

Group 30

Stock Price Prediction and Visualization

Priority Order

1 - Must Have

2- Should Have

3- Could Have

Front Card

As a trader, I want to log into the website with my email ID, so that i can access the website in the state I left it earlier.

Acceptance Criteria

- If username entered already exists and password entered is correct, user should be able to get into the website.
- If username is not registered for the website, it should ask user to register with his new credentials.
- If username exists but the password entered is incorrect, it should ask user to enter the correct password.
- User should also be able to log out of the website.

Priority : 1

Front Card

As a user, I do not want my data to be publicly available to anyone so that my financial details and preferences could be secure.

Priority : 1

Acceptance Criteria

- Portfolio and interested stocks details for every user should be secure and not displayed unless the user credentials have been provided.
- The login system should be secure enough to not leak the data or credentials of the user.

Front Card

As a user , I want 2-factor-Authentication so that my data is secure.

Acceptance Criteria

- After successfully entering credentials, system should ask user to enter OTP and also send OTP to the email attached with that account.
- After user enters correct OTP it should bring user to the account.
- If user enters wrong OTP, it should not allow user to enter.

Priority : 2

Front Card

As a newbie user, I want a tutorial how to use the website and how to access the functions in the website.

Priority : 1

Acceptance Criteria

- After successfully creating an account for the first time in the website, a tutorial option appears asking if the user wants a tutorial.
- The user is also given the option to skip the tutorial if he wants to.

Front Card

As a trader, I want to maintain a wishlist of stocks of my choice so that I can easily access data that I want.

Acceptance Criteria

- User should have feature to add stocks to wishlist. Once added they should be displayed on a separate page which contains all the wishlisted stocks of user.
- User should also be able to remove stocks from wishlist, after removal it should be removed from the list.
- If user tries to add stock in wishlist which is already in wishlist, it should notify user that the stock already exists in the wishlist.

Priority : 2

Front Card

As a shareholder, I want to take user feedback about the website so that I can understand their needs and issues better.

Priority : 2

Acceptance Criteria

- Users who have logged in should be able to give feedbacks about the website.
- There should be a page where the users can go and submit their textual feedback and send it to the shareholder.
- Shareholder should receive the feedbacks given by all the users.

Front Card

As a novice investor, I want a user friendly dashboard with easy-to-understand User Interface.

Acceptance Criteria

- The front page should not contain overwhelming amount of features.
- The UI should be easy to use and navigate for new users.

Priority : 1

Front Card

As an investor, I want to view a charts of previous trends of stock prices, so I can plan my investments.

Priority : 1

Acceptance Criteria

- The user can search for the stock that they want chart of and get the error or pop-down if it is not available.
- Description about the plots will be show on hovering if it is available else it won't show the tooltip.
- They could even add the stock to their bookmarks and get the confirmation if added else get the error if for any reason it was added.

Front Card

As an investor, I want to be notified about stocks of my interest, so that I can be updated with latest changes in the trend.

Priority : 3

Acceptance Criteria

- Every time there is a significant change in the prediction or the price of the stock which is in investor's interest, it should send a notification to the investor that there is a change.

Front Card

As an user, I want the website to be accessible most of the times so that I can use it anytime I need.

Priority : 1

Acceptance Criteria

- The shutdown period of the website should be very less(like a few minutes per day).
- The retraining of the model should be at the time when there are not many users.

Front Card

As an investment firm, I want the website to be reliable so that I can trust it to make my investments.

Priority : 1

Acceptance Criteria

- The website should not be having some malfunction which causes the website to give random or false(as in out of model) values.
- The website should not be claiming to give prediction if it does not actually have information or should not be showing random values.

Front Card

As a stakeholder, I want my website to be predicting the future values of the stocks so that it can serve the primary function.

Priority : 1

Acceptance Criteria

- The website should be integrated with the ML model.
- It should analyse the previous trends of stock prices and after processing it, it should give the estimate of the stock price in near future.
- It should be integrated with datasets of the stock prices and other features which affect the prices.

Front Card

As a user, I want a discussion forum on every stock page so that I can discuss it among other users.

Acceptance Criteria

- Every stock page should have a discussion forum attached to it.
- Users should be able to post comments on the stock and other users should be able to see these comments.
- User should have the ability to delete the comment they had made earlier.

Priority : 1

Front Card

As a data analyst, I want to have charts for different timelines, so that I can have better understanding of current and previous trends.

Acceptance Criteria

- Every stock page should have navigation bar for choosing different timelines (1 Year, 6 Months, 3 Months).
- After clicking on the particular timeline, user should be able to see the graph of that timeline and show error if unable to load.

Priority : 2

Front Card

As a trader, I want the model to be trained as efficiently as possible, so that I can get accurate predictions.

Acceptance Criteria

- Model should consider all the possible features.
- It should be trained on the best possible model.
- It should be trained on new data on a timely basis for the accurate predictions.
- And during this training, user should get the page of server maintenance.

Priority : 1