

Learn.Invest – A VIRTUAL TRADING SYSTEM

USER MANUAL

Design And Development :

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IMPORTANT: Please sign up separately for each mode of the game

Manual for Mode -1:

[Click this link to use Mode-1 of Learn.Invest Application:
<http://139.59.46.171/learninvestmode1/>]

This mode is administrator controlled. This is suitable in a situation where an experienced stock trader wishes to tutor beginners in the investment world.

The admin has the power to decide the stock exchange that the users would be trading under, and the stocks available to them for buying/selling. The admin also controls the price of the stocks and can change them at will, from an exclusive administrator account, which is secured with a password.

This facility can be used by the tutor to simulate various scenarios in the stock market (such as a sudden market crash/ boom), and expose his/her students to specific fluctuations in stock prices. Waiting for these scenarios to happen in the actual stock market is not advisable for a tutor. Also stock prices would not change on business holidays, meaning students cannot be taught trading strategies on those days. So it is better for the tutor to be given full control to create a fictional stock market for this system.

For this mode, we provide a sample list of stocks under NSE stock exchange. The admin [tutor] can add/ delete stocks from this list. The stock prices would be in INR.

Sign up as a new user of the application:

- The home page of the application has a Sign Up button, which leads to a user registration form. This form is then filled (all fields are required), and submit button is clicked. If there were no errors in the form, a page confirming the successful registration is displayed. Click 'Enter website' on this page to access user account.
- Password in the form must be minimum 8 characters, and mobile number must have 10 digits.
- Home page also contains links to documentation.

Logging in to the user account:

The home page of the application has a login form. Enter username and password to login. If authenticated, the user dashboard page will open with welcome message. Else invalid username or password error is displayed.

Using the features of the application:

The user dashboard page contains links to buy, and sell stocks. The header navigation bar on top contains links to View User Profile, View Stocks, View leader board, dashboard, notifications.

- **User profile** page lists all the user details including cash balance, profit ,portfolio value,etc. and list of stocks bought.
- Each user is given a capital of Rs. 1 lakh in Mode 1 of the application. This capital is initially equal to the cash balance. As one buys a stock, the value decreases, and increases if one sells a stock. If the value of the stocks bought by a user increases, then portfolio value, profit increases.
- **Portfolio value is defined as the sum of the cash balance and current market value of all the stocks the user has bought.**
- **Profit= Portfolio value – capital**
- **Stock details page** displays price of stock, name of company and other stock details.
- **To buy stock**, click button on dashboard page, choose stock ticker and quantity, click buy. You can see the changes in the user profile.
- **To sell stock**, click button on dashboard page, choose stock ticker and quantity, click sell. You can see the changes in the user profile.
- **Leader board** arranges the users of the application in descending order of their portfolio values.
- **Notifications page** shows the messages from the administrator or tutor of the application, who has control over the stock details. These messages are clues to the stock market scenarios that the admin would like the users/students to experience, and learn through experience.

Manual for Mode -2:

[Click this link to use Mode-2 of Learn.Invest Application:
<http://139.59.46.171/learninvestmode2/>]

In this mode, we provide a list of stocks under NASDAQ stock exchange. The stock prices would all be in USD.

Here, there is no administrator, and the stock prices are taken from the web using freely available finance APIs such as Yahoo Finance API. They are updated in real time, with a very small delay.

Users can trade in the stocks of their choice from the given list of stocks. **This is suitable for investors who are moderately experienced in the stock market, and are looking to improve their trading strategies.**

Each user is given a capital of \$ 10,000 in Mode 2 of the application(As NASDAQ stock prices are in US dollars).

The prices of the stock would change only during the actual trading window (the real market trading, where actual currency is used to trade in stocks) of the NASDAQ stock exchange, as the stocks in this mode are all covered under NASDAQ.

When the trading is closed for the day (or on holidays), the prices at the end of the day would be saved in the database and would begin updating when trading begins on next working day.

The trading window for NASDAQ, on working days , is between 20:00 IST to 02:30 IST i.e. from 8.30 PM to 12:00 AM IST.

The features of this mode , is the same as Mode- 1 of the application, except that notifications is not present, as there is no administrator.

The instructions for Mode 2 is same as those for Mode 1.