International Journal of Research Publication and Reviews

NEO TRADE: A PLATFORM FOR EVERYONE

Sneh Prabha[1], Anjali Pal[2], Bhawna choudhary[2]

[1]*Faculty Inderprastha Engineering College, Ghaziabad*
[2]*Student Inderprastha Engineering College, Ghaziabad*

ABSTRACT

Our Project helps newcomers to learn trading while practicing with virtual money on our platform and not wasting their hard-earn money especially when they are newcomers in the stock market because of Lack of proper knowledge, emotional intelligence while trading, lack of Practice, and Risk management.

1. INTRODUCTION

During the COVID-19 crisis, this year equity market became one of the trending activities in India where a population of 1.2 billion, In terms of population, India ranks second to China.176 million people in India have no access to clean water and there are the worst sanitation levels and medical facilities in the world, according to data from the World Bank [1]. During that difficult time, the stock market was flourishing and burgeoning trade can be attributed to COVID-19[2].

In lockdown an enormous no of individual investors, 142 lakhs have entered the stock markets and trading in the year 2020-21 resulting in increased interest in the stock market, a statement proposed by SBI. 2.3 lakh online traders are registered with the NSE, according to its data earlier when there is no covid [3].

The number of new accounts at CDSL, one of the country's largest securities depositories, increased by nearly 20% in the six months after India imposed its first wave of Coronavirus lockdowns. Last month, 25.7 million new accounts were opened according to separate data from India's market regulator, the Securities and Exchange Board of India. Separate data from India's markets regulator, the Securities and Exchange Board of India, shows that the majority of new accounts were opened by millennial aged 24 to 39.

However, they lack the knowledge, experience, and risk management to trade in choppy markets. During the first few months of trading, many students will also realize that the level of risk involved in trading is too high for them. Even some students may realize that trading involves a level of risk they are not comfortable with.

Some emotional intelligence dimensions have a direct relationship with investment decisions; others have an indirect relationship. John Coates and Joe Herbert, neurologists at Cambridge University, have recently shown that traders' behavior is significantly affected by the levels of hormones, like testosterone, which is strongly associated with emotions [4].

People make different investment decisions depending on their emotional intelligence and behavioral biases. Investment decisions of investors are also influenced by behavioral biases. There are some dimensions of a behavioral bias that are directly related to the investment decisions of investors and others that are indirectly related.

We encourage you to be honest about your experience as a trader. Day trading involves high levels of stress, and dealing with a financial loss almost every day isn't for everyone.

1.1 Motivation

Through our project, our hope is that you will have refined your strategies and developed a sense of emotional composure that will allow you to trade through the fluctuations without losing focus. Until you can prove you can trade profitably in a simulated environment, we recommend you trade in this environment. This application will provide maximum ease to the users, because it is highly user-friendly, and no special training is needed for operating the application. This application is developed with ReactJs as the front-end and NodeJs as the back-end.

For evaluating the effectiveness of any system or application, economic analysis is usually the most commonly employed technique. The tangible benefits intend that as much manual work and burden as possible be minimized, resulting in reduced manpower requirements and cost of manpower. Our web application is responsive in nature and user-friendly.

A conceptual framework for the application can be seen in Figure 1, where users can buy and sell stocks, manage their portfolios, see their login and logout times, and track their profits and losses.

2. LITERATURE REVIEW

A major problem for investors is the lack of financial knowledge and information required to make informed decisions about stock market trading. The objective of this study was to enhance learners' motivation and learning efficiency when participating in a financial management course. When learners learn about objective financial analyses, their minds will not be affected by news or market fluctuations, allowing them to act rationally as investors. We created a web-based virtual stock trading (VST) system that provides the functions for financial ratio analysis to simulate a stock trading environment [5].

Stock trading is still not considered a good profession In India, but online trading has made it easy to trade in the stock market as now that people can trade on the stock market while sitting at home, trading in the stock market has become easier task [6].

