```
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;

@SuppressWarnings("serial")
public class about extends JFrame implements ActionListener{

    private JLabel title;
    private JLabel abt;
    private JMenu menu;
    private JMenuItem i1, i2;
    private JMenuBar mb;
    private JFrame f;
    String username;

    public void form(String username){
        username = "null";
        this.username = username;

        f = new JFrame("BIGBASKET");

        title = new JLabel("BIG BASKET");
        title.setFont(new Font("Arial", Font.PLAIN, 60));
        title.setSize(500, 100);
        title.setLocation(50, 100);
        f.add(title);

        abt = new JLabel("MADE BY PRATHAMESH :) [Nov 2020]");
        abt.setFont(new Font("Arial", Font.PLAIN, 15));
        abt.setSize(500, 100);
        abt.setLocation(50, 200);
        f.add(abt);

        menu=new JMenu("Options");
        mb=new JMenuBar();
        i1=new JMenuItem("logout");
        i2=new JMenuItem("back");
        i1.addActionListener(this);
        i2.addActionListener(this);
        menu.add(i1);
        menu.add(i2);
        mb.add(menu);

        f.setJMenuBar(mb);
        f.setSize(600,400);
        f.setLayout(null);
        f.setVisible(true);

        setVisible(true);
```

```
    }
    public void actionPerformed(ActionEvent e){
        login_reg_choose_form login_signup = new login_reg_choose_form();
        home_page home = new home_page();

        if(e.getSource()==i1){
            login_signup.form();
            f.dispose();
        }
        if(e.getSource()==i2){
            home.form(username); //if reg done successfully

            f.dispose();
        }
    }
}

import java.sql.*;
import java.util.*;


public class account_handling {
    static market_database_handling mdh = new market_database_handling();
    Scanner in = new Scanner(System.in);

    boolean username_already_exists(String user_name){
        String query = "select user_name from users where user_name='"+user_name+ "'";

        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/bb_accounts","root","Hello@123");
            Statement stmt = con.createStatement();
            ResultSet rs = stmt.executeQuery(query);
            if (!rs.next()){
                con.close();
                return false;
                }
            else{
                System.out.println("** username exists **");
                con.close();
                return true;
            }
        }catch(Exception e){System.out.println(e);}

        return true;
    }
```

```
    String new_user_login(String user_name, String password){
        if(username_already_exists(user_name)){
            return "err:usernameExists";
        }

        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/bb_accounts","root","Hello@123");
            Statement stmt = con.createStatement();
            String updt = "insert into users values('"+user_name+ "','"+ password +"')";
            stmt.executeUpdate(updt);
            con.close();
            System.out.println("*** account created ***");
        }catch(Exception e){System.out.println(e);}
        return "success";
    }


    String take_username(){
        String user_name;
        System.out.println("Enter Username : ");
        user_name = in.nextLine();
        return user_name;
    }
    String take_password(){
        String password;
        System.out.println("Enter Password : ");
        password = in.nextLine();
        return password;
    }

    String old_user_login(String user_name,String password){

        String retrieved="";
        if(!username_already_exists(user_name)){
            return "err:username";
        }

        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/bb_accounts","root","Hello@123");
            Statement stmt = con.createStatement();
            String query = "select password from users where user_name='"+user_name+ "'";
            ResultSet rs = stmt.executeQuery(query);
            rs.next();
            retrieved = rs.getString(1);
            con.close();
```

```
        }catch(Exception e){System.out.println(e);}

        if( !password.equals(retrieved) ){
            return "err:password";
        }

        System.out.println("** Successful login ***");
        if(user_name.equals("admin")){
            return "admin";
        }
        return "customer";
    }

}

import javax.swing.*;
import java.awt.*;
import java.awt.event.*;

@SuppressWarnings("serial")
public class admin_form extends JFrame implements ActionListener{
    private JComboBox<String> cb;
    private JFrame f;
    private JButton back;
    private JButton resetall;
    private JButton setval;
    private JLabel quantity;
    private JLabel expiry;
    private JLabel cost;
