**Virtual Share Trading System**

**Scenario**

“**ShareChacha**” have planned to expand their business across several location in India like Mumbai,Pune, Bengaluru, Delhi, Kolkata. In order to handle the smooth day to day operations, they have decided to design a web based application which will be accessible throughout India.

Multiple users can register and login to the application for trading shares of different companies. They should be able to purchase share or sell the shares of different companies. Admin user should be able to login to website and track the shares purchased by different users.

Business rules

* User need to register the system to avail the facilities provided by the system.
* User need to register for viewing the shares and its price of different company.

Initially shares of 20 different companies are available for viewing and trading. Share details can be added by admin only.

* Once successfully registered, Registration ID will be generated automatically and has to be used as the login name. Ask user to set the password. This activity must be treated as a part of registration process.
* Once successfully registered, user can login to the system to purchase/sell/view the shares.
* Initial amount considered for trading is 1,00,000/-
* If traded value is more than 1,00,000/- then exception should be generated and informed to the admin.
* User should be able to purchase shares of different companies and purchased shares on particular day should be displayed in user portfolio.

Note:- Admin should provide share details of 20 different companies for trading.

Use initial quantity of share 1000 shares/company

* User should be able to sell the share.

If no of share to be sold is more than share in portfolio than exception should be raised.

* Transaction should be allowed only between time 9AM to 4PM use triggers**(PL/SQL)**
* Use **PL/SQL block to change share price of 20 shares dynamically at any instant**.

(You can update value here) only admin has right to update share price at any instant.

Once the price is changed by the admin, the price change history must be maintain in the database.

* Current share value should be reflected for all users in their portfolio.
* Admin can generate reports for shares traded for a particular day.

Scope

* Registration page for user to registration.
* Login page to login to the system to purchase / sell /view the shares.
* Users to view purchase and sell shares.
* Admin to login for adding / viewing / updating the shares.
* Admin to generate various reports listed in the business rules.
* Admin to update the user details like; change status, reset password etc.