People tend to be risk-averse when it comes to gains and risk-seeking when it comes to losses, known as the "reflection effect". There is a much stronger emotional response to loss than to gain of the same magnitude, a phenomenon known as a phenomenon called "loss aversion " but virtual trading helps a new trader make their own strategy when to enter any stock or exit to increase their profit at the end of the month Creating new trading strategies by minimizing both the reflection effect and the loss aversion [7].

3. PROPOSED METHODOLOGY

This whole project has a concept to you a sense of emotional composure that will allow you to trade through the fluctuations without losing focus and will refine your strategies.

Users can trade virtual stocks through the NeoTrade Platform. The proponents developed a web solution that will provide end-users with several modules: User registration, buying and selling stocks, managing their portfolio, and tracking their profit and loss.
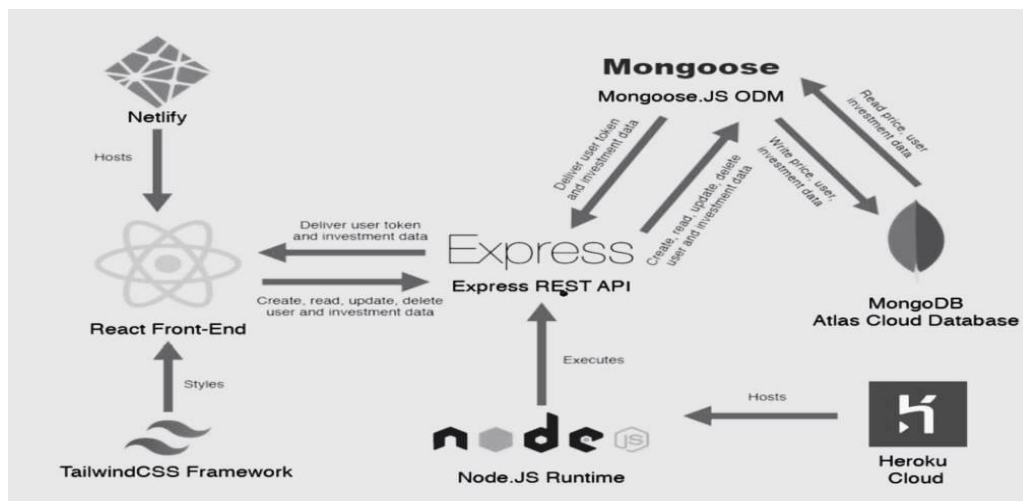

Fig d. Flow of our MERN stack web application

3.1   Sign-up /Login Page

In this section, user can enter their information such as first name, last name, email id etc and password for logging in.
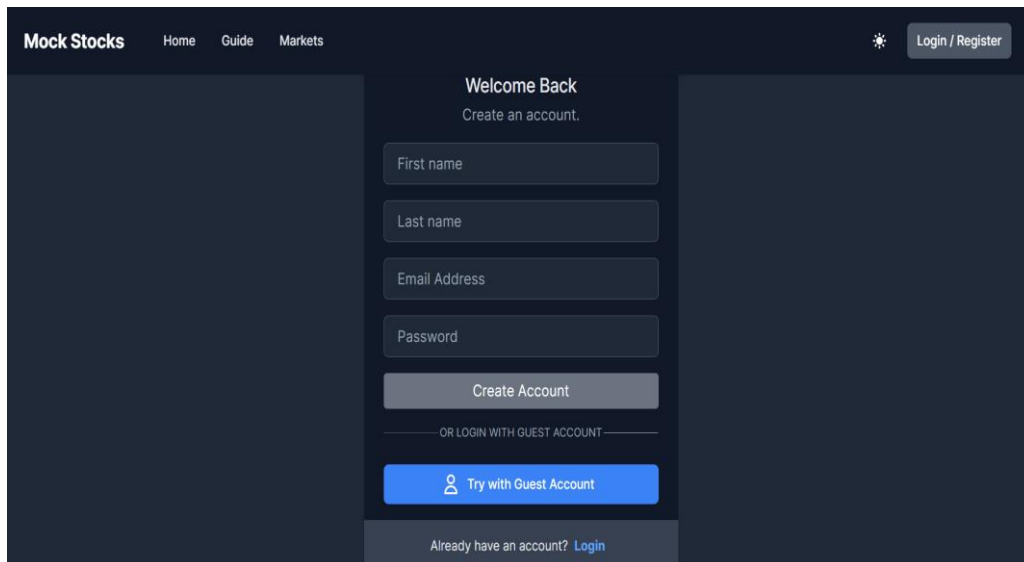
Fig 3.Fig 2. Shows the page where the user can register themselves to use the application.