    private JTextField quantity_val;
    private JTextField expiry_val;
    private JTextField cost_val;


    public void form(){

        f = new JFrame("BIGBASKET - ADMIN MODE");

        quantity = new JLabel("Q :");
        quantity.setFont(new Font("Arial", Font.BOLD, 15));
        quantity.setSize(100, 30);
        quantity.setLocation(150, 45);
        f.add(quantity);

        expiry = new JLabel("E : ");
        expiry.setFont(new Font("Arial", Font.BOLD, 15));
        expiry.setSize(100, 30);
        expiry.setLocation(250, 45);
```

```
f.add(expiry);

cost = new JLabel("C : ");
cost.setFont(new Font("Arial", Font.BOLD, 15));
cost.setSize(100, 30);
cost.setLocation(350, 45);
f.add(cost);

quantity_val = new JTextField("0");
quantity_val.setFont(new Font("Arial", Font.PLAIN, 15));
quantity_val.setSize(30, 30);
quantity_val.setLocation(180, 45);
f.add(quantity_val);

expiry_val = new JTextField("0");
expiry_val.setFont(new Font("Arial", Font.PLAIN, 15));
expiry_val.setSize(30, 30);
expiry_val.setLocation(280, 45);
f.add(expiry_val);

cost_val = new JTextField("0");
cost_val.setFont(new Font("Arial", Font.PLAIN, 15));
cost_val.setSize(30, 30);
cost_val.setLocation(380, 45);
f.add(cost_val);

resetall = new JButton("RESET ALL");
resetall.setFont(new Font("Arial", Font.PLAIN, 15));
resetall.setSize(120, 30);
resetall.setLocation(250, 150);
resetall.addActionListener(this);
f.add(resetall);

back = new JButton("Logout");
back.setFont(new Font("Arial", Font.PLAIN, 15));
back.setSize(75, 30);
back.setLocation(50, 150);
back.addActionListener(this);
f.add(back);

setval = new JButton("SET");
setval.setFont(new Font("Arial", Font.PLAIN, 15));
setval.setSize(75, 30);
setval.setLocation(150, 150);
setval.addActionListener(this);
f.add(setval);
```

```
        String products[]={"Spinach","Cauli-
flower","Mushrooms","Beet","Brocolli","Cabbage","Apple","Orange","Bananas","Cherries","Chicken"
,"Fish","Crabs"};
        cb=new JComboBox<>(products);

        cb.setBounds(50, 50,90,20);
        f.add(cb);
        f.setLayout(null);
        f.setSize(500,250);
        f.setVisible(true);
    }

    public void actionPerformed(ActionEvent e){
        login_reg_choose_form login_signup = new login_reg_choose_form();
        market_database_handling mdh = new market_database_handling();

        if(e.getSource()==back){
            login_signup.form();
            f.dispose();
        }
        if(e.getSource()==resetall){
            mdh.run_default_market();
        }
        if(e.getSource()==setval){
            String product = cb.getItemAt(cb.getSelectedIndex());
            Integer Quantity = Integer.parseInt(quantity_val.getText());
            Integer Cost = Integer.parseInt(cost_val.getText());
            Integer Expiry_days = Integer.parseInt(expiry_val.getText());

            mdh.update_item(product, Quantity, Cost, Expiry_days);

        }
    }
}

import java.io.*;
import java.net.*;
import java.util.Scanner;

// Client class
public class Client
{
    static market_database_handling mdh = new market_database_handling();
    static account_handling acch = new account_handling();
    public static void main(String[] args) throws IOException
    {
        try
        {
            Scanner scn = new Scanner(System.in);
```

```
// getting localhost ip
InetAddress ip = InetAddress.getByName("localhost");

// establish the connection with server port 5056
Socket s = new Socket(ip, 5056);

// obtaining input and out streams
DataInputStream dis = new DataInputStream(s.getInputStream());
DataOutputStream dos = new DataOutputStream(s.getOutputStream());

//gui.login_signup_page();
//reg_form f = new reg_form();
int repeat =1;
while(repeat==1){

   String user_name, password, password_chk;

   mdh.get_market_status();
   int new_acc = mdh.choose_login_options();
   String status = "";
   if(new_acc == 1){
      while(status.equals("err:password") || status.equals("err:username") || status.equals("")){
         System.out.println(status);
         dos.writeUTF("old_user_login");
         user_name = acch.take_username();
         dos.writeUTF(user_name);
         password = acch.take_password();
         dos.writeUTF(password);
         status = dis.readUTF();
      }
      mdh.display_respective_menu(status);
   }
   else if(new_acc == 2){
      while(status.equals("err:usernameExists") || status.equals("")){
         dos.writeUTF("new_user_login");
         user_name = acch.take_username();
         dos.writeUTF(user_name);

         do{
            password = acch.take_password();
            System.out.print("REENTER ");
            password_chk = acch.take_password();
         }while(!password.equals(password_chk));

         System.out.println("Successfully created account");
