

Stock Broker System Functionalities

I am dividing the functionalities into two types :

- **Must-have Functionalities** : These are essential features needed for core operations.
- **Nice-to-have Functionalities** : These are additional features that enhance usability and provide extra value.

Must-have Functionalities:

- **Register User**: It allows broker to add new user.
- **Unregister User**: It allows broker to delete a user.
- **Stock Holds** : Number of Stocks a single user is Holding.
- **Register Stock** : It allows broker to add new stock.
- **Unregister Stock**: It allows broker to add delete a stock .
- **Buy Stock**: It facilitates users in purchasing stocks with the help of broker, ensuring sufficient balance and updating stock holdings.
 - Deduct amount
 - Update Stocks the user is Holding
- **Sell Stock**: It allows users to sell stocks with the help of broker, ensuring they have sufficient stock to sell and updating their balance accordingly.
 - Add Amount
 - Update Stock the user is Holding

Nice-to-have Functionalities

- Transaction History Retrieval : Stores each user's transactions, whether buying or selling.
- Balance Inquiry : Allows users to check their remaining balance with the broker's help.
- Brokerage Charges Display : Shows users the total brokerage charges they have incurred.
- Display Stock Information : Provides users with stock details, including brokerage charges.
- Display User Information : Allows users to view their account information.
- Balance Notification: Alerts users when their balance drops below a specified limit.