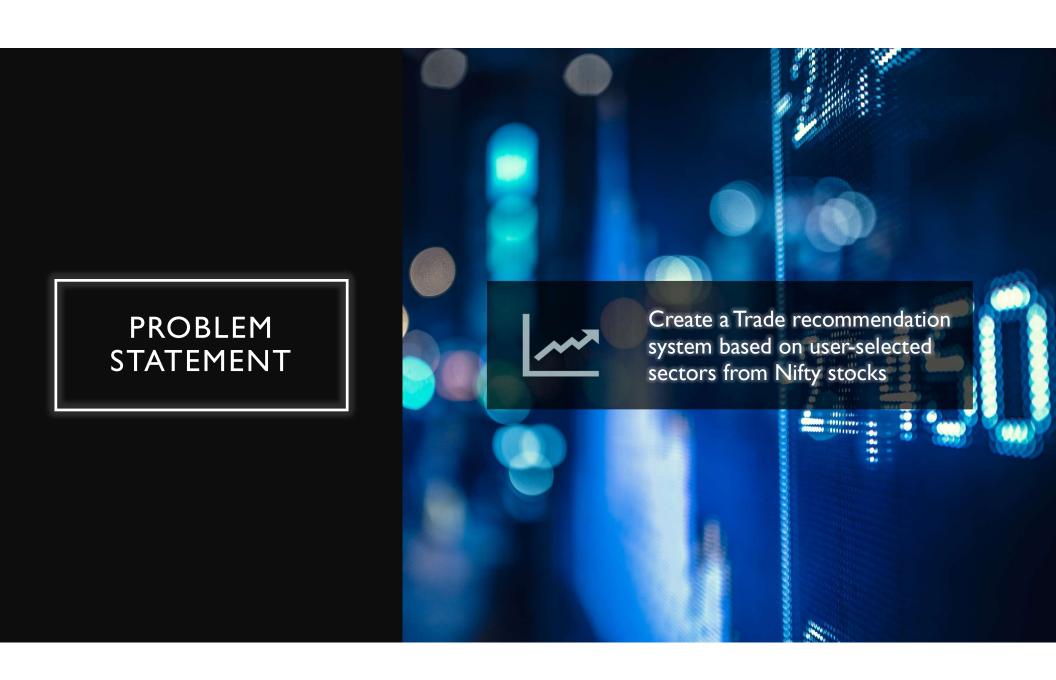
SECTOR BASED TRADE RECOMMENDATION SYSTEM

Group No. 12

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CSV file

• A csv file is created containing Nifty100 stocks along with their respective sectors.



User Login

• Registered user logs in to his account.



Filter based on user-selected sector

• The software reads the CSV file and filters out stocks based on user's selection.



Monitor and Recommend

 The filtered stocks are then analyzed using historic data of up to 14 days and top 5 performing stocks are recommended to the user along with key stats.



Add Stock to watchlist

 The user has an option to add any stock to his watchlist along with it's quantity.

APPROACH (OVERVIEW)





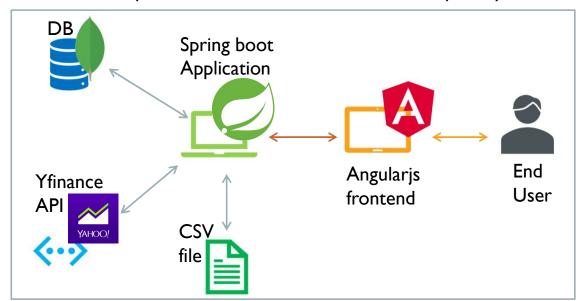






APPROACH (TECH STACK)

- I) Frontend: Created an interactive UI using HTML/CSS/JS and Bootstrap with Angularis to allow user login, display sector based recommendations along with key statistics along with user's watchlist.
- 2) Middleware: Created a spring boot application to -
 - 2.1) Connect to user database for user login and information retrieval (watchlist)
 - 2.2) Fetch ticker symbols from Nifty I 00 CSV file based on user-selected sector.
 - 2.3) Fetch quotes using yFinance API and Recommend top 5 stocks.
- 3) <u>Backend:</u> A Mongodb Database to maintain user data including username, password and saved stocks with their quantity.



IMPLEMENTATION (OVERVIEW)

IMPLEMENTATION (RECOMMENDATION)



*CP = Closing Price

CHALLENGES AND LEARNINGS



Huge Learning curve (both technical and non-technical)



Restarting the project after a break



Time management with the team



Technical challenges



Including stocks beyond Nifty 100

Extending the scope to include BSE

Improving the recommendation logic

Web scraping key news alerts about the recommended companies



THANK YOU

- We sincerely thank Citi for this excellent opportunity.
- We also thank our mentor Nishi for being an excellent guide and helping us throughout the course of this project.