         dos.writeUTF(password);
         status = dis.readUTF();
      }
```

```
                mdh.display_respective_menu("customer");
            }
            repeat = mdh.continue_shopping();
        }
        dos.writeUTF("terminate");

        // closing resources
        scn.close();
        dis.close();
        dos.close();
        s.close();
    }catch(Exception e){
        e.printStackTrace();
    }

  }
}

import javax.swing.*;
import java.awt.*;
import java.awt.event.*;

@SuppressWarnings("serial")
public class home_page extends JFrame implements ActionListener{
   private JButton market;
   private JButton feedback;
   private JButton about;
   private Container c;
   private JLabel title;
   String username;

   public void form(String username){
      username = "null";
      this.username = username;

      setTitle("BIG BASKET");
      setBounds(100, 100, 1000, 850);
      setDefaultCloseOperation(EXIT_ON_CLOSE);
      setResizable(false);

      c = getContentPane();
      c.setLayout(null);

      title = new JLabel("BIG BASKET");
      title.setFont(new Font("Arial", Font.PLAIN, 60));
      title.setSize(500, 100);
      title.setLocation(300, 150);
      c.add(title);
```

```
    market = new JButton("MARKET");
    market.setFont(new Font("Arial", Font.PLAIN, 15));
    market.setSize(300, 100);
    market.setLocation(320, 350);
    market.addActionListener(this);
    c.add(market);

    feedback = new JButton("FEEDBACK");
    feedback.setFont(new Font("Arial", Font.PLAIN, 15));
    feedback.setSize(300, 100);
    feedback.setLocation(320, 500);
    feedback.addActionListener(this);
    c.add(feedback);

    about = new JButton("ABOUT");
    about.setFont(new Font("Arial", Font.PLAIN, 15));
    about.setSize(300, 100);
    about.setLocation(320, 650);
    about.addActionListener(this);
    c.add(about);

    setVisible(true);
}

public void actionPerformed(ActionEvent e) {
    market_form mark = new market_form();
    about abt = new about();

    if (e.getSource() == feedback) {

        JComponent comp = (JComponent) e.getSource();
        Window win = SwingUtilities.getWindowAncestor(comp);
        win.dispose();
    }
    if (e.getSource() == about){
        abt.form(username);
        JComponent comp = (JComponent) e.getSource();
        Window win = SwingUtilities.getWindowAncestor(comp);
        win.dispose();
    }
    if (e.getSource() == market){
        mark.form(username);

        JComponent comp = (JComponent) e.getSource();
        Window win = SwingUtilities.getWindowAncestor(comp);
        win.dispose();
    }

}
```

```
}

import javax.swing.*;
import java.awt.*;
import java.awt.event.*;

@SuppressWarnings("serial")
public class login_form extends JFrame implements ActionListener{

    private Container c;
    private JLabel title;

    private JLabel name;
    private JLabel res;
    private JTextField tname;
    private JTextField tpass;
    private JButton sub;
    private JButton back;

    // Scanner scn = new Scanner(System.in);
    // DataOutputStream dos;
    // DataInputStream dis;
    // Socket s;
    // InetAddress ip;

    // public login_form(){
    //     try{
    //         ip = InetAddress.getByName("localhost");
    //         // establish the connection with server port 5056
    //         s = new Socket(ip, 5056);
    //         // obtaining input and out streams
    //         dis = new DataInputStream(s.getInputStream());
    //         dos = new DataOutputStream(s.getOutputStream());

    //     }catch(Exception e){e.printStackTrace();}

    // }


    public void form(){
        setTitle("User Login");
        setBounds(300, 90, 550, 600);
        setDefaultCloseOperation(EXIT_ON_CLOSE);
        setResizable(false);

        c = getContentPane();
        c.setLayout(null);

        title = new JLabel("Login Form");
```

```
title.setFont(new Font("Arial", Font.PLAIN, 30));
title.setSize(500, 100);
title.setLocation(200, 30);
c.add(title);

name = new JLabel("Username");
name.setFont(new Font("Arial", Font.PLAIN, 20));
name.setSize(150, 20);
name.setLocation(100, 200);
c.add(name);

tname = new JTextField();
tname.setFont(new Font("Arial", Font.PLAIN, 15));
tname.setSize(200, 20);
tname.setLocation(250, 200);
c.add(tname);

name = new JLabel("Password");
name.setFont(new Font("Arial", Font.PLAIN, 20));
name.setSize(150, 20);
name.setLocation(100, 240);
c.add(name);

tpass = new JTextField();
tpass.setFont(new Font("Arial", Font.PLAIN, 15));
tpass.setSize(200, 20);
tpass.setLocation(250, 240);
c.add(tpass);

sub = new JButton("Submit");
sub.setFont(new Font("Arial", Font.PLAIN, 15));
sub.setSize(150, 60);
sub.setLocation(280, 350);
sub.addActionListener(this);
c.add(sub);

back = new JButton("Back");
