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=================== TEST EXERCISE ====================
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Stocks

The idea is to make a simple stock simulator game in Angular 2+. You will be given 5 publicly traded companies with their initial stock values from a REST API and you must display information about them on a medium of your choice (table, cards, etc.., see Appendix). The companies will randomly change in value every day (days are counted from day 1 and the user can forward time with a click of a button).

Each item in that list must display the full name of the company (Apple), the ticker symbol (AAPL), it's initial value (1000$), current value (1200$) and the change in value to-date ((Format: 200$, 20%) this means all time change, not daily opening/closing/other change). Change in value to-date must be presented in the following format

1. Absolute change (200$)
2. Percentage of change (20%)

Furthermore, the user must be shown

1. The current day number. Format must be "Day X" (Day 1, Day 92, Day 12, etc.).
2. The simulated date. Format must be "Monday, June 15, 2015". Day 1 corresponds to the current date on the user's computer. Thus Day 3 would be "Monday, June 18, 2015", if the current date on the PC would be June 15, 2015.

The user must be able to make the following interactions with the application

1. Forward time globally by 1 day, with a click of a button. Each time a day passes, the value of each company must rise or fall +-10%. The fluctuations must be random, in that range and the each company must be generated a separate change in value.

Other notes

1. Brainbase pays attention to typing - public isOpen: boolean; (not: public isOpen;).

Appendix

REST API URL: https://staging-api.brainbase.com/stocks.php

A (crude) representation of what I mean to get some context, but you can use any kind of design/UX that you see as the most fitting for this scenario. PS. This example table does

not have all the data points that are required in the task and contains design elements that are not needed in this test exercise.

Stock Market Overview
Day 1

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Index	Value	Change Net / %
NASDAQ	7734.49	87.47 ▲ 1.14%
NASDAQ-100 (NDX)	7401.88	77.75 ▲ 1.06%
Pre-Market (NDX)	7364.39	40.26 ▲ 0.55%
After Hours (NDX)	7409.13	7.25 ▲ 0.10%
DJIA	25532.05	207.06 ▲ 0.82%
S&P 500	2834.41	22.54 ▲ 0.80%
Russell 2000	1543.06	20.06 ▲ 1.32%

Data as of May 14, 2019