Arine Front End Take Home Assignment

Arine Software Engineer - React

Problem

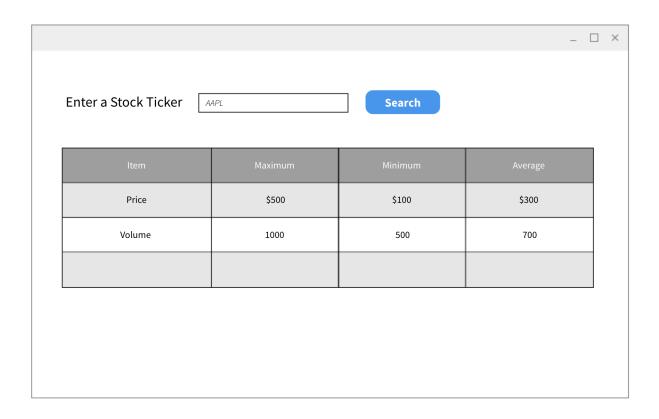
Look up and display stock quote results.

Solution

Build a single page application which allows input of a stock ticker and displays the following for the date range 1/1/2020 until 12/31/2020.

- A. Average stock price in the given range (in this example it is from 1/1/2020 until 12/31/2020).
- B. Maximum/Minimum volume in the given range
- C. Maximum/Minimum stock price in the given range

WireFrame



Constraints and Requirements

- The React App should be composed of two components with a parent child relationship.
 The parent component should pass the ticker to be searched to a child component which displays the results.
- 2. CSS or SCSS for styling is preferred.
- 3. The use of React Hooks is required.
- 4. The use of Redux to store the result of the API is required.
- 5. Generate report function:
- 6. Given this API:

 https://api.polygon.io/v2/aggs/ticker/AAPL/range/1/day/2020-01-01
 /2020-12-31?apiKey=taIMgMrmnZ8SUZmdpq9 7ANRDxw3IPIx
- 7. No need to parameterize the dates range or the stock ticker in the api call

API RESPONSE OBJECT { "ticker": "AAPL",

Where:

- Results array
- O number: The open price for the symbol in the given time period.
- H number The highest price for the symbol in the given time period.
- L number The lowest price for the symbol in the given time period.
- C number The close price for the symbol in the given time period.
- V number The trading volume of the symbol in the given time period.
- VW number The volume weighted average price.
- T integer The Unix Msec timestamp for the start of the aggregate window.
- N number The number of items in the aggregate window.

Expected Deliverables

- 1. A working demo (which can run on your local machine).
- 2. A Zoom mtg to walk through your code.

This assignment should take 2 hours to complete...

If you have any questions, please contact me at jrose@arine.io