3.2   Markets

In this section of web application, user can see the current price with thier trend chart, all time high price, IPO Date, the industry of the stock, and other detail of that company's stock to understand the fundamental of the company well before taking a trade
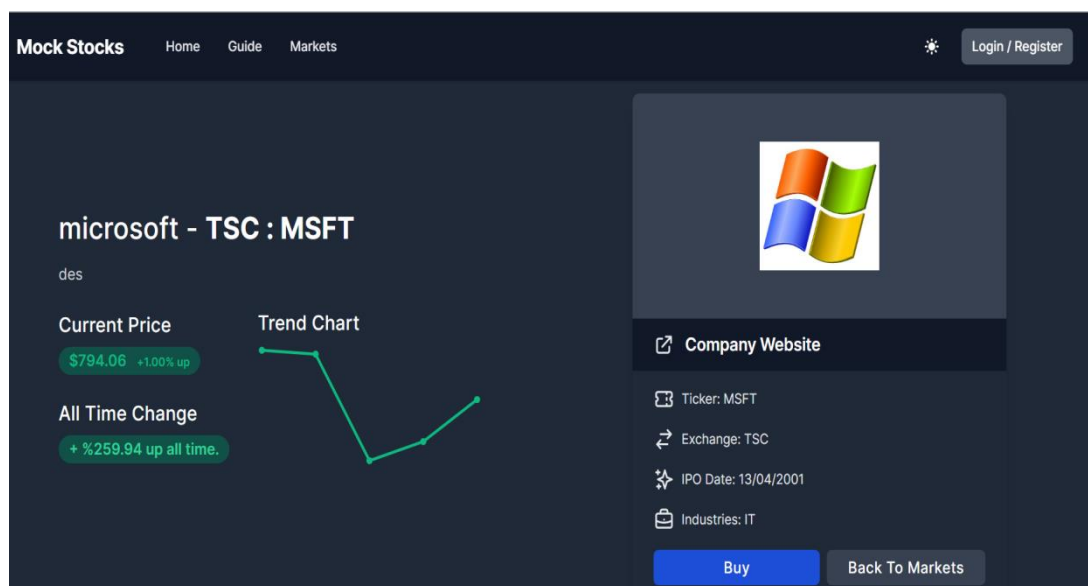

Fig 5. In this, user can see the current price, all time high price, IPO Date, the industry of the stock
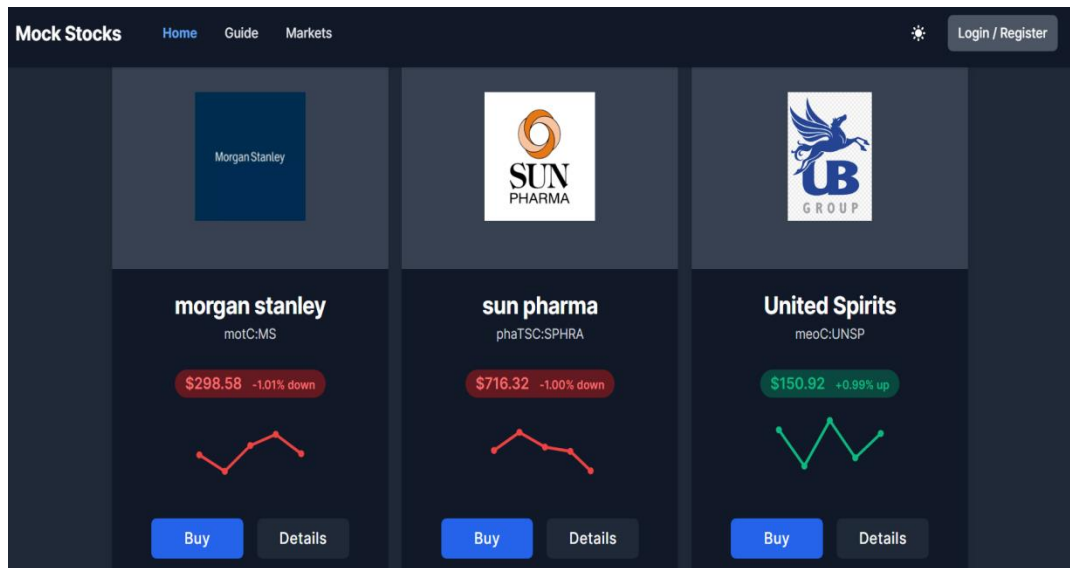
Fig 6. In this, user can see the stock movement and buy/sell the stock

