**Sprint 01 Document**

*30 Day Report (part 1)*

**NOTE**: There are links to online resources on Trello as well as further information that will help you.

**Purpose**

1. Create a REST API such that a user can find the daily stock data for a requested company within the last 30 days.
2. Create a high-level JAVA based GUI that allows users to interact with the REST API as easily as possible.
3. The companies supported by this REST API include those with symbols: RFEM, GOOGL, and AAPL.
4. Each record contains the date, open, close, high, low, and volume.

**GUI [EMILY]**

1. The GUI allows the user to click on a button specifying the company they request information on (Google, Apple, RFEM).
2. The GUI shows the data provided by the REST API in a table.

**REST REQUEST – CLIENT [MIKE]**

1. The **ServerRequestHandler** class makes the REST request to our server and parses the response.
2. The **ServerRequestHandler** class should be defined using the interface provided in the project workspace.
3. The request looks like fproject-se.ddns.net?company=X&date\_start=Y&date\_end=Z where:
   1. X is the requested company
   2. Y is thirty days from the current day
   3. Z is the current day

**REST REQUEST – SERVER [ROB]**

1. The server runs a PHP script every morning using CRON that:
   1. Requests data from IEX CLOUD
   2. Adds any data from the request that does not already exist in the DB (to the table v2\_TRADING\_DAYS).
2. When a user requests fproject-se.ddns.net?company=X&date\_start=Y&date\_end=Z:
   1. Index.php makes a MYSQL query to select the data being requested.
   2. SELECT \* FROM v2\_TRADING\_DAYS WHERE symbol=X and date between date\_start and date\_end;
   3. Index.php returns the data in JSON format

**REST REQUEST – TEST [FRANCIS]**

1. Test the following link in your browser and look through the JSON response to make sure the data being shown is appropriate.
2. Try combinations of inputs that should work.
3. Try lowercase / uppercase letters in strings.
4. Try things that definitely should not work (start date is after end date, symbol does not exist, etc.)

[fproject-se.ddns.net?symbol=X&date\_start=Y&date\_end=Z](http://fproject-se.ddns.net/?symbol=X&date_start=Y&date_end=Z)

this should output data for all days between Y and Z from tuesday to friday (within the last five years).