

STOCK PORTFOLIO SUGGESTION ENGINE

Team Members:

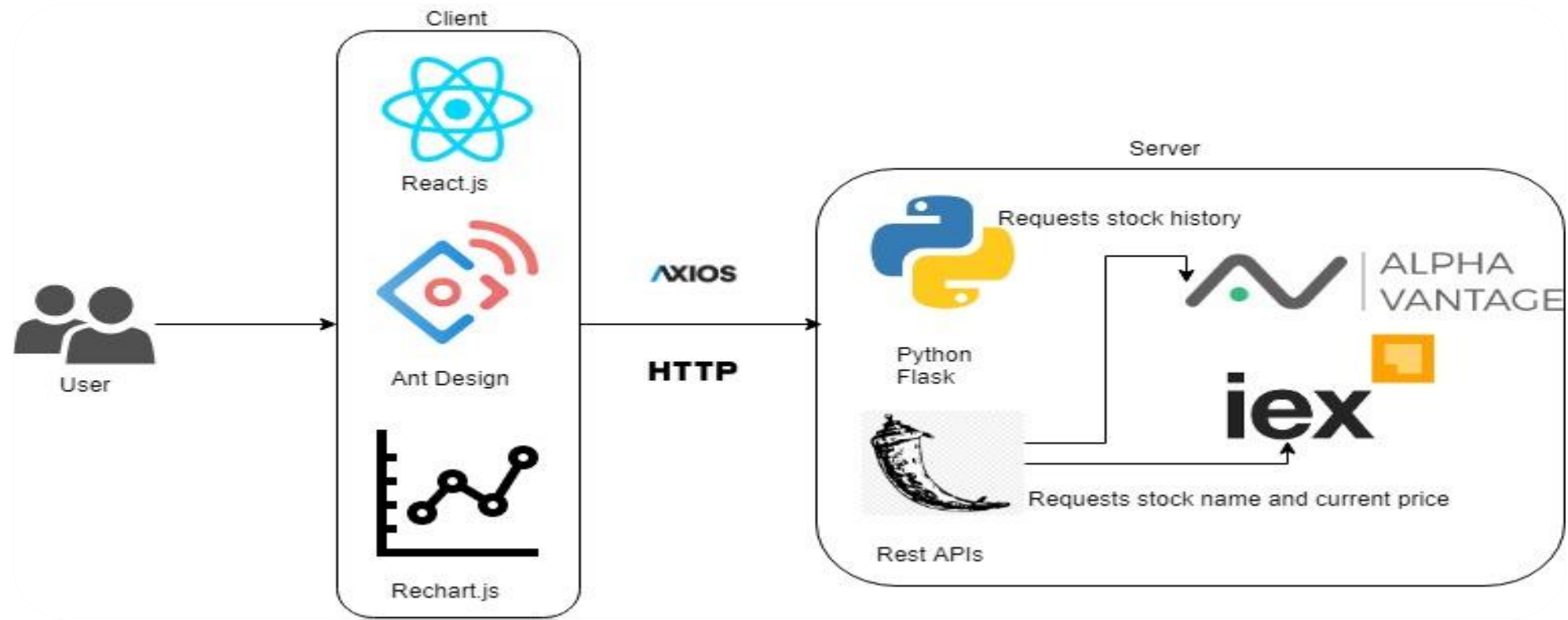
Darshil Kapadia: 013007280

Dhruvil Parikh: 013772720

Guided By:

Prof. Richard Sinn

HIGH-LEVEL ARCHITECTURE



FEATURES



Suggest users the stocks to invest their money in.



Provides a brief introduction to each investment strategy.



Allows users to select different strategies to invest their money.



Divide the investment amount based on the stocks and strategy/s suggested.



Shows current price of each stock suggested



EXTRA FEATURES

- Used real time stock prices to suggest stocks for different strategies.
- Used Ant Design for developing a clean UI.
- Allows users to look at the trend for the last 50 days of each stock suggested.
- Used Rechart.js for easy and clean integration with React.js
- All the graphs shows the highest price and lowest price that the stock hit on any particular day.
- Graphs allow users to study the data properly by showing them the tooltip containing data at every point.
- Allows user to save the charts and tabular data.



CHALLENGES

- Researching about different investment strategies and gaining the required financial knowledge to carry out the project
- Exploring the free APIs that can provide historical and real time stock data.
- Preparing the chart data to give to Rechart.js



USE-CASES AND DEMO

Usecase	Input	Output
1.	Amount is empty and a strategy selected	Invest Button disabled and an error message
2.	Amount less than \$1000 and a strategy selected	Invest Button disabled and an error message
3.	Amount \$3600 and no strategy selected	Invest Button disabled
4.	Amount \$3600 and 3 strategies selected	An alert which says only 2 strategies can be selected.
5.	Amount \$3600 and Ethical Investment strategy selected	Suggestion Generated
6.	Amount \$3000 and Growth Investment strategy selected	Suggestion Generated
7.	Amount \$5670 and Index Investment strategy selected	Suggestion Generated
8.	Amount \$1344 and Quality Investment strategy selected	Suggestion Generated
9.	Amount \$5000 and Value Investment strategy selected	Suggestion Generated
10.	Amount \$8400 and Ethical and Index Investment strategies selected	Suggestion Generated
11.	More than 2 requests within a minute	We'll alert user to refresh after a minute.



THANK YOU

GitHub Link: <https://github.com/darshilpk3/CmpE285-Spring19>