



This finalized mental model encapsulates all of the different components in our Investment Trainer web application with the changes requested by the client. A node server is used to host the web application on the front end, and when a user logs in to the React website, their login information is verified with our backend flask and MySQL database servers, which are used for storing login information and transaction data.

When a user wants to look up or buy a stock, those requests are made to the stock API (Finnhub.io) and sent back to the React server, and then a stock graph is generated using the graph API (plotly.com/python) using the stock data sent from our stock API.

When a user wants to view their Analytics for their account, that input is taken from the React website and given to the Flask server and MySQL database to fetch all of the user's stocks to generate their trade history and display their best/worst trade.

Lastly, when a user goes to the news tab, multiple news articles related to business and stocks are generated using the news API (NewsAPI.com).