back.setFont(new Font("Arial", Font.PLAIN, 15));
back.setSize(150, 60);
back.setLocation(125, 350);
back.addActionListener(this);
c.add(back);

res = new JLabel("");
res.setFont(new Font("Arial", Font.PLAIN, 20));
res.setSize(500, 25);
res.setLocation(125, 450);
c.add(res);
```

```
        setVisible(true);
    }

    public void actionPerformed(ActionEvent e){

        String username;
        String password;
        login_reg_choose_form login_signup = new login_reg_choose_form();
        home_page home = new home_page();
        account_handling acch = new account_handling();
        admin_form ad_form = new admin_form();

        if (e.getSource() == sub){
            username = tname.getText();
            password = tpass.getText();

            String status = acch.old_user_login( username, password);
            res.setText(status);

            if(status.equals("customer")){

                home.form(username);    // if login success
                JComponent comp = (JComponent) e.getSource();
                Window win = SwingUtilities.getWindowAncestor(comp);
                win.dispose();
            }
            if(status.equals("admin")){

                ad_form.form();
                JComponent comp = (JComponent) e.getSource();
                Window win = SwingUtilities.getWindowAncestor(comp);
                win.dispose();
            }
        }
        else if (e.getSource() == back) {
            login_signup.form();
            JComponent comp = (JComponent) e.getSource();
            Window win = SwingUtilities.getWindowAncestor(comp);
            win.dispose();
        }
    }

}

import javax.swing.*;
import java.awt.*;
import java.awt.event.*;

@SuppressWarnings("serial")
```

```
public class login_reg_choose_form extends JFrame implements ActionListener{
    private Container c;
    private JLabel title;
    private JButton Login;
    private JButton Signup;

    public void form(){
        setTitle("WELCOME TO BIGBASKET");
        setBounds(300, 90, 550, 600);
        setDefaultCloseOperation(EXIT_ON_CLOSE);
        setResizable(false);

        c = getContentPane();
        c.setLayout(null);

        title = new JLabel("WELCOME TO BIGBASKET");
        title.setFont(new Font("Arial", Font.PLAIN, 30));
        title.setSize(500, 30);
        title.setLocation(85, 75);
        c.add(title);

        Signup = new JButton("Signup");
        Signup.setFont(new Font("Arial", Font.PLAIN, 15));
        Signup.setSize(300, 100);
        Signup.setLocation(125, 200);
        Signup.addActionListener(this);
        c.add(Signup);

        Login = new JButton("Login");
        Login.setFont(new Font("Arial", Font.PLAIN, 15));
        Login.setSize(300, 100);
        Login.setLocation(125, 350);
        Login.addActionListener(this);
        c.add(Login);

        setVisible(true);
    }
    public void actionPerformed(ActionEvent e) {

        reg_form reg_form = new reg_form();
        login_form login_form = new login_form();

        if (e.getSource() == Signup) {
            reg_form.form();
            JComponent comp = (JComponent) e.getSource();
            Window win = SwingUtilities.getWindowAncestor(comp);
            win.dispose();
        }
        else if (e.getSource() == Login){
```

```
            login_form.form();
            JComponent comp = (JComponent) e.getSource();
            Window win = SwingUtilities.getWindowAncestor(comp);
            win.dispose();
        }

    }
}

import java.sql.*;
import java.util.*;
import org.apache.ibatis.jdbc.ScriptRunner;
import java.io.FileReader;
import java.io.Reader;
import java.io.BufferedReader;



public class market_database_handling {
    Scanner in = new Scanner(System.in);

    static account_handling acch = new account_handling();
    static Client cli = new Client();

    void get_market_status(){
        String query = "SELECT * FROM Market";

        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/bb_accounts","root","Hello@123");
            Statement stmt = con.createStatement();
            ResultSet rs = stmt.executeQuery(query);
            System.out.println("\n\n**** WELCOME TO BIG-BASKET ****");
            System.out.printf( "\n| %-15s| %10s   |%10s       | %10s |\n","Item Name", "QTY", "Expires in",
"Cost" );

System.out.println("_____________________________________________________________________");
            if(rs.next()){
                                    do{
                System.out.printf("| %-15s| %10s   |%10s days  | %10s |\n",
                            rs.getString(1),
                            rs.getString(2),
                            rs.getString(3),
                            rs.getString(4)
                        );
