**Chapter 2**

About the system

**2.1. Problem Statement**

Traders and investors are willing to invest their money into many types of assets in day-to-day life. They are required to monitor their investments and execute orders based on their requirement. Online trading platforms will make it easier to trade using such tools and execute orders, monitor positions and watchlist.

**2.2. Aim**

To provide a straightforward solution to the above problem statement with good user interface and proper analysis of past fluctuations and movement of stock represented by graphical interface where traders can buy and sell shares with an easy method. Chart can be of multiple types e.g., candlestick chart, line chart.

**2.3 Features of system**

**2.3.1 User Registration**

New users would have to register first to use the pirimid trading platform in which they would have to provide valid information to proceed further.

Information required for registration:

1. First name
2. Last name
3. Email
4. Password
5. Date of birth

**2.3.2 User Login**

After registration users would need to login to use the system. At any point of time users can update their profile.

Login credentials:

1. Email
2. Password

**2.3.3 KYC verification**

Before doing any investment, users can go through the KYC process, where eSignature, PAN card photo and photo of user will be required to upload for verification.

KYC verification requirements:

1. Signature photo
2. User’s selfie size photo
3. PAN card photo

**2.3.4 Dashboard**

We provide the dashboard of the system which shows popular funds and popular stocks available in the market, also Handpick collections of both assets. It also shows the investment which has been done by the user on the dashboard.

**2.3.5 Stock List**

System provides the feature of finding all stocks which are available in the market. Users can filter them based upon requirement.

Filters for stocks:

1. Company Name
2. Market capital value
3. Closing price

**2.3.5 Mutual funds List**

It is the page where users can find all the mutual funds which are available for investment. Users can filter them based upon requirement.

Filter for mutual funds:

1. Company Name
2. Risk
3. Find size (cr)
4. Available to invest

**2.3.6 Asset Detail Page**

Here users find the details of particular stock & mutual fund with graphical representation. Which shows what this company does and who is the organizer of the company or organization. From this page one can sell or buy shares using a trading ticket. Chart shows open, close, high and low price of stock within any time period.

Chart have two types:

1. Candlestick chart
2. Line chart

**2.3.7 Watchlist**

If any user wants to watch or monitor only specific companies then watchlist then users can add those company assets to watchlist. From there users can see the open, close, high and low price for stock.

**2.3.7.1 Search in watchlist**

Users can search companies based on the name of the company inside the watchlist.

**2.3.8 Orders**

From the details page of the company traders can place an order from trading ticket. That order will be shown inside the orders page based on the type of asset (Stock/Mutual Funds). Each order has the status. Every order will be executed after some specific duration of time. The mutual funds system provides features of making SIP (systematic investment plans) orders.

**2.3.9. Order Ticket**

**2.3.9.1 Stock ticket**

Stock ticket provide various options to place an order for particular stock.

1. Product code
   1. CNC (Cash and Carry)
   2. MIS (Margin Intraday Square off)
2. Order Type
   1. Limit
   2. Market price
3. Action
   1. Buy
   2. Sell

**2.3.9.2 Mutual fund ticket**

It provides various options to place orders in mutual funds with SIP policies.

1. Frequency of SIP
   1. Weekly
   2. Monthly
   3. Yearly
2. Order type
   1. Lumpsum (amount to invest)
   2. SIP (systematic investment plans)

**2.3.10 Positions**

A position is an amount of security or assets that is owned by some individual or some entity. A trader or investor takes a position when they make a purchase through a buy order. It is a portfolio owned by individuals on their current buying quantity.

**2.4. Workflow of system**

**Steps:**

1. User request for login with credential details.
2. Server checks the database for user entry.
3. If user is present in database, then backend will generate JWT (JSON Web Token)
4. Then it sends to the client or frontend or browser.