**Assignment:**

Create REST / JSON API to display top 3 day over day percent moves by absolute value for specified stocks:

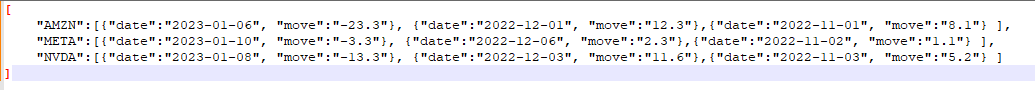
Endpoint: <host>:<port**>/sampleAPI/analysis**

Parameters: **tickers** – comma delimited list of stock tickers (any valid stock ticker)

**range** – time range (1 month to 2 years: 1mo,3mo,6mo,1y,2y)

Endpoint Example: <http://localhost/sampleAPI/analysis?tickers=AMZN,META,NVDA&range=3mo>

Return data format:

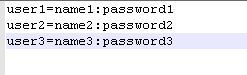


URL to get prices / dates: <https://query1.finance.yahoo.com/v7/finance/chart/AAPL?range=3mo&interval=1d&indicators=quote&includeTimestamps=true>

Please note: the API provides prices (use adjClose values). To calculate absolute day over day percent move, where day1$ -- day 1 price/ day2$ -- day2 price: **100\* abs(day2$/day1$-1)**

**Requirements:**

1. Create SpringBoot Application using Controller/Service pattern
2. Use Maven pom configuration to generate WAR (web-archive) package for deployment on a J2EE server
3. Use Spring Security to support Basic Authentication to access API Endpoint. Use user.properties resource file to store username / passwords. Example format:



1. Commit your code/configuration to a new Github project. Email link to the project when completed.