ECE 421 Project 1: Stock Market Monitor

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Qi Zhou

Tianyuan Fang

Jakob Lau

**Design Rationale:**

This application is designed to retrieve the latest stock shares data for the current trading day by using Alpha Vantage API then return the stock with the highest price, with a value less than 500. There is a limitation of 5 API requests per minute and 500 requests per day. The original imperative code used for selecting high shares will be refactored to a functional style.

In the design of the program, we will be rewriting the PickShareImperative class to create a new class called pickShareFunctional. This class will feature a static method called findHighPriced, which takes a stream of strings as input. By utilizing the JDK's specialized functional-style method, we can more easily compare and filter the data.

To streamline the process, we first use the map() method to convert the input strings into ShareInfo objects, which are easier to work with for further comparison and filtering purposes. Next, we use the filter() method to eliminate shares with a price above 500 dollars. Finally, we utilize the max() method to identify the share with the highest price among the filtered results. It's worth noting that we did not use the pickHigh method as max requires a comparator."