Macedonian Stock Anaylizer

Overview

Macedonian stock analyizer is a platform where you can track data about all of macedonian stocks on the free market and predict outcomes of macedonian stock based on 10-years worth of data. In future references of the application in this document it will be referenced as the mac bot.

Functional Requierements

- The macbot will launch a custom GUI for easier usage and tracking of the companies and stocks
- The macbot uses a pipe and filter system to propagate the data into a pipe flow where data is being processed in different segments of the code
- The application flow consists of a GUI launcher where you send the command and it is received by the CommandHandler, where it starts the pipe and filter flow where data is collected and sorted
- The macbot uses libraries such as BeautifulSoup to scrape the data from the web and Selenium to update launch healdess browsers where it dynamiclly changes the dates so the data can be collected
- The macbot has a custom made console made for easier usage and faster retrival time from the data base (web scraping)
- The macbot shall automaticly scrape the data from web regarding filling the initial data-base (csv files for now) and all of the future updates
- The macbot shall include a variety of trained AI models to predict the outcome of a desired stock (TBI¹)
- The macbot shall present you a clear chart regarding of the selected stock that you want to track (TBI)

Non-functional Requirements

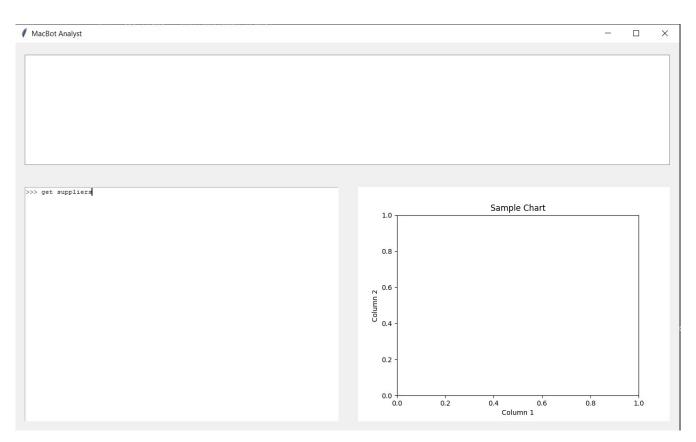
- The macbot is optimized to run in the fastest time, making updates on already fetched data (TBI)
- The macbot is a very scalable application, because it can have multiple users using it on the same collected data
- The macbot is implemented in a certain way to perform every task that it has been given with a 100% convert rate
- The macbot should be avaliable 100% of the time it is running.

• If a crash happens, the system should be ready to start running again in less than a couple minutes

Use Cases and instruction manual

- When you launch the application you can use the help command to get started in our console
- By using the "get" command you can get data about any concrete supplier by using for example "get ALK" retrieves data for alkaloid and displays it at the table in the custom made GUI
- By using the "get" command with the keyword suppliers ("get suppliers"), you can get the data from all of the known suppliers in the free-market of the Macedonian stock exchange and it is going to be automaticly displayed in the custom GUI table

Photo gallery of the custom GUI



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This document is subject to change as the project is continued through the semeter.

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