



JAVA-DBMS MINI PROJECT

Title :

Imperial Bull : A Stock Management System

Problem Statement :

The Program has been designed to allow an user to register,login, view, buy and sell Stocks.

The Information entered by the user is stored in MySQL and can only be modified by the Admin.

Here the main job is to create a Phone-based application for many users which can access this on their mobile phones and can easily register and start investing in the Stock Market hassle free.

Use Netbeans for Java and MySQL for DBMS part of the project.

Group Members :

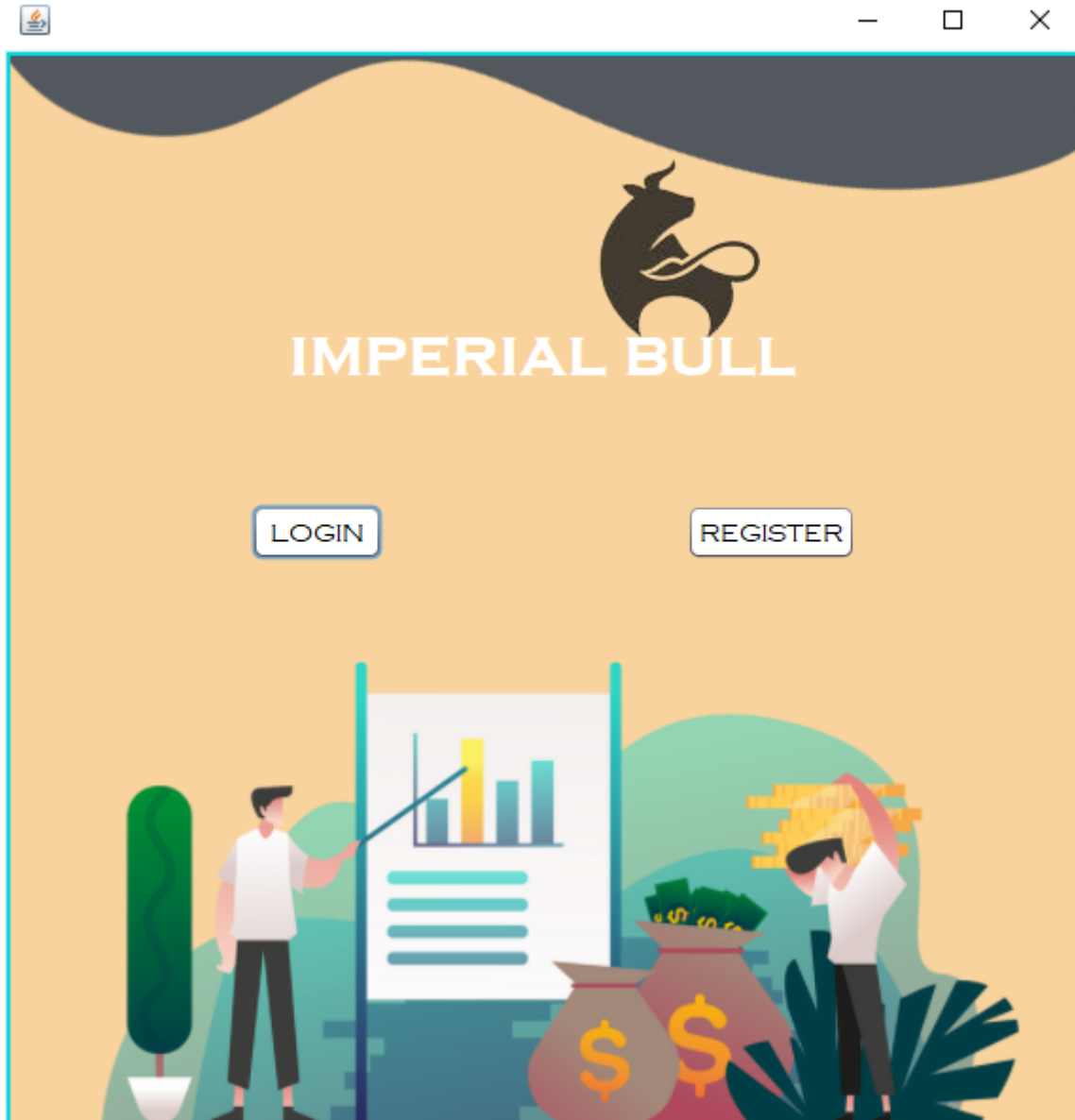
Shlok Mangle - 60003200179

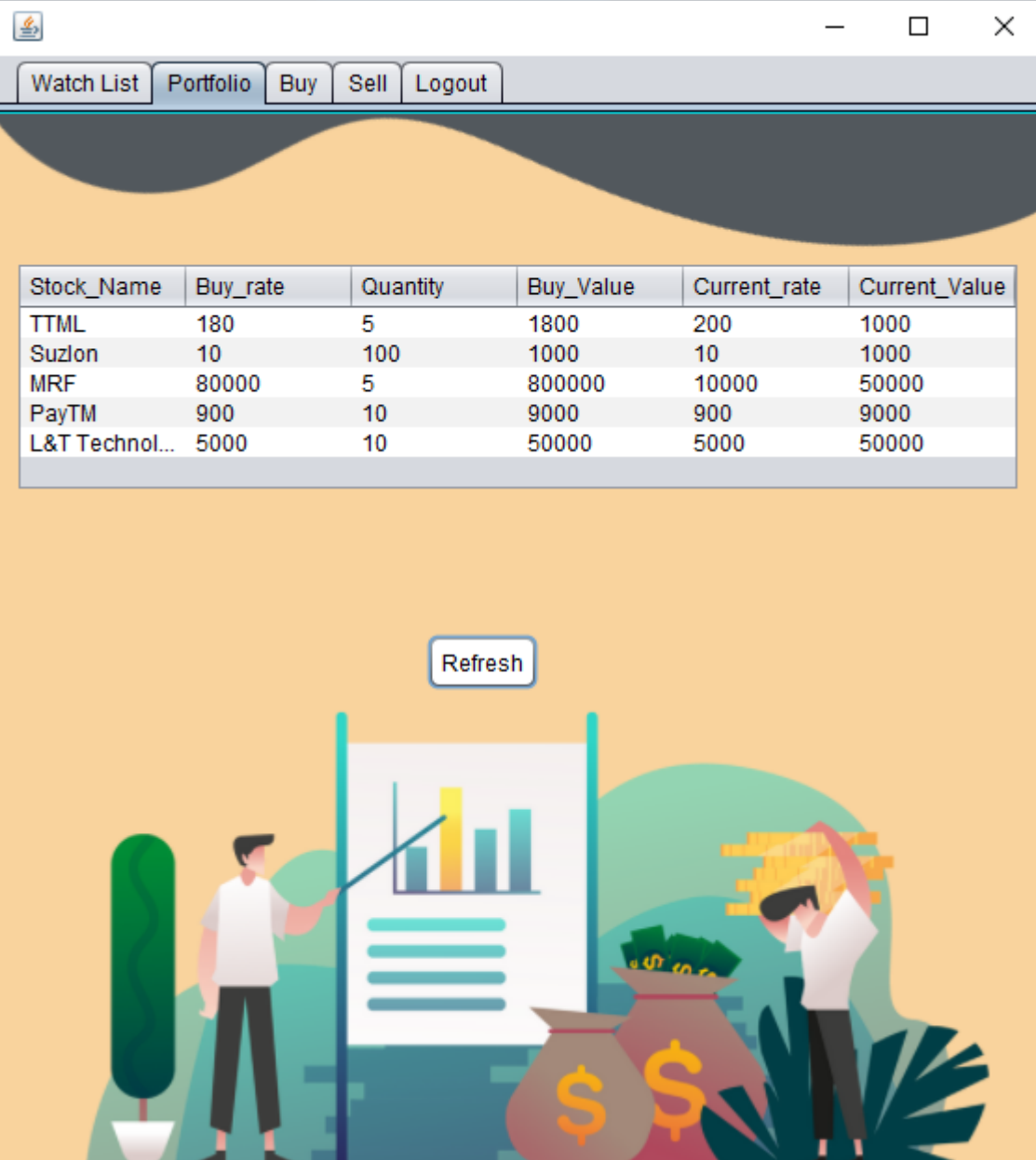
Rujuta Joshi - 60003200157

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Front End design :