                                    }while(rs.next());
                            }
                            else{
```

```
                    System.out.println("Record Not Found...");
            }

System.out.println("_____________________________________________________________________");
            con.close();
        }catch(Exception e){System.out.println(e);}
    }

    int get_quantity(String item_name){
        String query = "select quantity from Market where name='"+item_name+"';";
        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/bb_accounts","root","Hello@123");
            Statement stmt = con.createStatement();
            ResultSet rs = stmt.executeQuery(query);
            rs.next();
            int quan = rs.getInt(1);
            con.close();
            return quan;
        }catch(Exception e){System.out.println(e);return -1;}
    }

    int get_expiry(String item_name){
        String query = "select expiry from Market where name='"+item_name+"';";
        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/bb_accounts","root","Hello@123");
            Statement stmt = con.createStatement();
            ResultSet rs = stmt.executeQuery(query);
            rs.next();
            int exp = rs.getInt(1);
            con.close();
            return exp;
        }catch(Exception e){System.out.println(e);return -1;}
    }

    int get_cost(String item_name){
        String query = "select cost from Market where name='"+item_name+"';";
        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/bb_accounts","root","Hello@123");
            Statement stmt = con.createStatement();
            ResultSet rs = stmt.executeQuery(query);
            rs.next();
            int cost = rs.getInt(1);
            con.close();
```

```
            return cost;
        }catch(Exception e){System.out.println(e);return -1;}
    }

    void pass_day(){
        String updt_expiry = "update Market set expiry = IF(expiry<=1, 0, expiry-1);";
        String updt_quantity = "update Market set quantity = IF(expiry<1, 0, quantity)";
        String updt_cost = "update Market set cost = IF(expiry<1, 0, cost)";
        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/bb_accounts","root","Hello@123");
            Statement stmt = con.createStatement();
            stmt.executeUpdate(updt_expiry);
            stmt.executeUpdate(updt_quantity);
            stmt.executeUpdate(updt_cost);
            System.out.println("A DAY HAS PASSED !!!");
            con.close();
        }catch(Exception e){System.out.println(e);}
    }

    int continue_shopping(){
        System.out.println("login/leave shop? (1/0) : ");
        int repeat = Integer.parseInt(in.nextLine());
        return repeat;
    }

    int choose_login_options(){
        System.out.println("1. Login");
        System.out.println("2. Signup");
        System.out.print("\nChoice : ");
        int new_acc = Integer.parseInt(in.nextLine());
        return new_acc;
    }

    void display_respective_menu(String status){
        if(status.equals("customer")){ customer_menu(); }
        if(status.equals("admin")){ admin_menu(); }
    }

    void admin_menu(){
        int choice;
        System.out.println("*** Admin Mode ***");
        System.out.println("Order default/ Order Specific ? (1/0)");
        choice = Integer.parseInt(in.nextLine());
        if(choice == 1){
            run_default_market();
        }
        else{
```

```
            System.out.println("Re-stock per category :");

            int repeat = 1;
            while(repeat != 0){

                Integer q, exp, c;        //quantity expiry cost
                String item_name;

                System.out.println("Item Name        : ");
                item_name = in.nextLine();
                System.out.println("Restock Quantity : ");
                q = Integer.parseInt(in.nextLine());
                System.out.println("New Expiry       : ");
                exp = Integer.parseInt(in.nextLine());
                System.out.println("New Cost         : ");
                c = Integer.parseInt(in.nextLine());

                System.out.println("\nRestocking...");

                String updt = "update Market set quantity ='"+q+"', expiry = '"+exp+"', cost = '"+c+"' where
name = '"+item_name+"';";
                try{
                    Class.forName("com.mysql.cj.jdbc.Driver");
                    Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/bb_accounts","root","Hello@123");
                    Statement stmt = con.createStatement();
                    stmt.executeUpdate(updt);
                    System.out.println("Restocked !");
                    con.close();
                }catch(Exception e){System.out.println(e);}

