

Flipr Hackathon XVI

Full-Stack Web Development Task

Theme: Stock Market & Companies

Problem Statement

The problem statement is divided into three parts:

- Frontend Work
- Backend Work
- Deployment Work

Backend Work :

- 1) Create an API for the stock market index (NSE & BSE)/(Nifty/Sensex)
- 2) Create an API for the companies where a user can extract data of the respective companies (Reliance, Ashok Leyland, Cipla, Tata Steel, Eicher Motors)
- 3) Create an API for user registration and login.
- 4) Create a Database where you have to store the stock market index and company data.

Frontend Work :

Please implement the given responsive design, which should support mobile and desktop browsers. Also, connect the web pages with the respective APIs

- 1) Create a user registration and login page as per your design sense.
- 2) Here you have to show the NSE & BSE Data in the design by selecting the NSE or BSE through the dropdown bar as shown in the top-left side of the image. Connect the design with the stock market index API.

Assumption:

***Take Current Date : 12th Feb 2023**

NIFTY 50

17,972.15

▲ 113.95(0.64%)

As on 13 Jan, 2023 13:25 IST

Day Range

17,774.25

17,976.40

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52 week Range

15,183.40

18,887.60

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Returns

YTD



3.55%



10:00

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Open	17,867.50	Day Low	17,774.25
Previous Close	17,858.20	52 Week High	18,887.60
Day High	17,976.40	52 Week Low	15,183.40

- In case you don't know the backend, please at least create the respective design.
- 3) Here you have to show the company data in the graph form as shown in the image. You can select any graph type, it is not compulsory for it to look similar to the design image.
- Users can change the company through the dropdown button as shown in the top-left side of the image.

Assumption:

***Take Current Date : 12th Feb 2023**



We have also attached the design images in the design folder.

- **In case you don't know the backend, please at least create the respective design.**

Deployment Work :

- 1) Upload the code on any version control like github, gitlab, bitbucket
- 2) Deploy the frontend and backend code on any cloud platform like AWS, Microsoft Azure, Google Cloud, Heroku or any other platform.

Instructions :

- Submit the code on or before 10:00 PM, 16th Feb 2023.
- Upload the code in any version control like Git, Bitbucket, etc
- Please provide GitHub, GitLab, or bitbucket repo URL for your assignment.
- Add the instructions in your readme.md file to build and run the app.
- Share all the files and links in this google form -
<https://docs.google.com/forms/d/1j2sx8tn8jBC1YxWx9cWgjVca5P58akO2BYH2FHg47OE>
- **You can refer to the Internet and Books but whatever you code you must understand because if you are going to be shortlisted for an interview then you must be able to explain to the company officials about your code.**