|  |  |
| --- | --- |
| DataCollector | |
| Connect and obtain data from an API  Process and clean stock data |  |

|  |  |
| --- | --- |
| Stock | |
| A Stock Class that stores individual stock information  i.e. Ticker, Date, Price (HashMap<Date, price>) etc | Obtains the data from DataCollector  Stocks and Transactions together form a Portfolio |

|  |  |
| --- | --- |
| Transaction | |
| Has ticker, date and quantity  Handles input exceptions (or in a different class) | Stocks and Transactions together form a Portfolio |

|  |  |
| --- | --- |
| Portfolio | |
| A portfolio class that takes in a collection of stocks, and a collection of transactions  Add a stock(String ticker, int quantity)  Remote a stock(String ticker) | Outputs to StockCalculator |

|  |  |
| --- | --- |
| StockCalculator | |
| Has Portfolio  Methods for calculating relevant metrics and performance data |  |

|  |  |
| --- | --- |
| GUI | |
| Has Portfolio  Methods for visualizing the composition of portfolio and value of portfolio over time |  |

|  |  |
| --- | --- |
| User | |
| Stores relevant information about the user  How much money / user settings/ preferences  User email address  For extended features, information about trading strategy |  |

|  |  |
| --- | --- |
| Strategy (expanded featureset) | |
| Methods for implementing and executing various trading strategies. |  |