3.3 Investment

In this section, user can see the previous investment with all detail like number of share brought, what investment is used and update the number of shares
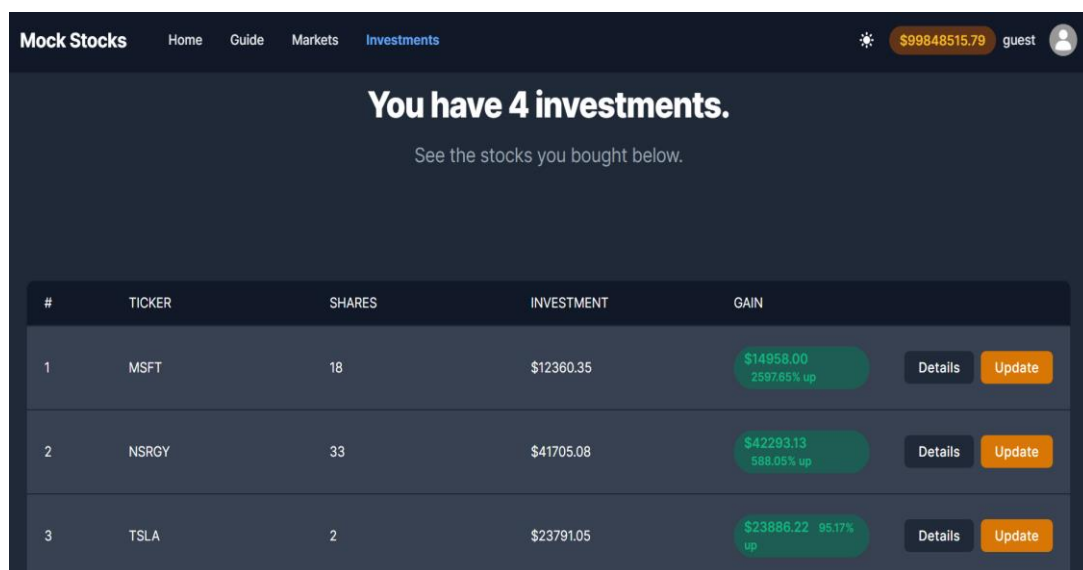

