Sensibull Frontend Developer Programming Challenge

Problem Statement

- We have provided 2 APIs that give a list of stocks and their prices (See 'Input API Details' section below.)
- Create web application with the following 2 pages
  - Stocks page
    - Display a table listing the symbol, name and category for each instrument
    - Provide a search box that fuzzy searches the symbol and name and filters the list of stocks shown in the table
    - On clicking any symbol, user must be redirected to quotes page for that symbol (see below)
    - For this page, load data from `/instruments` API (see 'Input API Details' section below)
  - Quotes page
    - For the selected instrument, show the list of quotes
    - The quotes must be sort-able by timestamp ascending or descending
    - Please refresh the quotes when the `valid_till` timestamp for the data expires
    - For this page, load data from `/quotes` API (see 'Input API Details' section below)
- Please make the pages look nice

Technical Requirements

- The submission must use React.
- You may use any third party npm libraries.
- You can use any third party CSS frameworks as you want (eg. material-ui, bootstrap etc.) or write vanilla CSS.

Submission

- Please create a `tar.gz` file containing a git repo of the solution and upload it to a shared Google Drive/DropBox folder, and share that link with us.
  - **NOTE**: Please remove `node_modules` directory before creating the `tar.gz` file.
- Use Git for version control.
  - We would like to see the Git metadata (the .git folder) in the tarball so we can look at your commit logs and understand how your solution evolved.
  - Frequent commits are a big plus.
- Please make sure that the code has the necessary instructions to build the frontend and run the dev server.
  - Please make sure that the build instructions are simple, for eg. something like

    `npm install && npm run build && npm run start`
- Please include a file detailing any design / architecture and any potential improvement if needed.

- Do not make either your solution or this problem statement publicly available by, for example, using GitHub, Gitlab or Bitbucket or by posting this problem to a blog or forum.

Input API Details

Instruments API

(NOTE: This API is provided by Sensibull)

Endpoint: `https://prototype.sbulltech.com/api/v2/instruments`

Method: `GET`

Response: CSV with list of instruments

Example:

Request

```
curl 'https://prototype.sbulltech.com/api/v2/instruments'
```

Response

```
Symbol,Name,Sector,Validtill
BAJFINANCE,Bajaj Finance Ltd.,Financial Services,2021-10-29 08:59:06
KSCL,Kaveri Seed Company Ltd.,Consumer Goods,2021-10-29 08:59:06
DLF,DLF Ltd.,Construction,2021-10-29 08:59:06
RELCAPITAL,Reliance Capital Ltd.,Financial Services,2021-10-29 08:59:06
```

Quotes API

(NOTE: This API is provided by Sensibull)

Method: `GET`

Endpoint: `https://prototype.sbulltech.com/api/v2/quotes/{symbol}`

Response: Array of quotes for the given symbol

Example:

Request

```
curl 'https://prototype.sbulltech.com/api/v2/quotes/SBIN'
```

Response

```
{
  "success": true,
  "payload": {
    "SBIN": [
      {
        "time": "2021-10-28 12:03:46",
        "price": 17388.932633802062,
        "valid_till": "2021-10-28 12:03:48"
      },
      {
```

```json
      "time": "2021-10-28 12:05:22",
      "price": 16644.677657986853,
      "valid_till": "2021-10-28 12:03:22"
    },
    {
      "time": "2021-10-28 12:07:59",
      "price": 17399.191923387705,
      "valid_till": "2021-10-28 12:03:03"
    }
  ]
 }
}
```