# Problem Statement

Design share market management software according to the requirements given below

Requirements

1. An individual or a company should be able register in the system using a webpage provided by software.
2. Software should ask for details such as name (company/individual), PAN card no, date of birth, contact details, gender, address, bank account no (company/individual) during registration
3. Software should allow user to set an user id and password for account
4. Company should be able to fix no of shares and price of share
5. Software should allow trading only after proper login in the system
6. Software should provide list of companies along with number of shares and price per share
7. User should be able to select any company whose shares he/she wants to buy by entering the name of company in text box.
8. As user has to enter the number of shares he/she wants to buy, software should calculate payment for seller
9. For payment software should ask for account no of buyer, if enough money is there for payment transaction is committed with updating the database otherwise transaction should be aborted with a warning message
10. Software should display the message whether company in which user has invested has made profit or is in loss
11. According to profit or loss final price of shares of buyer should be calculated as

* In case of profit final price of shares will be calculated by formula

Final price= (investment amount + profit) / no of shares.

* In case of loss final price of shares will be calculated by formula

Final price= (investment amount - loss) / no of shares.

1. After calculation of final share price all the details of user should be displayed in proper format
2. Details must include user id, personal information (name, age, gender, date of birth), account no, amount, list of companies with no of shares and price per share and total price of all shares.

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