Fig User can see the previous investment

3.4 Profile

In this section, user can see the account details; update their account details, transitional history of the stock and activity logs, the theme they can switch. They can see the stock wise profit and loss with the bar representation.
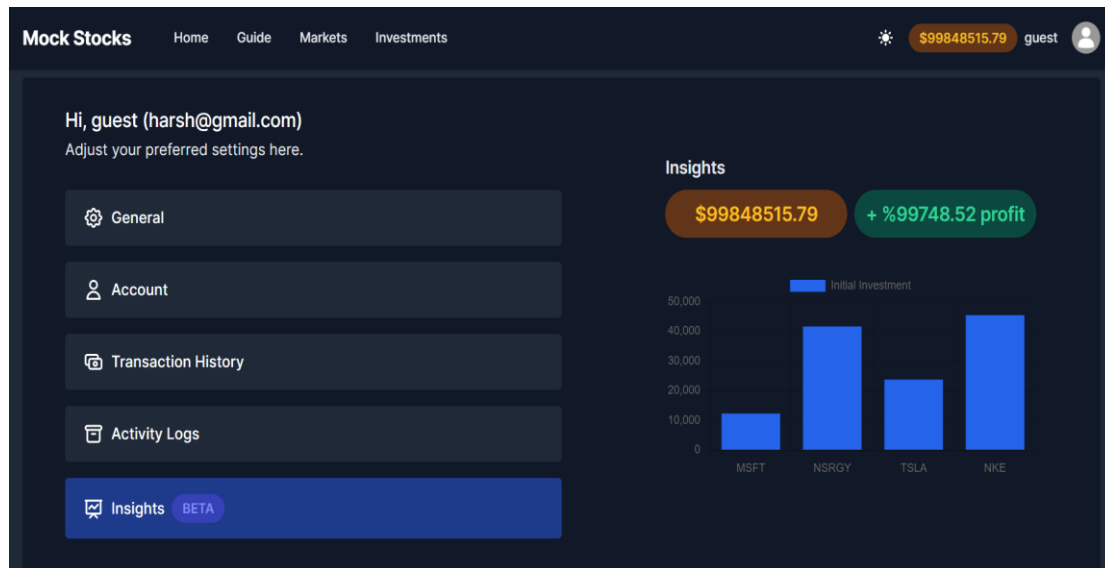
Fig In this, user can update the account detail, see the transition history of stocks and see the loss/profit stock   wise

4.   RESULTS & DISCUSSION

The Web application project was evaluated and assessed at each module's level. The testing was done to check whether the application was working correctly and efficiently after all the required modules had been integrated and developed, and to make sure it met all the requirements.

A test plan was devised for the project which included developing test scenarios, pre-conditions, expected results, etc. that determined whether the codes needed to be improved or if the design needed to be altered, the test cases identified which modules exhibited errors and helped identify the problems early so that they would not recur in the future.

Test Case	Input test data	Expected results	Actual results
Successful user registration	First Name = Bhawna, Last Name= Choudhary, Id=bhawna842@gmail.com, Password = "bhawna123"	Successful registration of user	User successfully Registered
User registration Fail	First Name = Bhawna, Last Name= Choudhary, Id=bhawna842@gmail.com, Password = "bhawna123"	A message "Sorry the id is already in use"	A message "Sorry the id is already in use"

Table 1 shows the test cases done on the user registration page.

Test Case	Input test data	Expected results	Actual results
Successful user Login	Id=anjalipal93@gmail.com, Password = "anjali123"	Successful login of user	User successfully Logged in.
Successful user Logout	Click on logout button	Successful logout of user	User successfully Logged out .

Table 2 shows the test cases done on seller login and logout

5. CONCLUSION AND FUTURE SCOPE

The project has been completed successfully and the application performs well. The application provides platform to new comer in practice their trades with virtual money to get real experience in market. The application will help the user to learn about money management that when to take trade and when to come out from that trade at right time .New features could be added to this project for making this project more productive, reusable and flexible by including the more indicator so that user can have more tools to practice to understand their trading game.

Using the MERN stack is a cutting-edge, robust technology that has overthrown web development platforms. Due to NodeJS's non-blocking approach, concurrency is handled more efficiently. The MongoDB document-oriented, No-SQL database has been shown to perform better, be more flexible, and scale better with new technologies since adopting the JSON data format. Express.JS was developed based on Node.JS to provide developers with a simple framework for working. As for ReactJS - a framework developed by Google to develop SPAs and quickly create stunning interactive user interfaces - it was designed to give developers a simple framework to work on.

New features could be added to this project for making this project more productive, reusable and flexible by including the more indicator so that user can have more tools to practice to understand their trading game.

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