zenskar

Stock Market Price Explorer

This is an exercise to test skills across the stack. The objective is to set up a full-stack web application with a backend REST API server and a frontend layer that fetches data from this API. Your application will be evaluated for clear understanding and interpretation of the problem statement and code structure/clarity.

Requirement

1. Setup a backend application with a 'Stocks' model containing at least 3 fields - Stock, Date and Close Price.
2. Download stock close prices from any exchange. For example, to download these from the National Stock Exchange (NSE) in India, you can download a specific day's close prices from here. Select Report 'bhavcopy', select the date for which you'd like to download, and download the fetched file.
3. Load these prices into the 'Stocks' model from Step 1. For this assessment, you only need to use the entries that have “EQ” in the “Series” column.
4. Write a script that, given a start date and optionally an end date, downloads these files automatically and loads them in the database. If you skip this section, it is fine if you download files for 8-10 dates manually and load them into the database one at a time.
5. Add an API endpoint to retrieve stock prices from this model. The design and features you decide to add to this API are up to you
6. Create a frontend application that fetches and displays stock prices from the above backend server specified by user input. You can take a stock name, start date and end date from a user and display corresponding close prices. It is recommended that you use a framework like Reactjs.

Instructions for Submission

Please use a private github repository for your development. We would prefer that you use the repository during development with regular commits and clear commit messages, instead of just one commit with the whole submission. Once complete, please add a readme with detailed deployment instructions and give saurabh@zenskar.com access to the repository. Once this is complete, please schedule a slot for a demo & discussion of your code here.