MAIN MENU :



PORTFOLIO :

Stock_Name	Buy_rate	Quantity	Buy_Value	Current_rate	Current_Value
TTML	180	5	1800	200	1000
Suzlon	10	100	1000	10	1000
MRF	80000	5	800000	10000	50000
PayTM	900	10	9000	900	9000
L&T Technol...	5000	10	50000	5000	50000

BUYING A STOCK :

The screenshot shows a web application window for buying stocks. The window has a title bar with standard minimize, maximize, and close buttons. Below the title bar is a navigation menu with five buttons: "Watch List", "Portfolio", "Buy", "Sell", and "Logout". The "Buy" button is currently selected. The main content area has a light orange background with a dark grey wavy header. It contains three input fields: "ENTER THE STOCK NAME" with a dropdown menu showing "BAJAJ", "ENTER THE BUY RATE" with a text box containing "7000", and "ENTER THE QUANTITY" with a text box containing "10". Below these fields is a "BUY" button. A "Message" dialog box is open in the foreground, displaying an information icon and the text "Your Purchase Is Successful", with an "OK" button at the bottom right. The background of the application features a stylized illustration of a person standing next to a large money bag with dollar signs, and some greenery.

Watch List Portfolio Buy Sell Logout

ENTER THE STOCK NAME BAJAJ

ENTER THE BUY RATE 7000

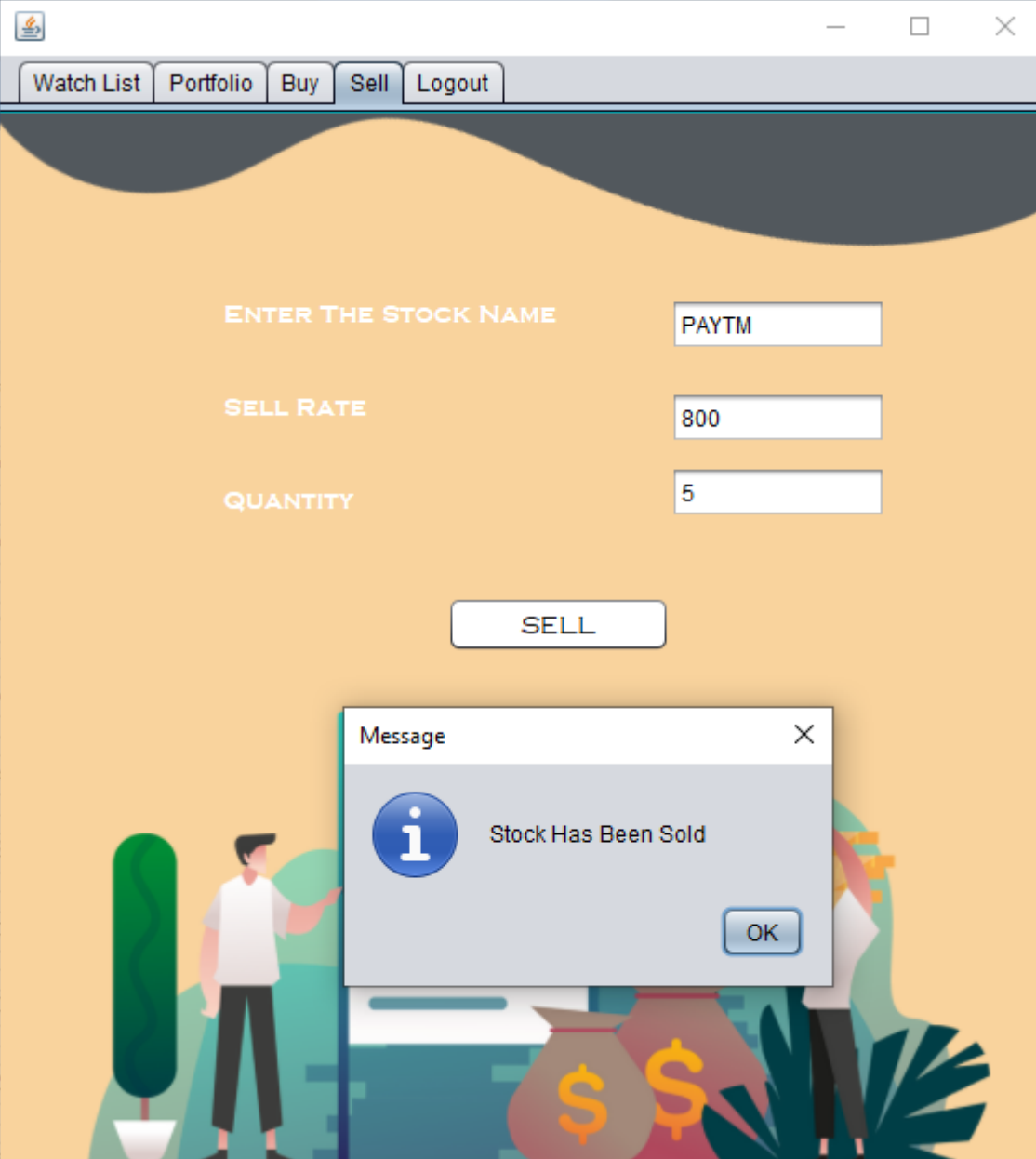
ENTER THE QUANTITY 10

BUY

Message

i Your Purchase Is Successful

OK

SELLING A STOCK :

The screenshot shows a web application window for selling stocks. The window has a title bar with standard minimize, maximize, and close buttons. Below the title bar is a navigation menu with five buttons: "Watch List", "Portfolio", "Buy", "Sell", and "Logout". The "Sell" button is currently selected and highlighted. The main content area has a light orange background with a decorative dark grey wavy border at the top. It contains three input fields: "ENTER THE STOCK NAME" with the value "PAYTM", "SELL RATE" with the value "800", and "QUANTITY" with the value "5". Below these fields is a large "SELL" button. A modal message box is open in the foreground, titled "Message", with a blue information icon and the text "Stock Has Been Sold". An "OK" button is at the bottom right of the message box. The background of the application window features a stylized illustration of a person standing next to a large money bag with dollar signs, and some greenery.

