QUICKR\_PICKR (PROJECT 1)  
USER STORIES (Requirement Definition) DOCUMENT  
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**Project Definition:**

Development of stock picker where we have the user provide us with indicators and application will output stocks that meet the criteria of what the user is looking for.

1. Main file that asks user question getting idea of what they are looking for in stocks.
2. Based off of criteria provided, application will calculate the information from API and will provide stocks user would be interested in.
3. Company information with visual charts and details.

Coding in the following: JupyterLab, VS Code

**Data:** Yahoo Finance (yfinance), using S&P 500 stocks

**Indicators:**

* RSI
* SMA50%
* MACD
* MACD-Low Divergence
* Total Debt
* Debt to Equity
* Market Capitalization
* Forward P/E

**End to End flow:**



**Feature# FE001**

**Feature Functionality:** Questionary A with Options YES/NO, where:

• Option "NO" returns the user back to homepage, and

• Option "YES" display Questionary B with Options YES/NO.



**User Story# US001**

As a user, I want to have a functionality that:

A python program (quickr\_pickr.py) has a primary Questionary A with 2 Options YES/NO;

So that, In case if a user picks Option "NO" it sends the user one step back to homepage with "Goodbye" message, or If a user picks Option "YES" then it display the other Questionary B with 2 Options: Short Term/Long Term Period Momentum Data to choose from.

**Acceptance Criteria:**

* On running a function: "quickr\_pickr.py" it must perform the questionary A's functionality by displaying the welcome message with options (YES/NO), otherwise it fails the purpose.
* On choosing questionary A's option "NO" it must display the one step back to user with "Goodbye!!" message, otherwise it fails the purpose.
* On choosing questionary A's option "YES" it must display questionary B's criteria with options (Short Term/Long Term), otherwise it fails the purpose.

**Feature# FE002**

**Feature Functionality:** Questionary B with Options Short Term/Long Term Indicators, where:

• Option "Long Term" display the Momentum Data for long term period, and

• Option "Short Term" display the Momentum Data for short term period.

And, both options leads to Questionary C as a confirmation message with options YES/NO.



**User Story# US002**

As a user, I want to have 2 functionalities that:

1. Questionary B will display 2 Options SHORT TERM/LONG TERM;

So that, In case if a user picks either Option "SHORT TERM" or "LONG TERM" it always sends the user to next Questionary C to get the confirmation for downloading the Momentum Data.

2. Questionary C will display 2 Options YES/NO;

So that, In case if a user picks "NO" then it sends the user one step back to homepage with "Goodbye" message, or If a user picks Option "YES" then it display the Momentum Data for Top 3 Tickers of S&P500.

**Acceptance Criteria:**

* On choosing questionary B's option "Long/Short Term" it must display questionary C's confirmation message with options (YES/NO), otherwise it fails the purpose.
* On choosing questionary C's option "NO" it must display the one step back to user with "Goodbye!!" message, otherwise it fails the purpose.
* On choosing questionary C's option "YES" it must display the momentum data for Short/Long Term Indicators, otherwise it fails the purpose.

**Feature# FE003**

**Feature Functionality:** Questionary D offers multiple Options of Indicators to choose from, where:

* Each Indicator (option) display Questionary E with multiple Options to choose from, and
* Questionary E for chosen "Indicator" display 3 options: "Chart", "Info" & "Neither"



**User Story# US003**

As a user, I want to have a functionality that:

Questionary D will display the List of all Indicators: "High Total Debt", "Low Total Debt", "High Debt to Equity", "Low Debt to Equity", "Market Cap", "Forward PE" to choose from

So that, In case if a user picks either one it always return the Indicator Values with Momentum Data and leads to Questionary E for further options.

**Acceptance Criteria:**

* On choosing questionary C's option YES, questionary D must display all Indicators (Product) as options to select, otherwise it fails the purpose.
* On choosing questionary D's option (Indicator), it must display the Momentum Data, otherwise it fails the purpose.
* On choosing questionary E's option (Indicators), it must display the 3 options: Chart, Info & Neither, otherwise it fails the purpose.

**Feature# FE004**

**Feature Functionality:** Questionary E with Options "Chart", "Info" & "Neither", where:

• Input Parameter Value is required as: "Ticker"

• Option "Chart": Display the visual (chart) for input parameter value "ticker"

• Option "Info": Display the detailed information for input parameter value "ticker"

• Option "Neither": Display the exit confirmation and returns the user back to homepage.



**User Story# US003**

As a user, I want to have a functionality that:

Questionary E will display 3 Options to choose from for more details to be shared with user such as: "Charts", "Info" & "Neither".

So that, In case if a user picks option "Charts" then it display the Price & MACD figures in visual chart for requested S&P500 "ticker" value. Similarly, if a user picks option "Info" then it display all relevant detailed information about the requested S&P500 "ticker" value. AND, if a user picks option "Neither" then it sends the user back to homepage with "Goodbye!!" message.

**Acceptance Criteria:**

* On choosing questionary E's option "Chart" and passing the input parameter value "Ticker", it must display the Chart for desired ticker, otherwise it fails the purpose.
* On choosing questionary E's option "Chart" and passing the input parameter value "Ticker", it must display the Chart for desired ticker, otherwise it fails the purpose.
* On choosing questionary E's option "Neither" and it must ask the "exit" confirmation & display the "Thank you" message, otherwise it fails the purpose.