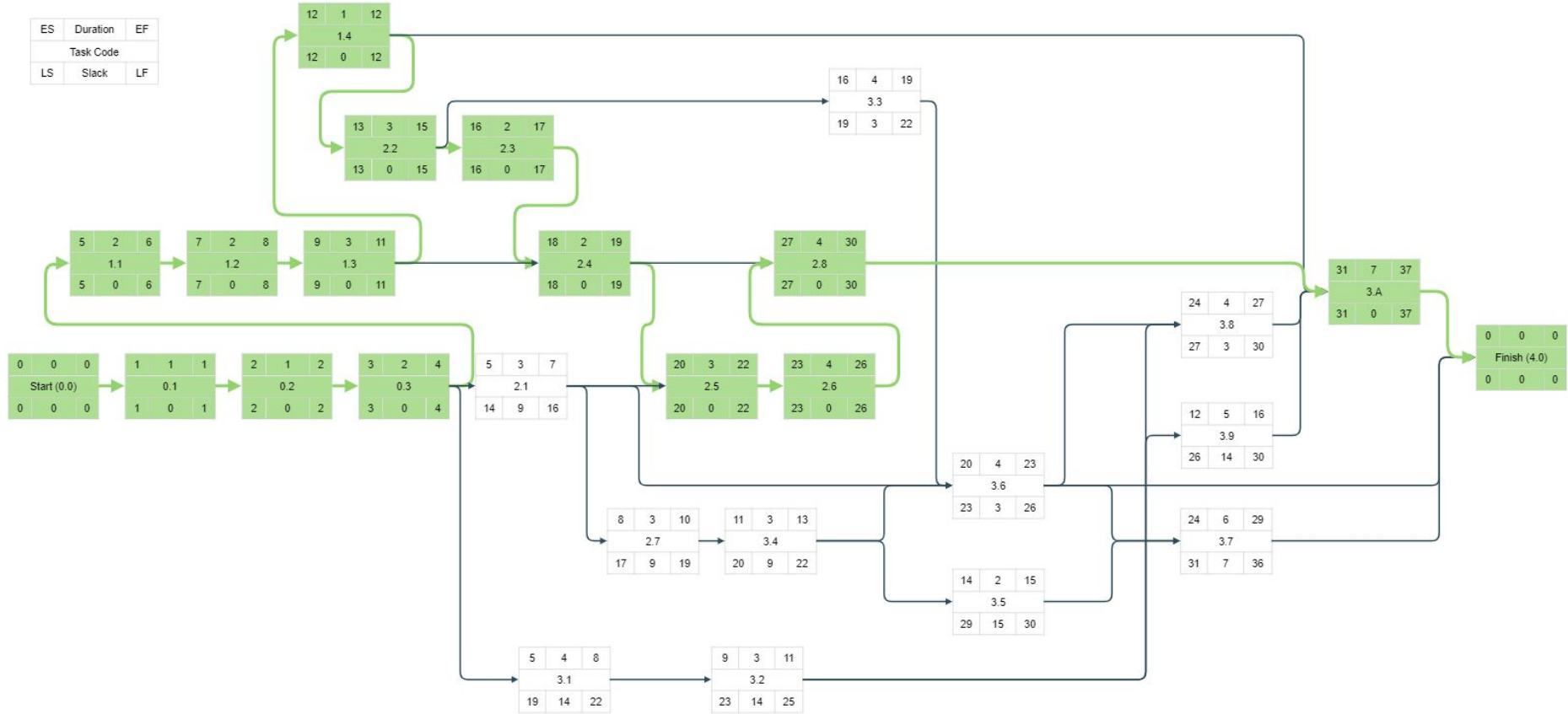
Requirements

- APIs
 - Currently using **AlphaVantage** Free Stock Market API
 - Contacting Bloomberg (through Zarb School of Business) for alternative data feed
- Three areas to pull request from
 - Core Time Series Stock Data APIs
 - Company Overview - Fundamental Data
 - News and Sentiment - Alpha Intelligence
- UI
 - **Static version outlined** using CSS Flexbox
 - Major elements given class and ID tags for targeting in JS scripts
- Database
 - New stock data has been tested for being uploaded to a database
 - Ticker symbol database has not been created yet

Scheduling

- | | | | | | |
|----|--------------------|-----------------------|-----|----------------------|----------------------|
| 1. | START | (0.0) | 6. | Website Outlining | (3.1 - 3.4) |
| 2. | Team Organization | (0.1 - 0.3) | 7. | Backend => Frontend | (3.5 - 3.8) |
| 3. | API Testing | (1.1 - 1.4) | 8. | Additional Features | (3.9) |
| 4. | Interpreting JSONs | (2.2 - 2.4) | 9. | Error Handling/Edits | (1.4, 2.8, 3.7, 3.A) |
| 5. | Database Creation | (2.1, 2.5 - 2.8, 3.4) | 10. | FINISH | (4.0) |

| | | |
|-----------|----------|----|
| ES | Duration | EF |
| Task Code | | |
| LS | Slack | LF |



Major Risks Encountered

- API Selection and Management is the largest risk of the project, as all other operations rely on it
- Initially, IEX Cloud was selected
 - Their Student Package offered sufficient request speed and hourly request limits according to the Requirements Specification
 - The Student Package was **removed mid-testing**, meaning our progress regressed
- Solution:
 - By contacting several resources, including Dr. Jeffreys and the other Stock Data Team, we were able to find **AlphaVantage** API
 - We are awaiting a response from AlphaVantage regarding the potential expansion of our API Key, as the free plan is limited to 100 requests per day
 - If no response is received from AlphaVantage, alternative APIs are being investigated concurrently, primarily Bloomberg's Stock Data API

Progress Against Our Project Plan

Total Duration Passed: 16 work-days

Expected Task Position on Critical Path: 2.3

Current Task Position on Critical Path: 2.2

Solution:

- API is a necessary part of the project, so excess features may be cut from other areas
- More manpower will be provided to the tasks 2.2 - 2.6

Completed Tasks:

- 0: 0.1, 0.2, 0.3
- 1: 1.1, 1.2, 1.3, 1.4
- 2: 2.1
- 3: 3.1, 3.2, 3.3

Prototypes

Logo Image

Here is some sample text in the search bar area.

Description Page/Popup

Contact Page/Popup

Account Popup

Stock #1

Stock Price

Stock #2

Stock Price

Stock #3

Stock Price

Stock #4

Stock Price

Stock #5

Stock Price

Stock #6

Stock Price

Stock #7

Stock Price

Stock #8

Stock Price

Apple Inc [\$AAPL] -- Share Price -- Profit/Loss

Date/Time

Main Graph Display

Today

Stock Name:
Apple Inc - AAPL

1 Week

Market Open:
\$117.35

1 Month

Daily High:
\$123.47

3 Months

Daily Low:
\$115.66

1 Year

[Article #1](#)

Image
of
Article
#1

[Article #2](#)

Image
of
Article
#2

Here is some sample text for the footer area. It is to test element sizing.