Watch List Portfolio Buy Sell Logout

ENTER THE STOCK NAME PAYTM

SELL RATE 800

QUANTITY 5

SELL

Message

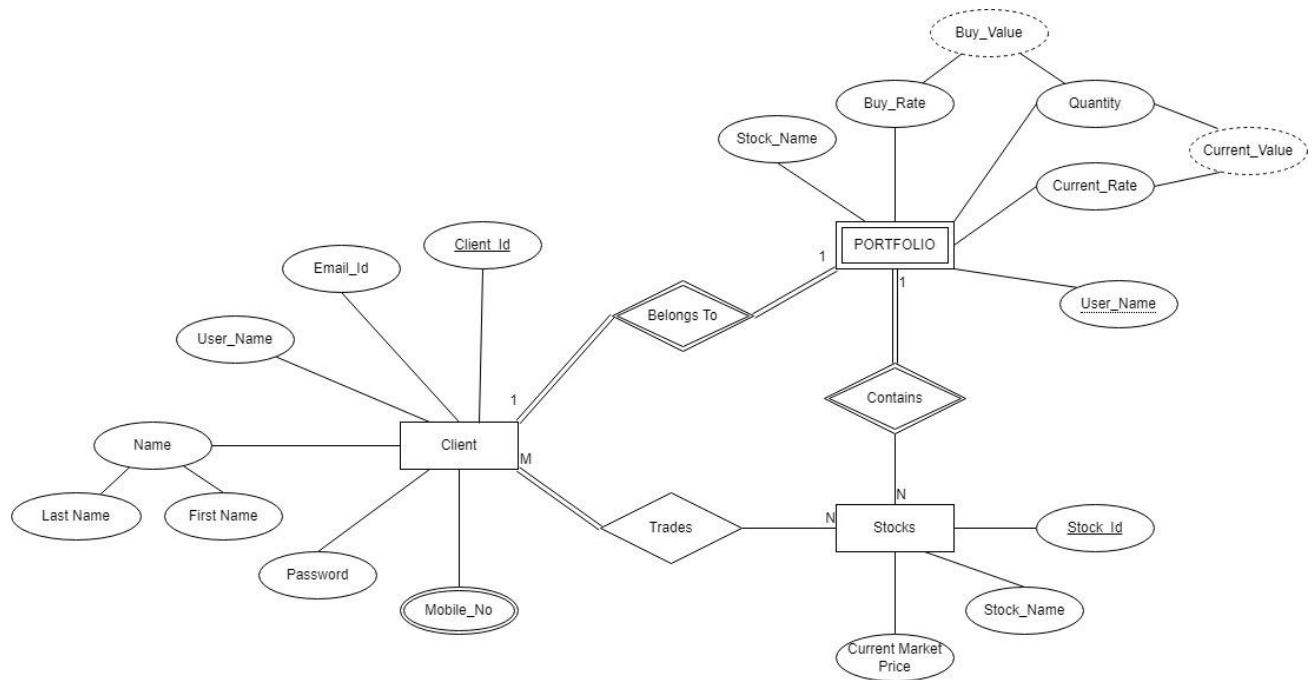
Stock Has Been Sold

OK

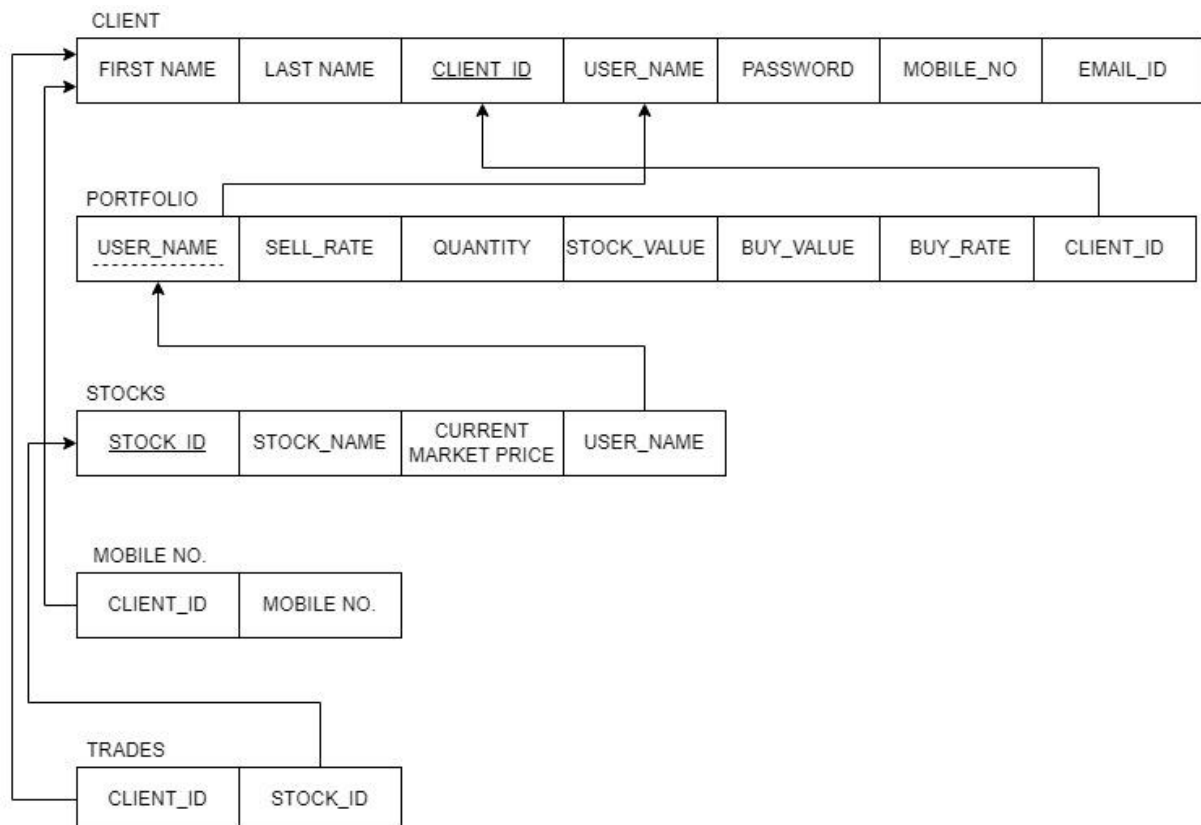
Event handling code (any 1):

```
private void BuyActionPerformed(java.awt.event.ActionEvent evt) {  
    String value = Stock_name.getSelectedItem().toString();  
    String Quantity = quantity.getText();  
    String Buy_Rate = buy_rate.getText();  
  
    try {  
        con =  
DriverManager.getConnection("jdbc:mysql://localhost:3306/stock?user=root&p  
assword=Shlok@0972");  
        ps = con.prepareStatement("insert into portfolio  
(Stock_Name,Quantity,Buy_Rate,Buy_Value,Current_Rate,User_Name)  
values (?, ?, ?, ?*?, ?, ?)");  
        ps.setString(1, value);  
        ps.setString(2, Quantity);  
        ps.setString(3, Buy_Rate);  
        ps.setString(4, Quantity);  
        ps.setString(5, Buy_Rate);  
        ps.setString(6, Buy_Rate);  
        ps.setString(7, username);  
        ps.executeUpdate();  
        JOptionPane.showMessageDialog(this,"Your Purchase Is  
Successful");  
  
    } catch (SQLException ex) {  
        Logger.getLogger(Home.class.getName()).log(Level.SEVERE, null,  
ex);  
    }  
}
```

