**Documentation**

**Data\_Analysis\_Interface(ABC)**

“””This is an interface for the acquisition, analysis, and storage of data”””

**@abstractmethod scrape\_web()**

“””Scrape web for data”””

**@abstractmethod store\_data()**

“””Store data from initial scraping”””

**@abstractmethod analyze\_data()**

“””Perform calculations on initial scrape data”””

**@abstractmethod store\_analysis()**

“””Store calculated data”””

**Companies(Data\_Analysis\_Interface)**

“””This class handles data acquisition, data analysis, and data storage related to companies”””

**scrape\_web()**

“””Access websites from save file and scrape them for relevant data”””

**store\_data()**

“””Store data obtained from initial scraping”””

**analyze\_data()**

“””Perform calculations on data obtained from initial scraping to obtain more data”””

**store\_analysis()**

“””Store new data with the old data”””

**get()**

“””Get functions: ways to get the new and old data (as strings/well formatted chunks) so one can populate report with information by calling get functions”””

**News(Data\_Analysis\_Interface)**

“””This class handles data acquisition, data analysis, and data storage related to recent news”””

**scrape\_web()**

“””Access websites from save file and scrape them for relevant data”””

**store\_data()**

“””Store data obtained from initial scraping”””

**analyze\_data()**

“””Perform calculations on data obtained from initial scraping to obtain more data”””

**store\_analysis()**

“””Store new data with the old data”””

**get()**

“””Get functions: ways to get the new and old data (as strings/well formatted chunks) so one can populate report with information by calling get functions”””

**Portfolios(Data\_Analysis\_Interface)**

“””This class handles data acquisition, data analysis, and data storage related to top performing

stock portfolios”””

**scrape\_web()**

“””Access websites from save file and scrape them for relevant data”””

**store\_data()**

“””Store data obtained from initial scraping”””

**analyze\_data()**

“””Perform calculations on data obtained from initial scraping to obtain more data”””

**store\_analysis()**

“””Store new data with the old data”””

**get()**

“””Get functions: ways to get the new and old data (as strings/well formatted chunks) so one can populate report with information by calling get functions”””

**Report**

“””This class handles the creation of a formatted report and populating it with information”””

**gather\_company\_data()**

“””Gather and analyze data relevant to an evaluation of a company’s wholistic value”””

**gather\_portfolio\_data()**

“””Gather and analyze data from a top earning stock portfolio relevant to a specific company”””

**gather\_news\_data()**

“””Gather and analyze data from recent news relevant to a specific company”””

**select\_template()**

“””Select a specific format for the report”””

**run\_ranking\_algorithm()**

“””Run a ranking algorithm for a given information’s importance relevant to other information”””

**populate\_template()**

“””Write data to a template and create a readable report”””

**log\_report()**

“””Create an automatically generated file name to store the report under”””

**store\_report()**

“””Save report to a designated folder”””

**load\_report()**

“””Get report from a designated location”””

**wait\_for\_time()**

“””Wait until scheduled time”””

**issue\_report()**

“””Send report via a selected method of communication”””

**gather\_data\_chunks()**

“””Gather relevant data to populate report”””

**build\_report()**

“””Build a report with relevant information in the format of a specified template”””

**save\_report()**

“””Log and save report to a designated folder”””

**get()**

“””Standard object attribute get methods”””

**Stock\_Tracker**

“””This class automates tracking specific stocks and sending daily reports”””

**grab\_stocks()**

“””Return stocks recorded in text file document”””

**create\_report()**

“””Create a formatted report with relevant information and save it”””

**send\_report()**

“””Load and send a saved report at a scheduled time”””