ER Diagram



Mapping of ER diagram to Tables











Connectivity code :

```
con =
```

```
DriverManager.getConnection("jdbc:mysql://localhost:3306/stock?user=root&password=Shlok@0972");
```




Tables with rows :**Schema (followed by table screenshot):*****Client***

(Client_Id INTEGER, First_Name Varchar(45), Last_Name Varchar(45), Phone_No Integer, Pan_No Varchar(10), User_Name Varchar(45), Password Varchar(45))

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
 Client_Id	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
 First_Name	VARCHAR(45)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 Last_Name	VARCHAR(45)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 Pan_No	VARCHAR(10)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 Phone_No	INT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
 Email_Id	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
 User_Name	VARCHAR(45)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 Password	VARCHAR(45)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Stock

(Stock_Id INTEGER , Stock_Name Varchar(45), CMP INTEGER)

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
 Stock_Id	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 Stock_Name	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
 CMP	INT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Portfolio

(Stock_Name Varchar(45) , Buy_rate INTEGER , Quantity INTEGER , Buy_value INTEGER , Current_rate INTEGER , User_name Varchar(45) , Current_Value INTEGER)

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
Stock_Name	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
Buy_rate	INT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
Quantity	INT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
Buy_Value	INT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
Current_rate	INT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
User_Name	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
Current_Value	INT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL

Foreign Key: (Portfolio Table)

Foreign Key Name	Referenced Table
User_Name	`stock`,`client`

Triggers Used:

```
CREATE DEFINER='root'@'localhost' TRIGGER `portfolio_BEFORE_INSERT` BEFORE INSERT ON `portfolio` FOR EACH ROW BEGIN
    SET NEW.Current_Value = (NEW.Current_rate * NEW.Quantity);
END
```

```
CREATE DEFINER='root'@'localhost' TRIGGER `portfolio_BEFORE_UPDATE` BEFORE UPDATE ON `portfolio` FOR EACH ROW BEGIN
    SET NEW.Current_Value = (NEW.Current_rate * NEW.Quantity);
END
```

Conclusion :

Hence , We have successfully created a Mobile based Application to Trade Stocks and display it in the Portfolio using JAVA and SQL.