                System.out.println("Restock another item ?(1/0) ");
                repeat = Integer.parseInt(in.nextLine());
            }
        }

    }

    void customer_menu(){

        Integer count;
        System.out.print("\nNo. of items you want to BUY : ");
        count = Integer.parseInt(in.nextLine());
        int total_cost = 0;
        String[] items = new String[20];
        int[] quantities = new int[20];

        for(int ct=0; ct<count; ct++){
```

```
            String item_name;
            Integer quan;
            System.out.println("Item Name       : ");
            item_name = in.nextLine();
            System.out.println("Quantity        : ");
            quan = Integer.parseInt(in.nextLine());

            items[ct] = item_name;
            quantities[ct]=quan;
            total_cost = total_cost + buy_item(item_name, quan);
        }

        System.out.println("-----------------------------------------");
        System.out.println("YOUR BASKET : \n");
        for(int ct=0; ct<count; ct++){
            System.out.println(items[ct] + " : " + quantities[ct] );
        }
        System.out.println("cost : " + total_cost);
        System.out.println("\n\nThanks for supporting us!");
        System.out.println("-----------------------------------------");
    }

    int buy_item(String name, Integer quan){
        String updt_quantity = "update Market set quantity = IF(quantity-'"+quan+"'<1, 0,
quantity-'"+quan+"') where name='"+name+"';";
        String updt_cost = "update Market set cost = IF(quantity<1, 0, cost) where name='"+name+"';";
        String updt_exp = "update Market set expiry = IF(quantity<1, 0, expiry) where
name='"+name+"';";
        String query_cost = "select cost from Market where name='"+name+"';";
        int cost=0;
        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/bb_accounts","root","Hello@123");
            Statement stmt = con.createStatement();

            stmt.executeUpdate(updt_quantity);
            stmt.executeUpdate(updt_cost);
            stmt.executeUpdate(updt_exp);

            ResultSet rs = stmt.executeQuery(query_cost);
            rs.next();
            cost = rs.getInt(1);


            con.close();
        }catch(Exception e){System.out.println(e);}

        return (cost*quan);
```

```
    }

    void update_item(String name, Integer quan, Integer cost, Integer Expiry){
        String updt_quantity = "update Market set quantity ="'+quan+"' where name="'+name+"';";
        String updt_cost = "update Market set cost = "'+cost+"' where name="'+name+"';";
        String updt_exp = "update Market set expiry = "'+Expiry+"' where name="'+name+"';";
        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/bb_accounts","root","Hello@123");
            Statement stmt = con.createStatement();

            stmt.executeUpdate(updt_quantity);
            stmt.executeUpdate(updt_cost);
            stmt.executeUpdate(updt_exp);

            con.close();
        }catch(Exception e){System.out.println(e);}

    }

    void run_default_market(){
        //Getting the connection
        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/bb_accounts","root","Hello@123");
            System.out.println("Connection established.....");
            //Initialize the script runner
            ScriptRunner sr = new ScriptRunner(con);
            //Creating a reader object
            Reader reader = new BufferedReader(new
FileReader("/home/pratt3000/Documents/College/PICT_TE-Labs/SDL/InventoryManagement/
Database/create_table.sql"));
            //Running the script
            sr.runScript(reader);
        }catch(Exception e){System.out.println(e);}
    }
    String contact(){
        // System.out.println("---------CONTACT DETAILS--------");
        // System.out.println("\nHelp Desk : 9899998230");
        // System.out.println("Complaints : 9899998231");
        // System.out.println("Email : bgbskt@gmail.bgbskt.com");
        // System.out.println("Donate : <DONATION LINK>");

        return("---------CONTACT DETAILS--------\nHelp Desk : 9899998230\nComplaints :
9899998231\nComplaints : 9899998231\nEmail : bgbskt@gmail.bgbskt.com\nDonate : <DONATION
LINK>");
    }
```

```
    String about(){
        // System.out.println("--------- ABOUT --------");
        // System.out.println("\nBigbasket company was founded by V S Sudhakar, Hari Menon, Vipul Parekh, Abhinay Choudhari and V S Ramesh in 2011. Initially, in 1999, they started India's first e-commerce site FabMart and then went on to establish Fabmall-Trinethra chain of more than 200 grocery supermarket stores in southern India, the business was later sold to Aditya Birla Group. It is popularly known as 'More' retail chain.[6] In 2011 they launched bigbasket online grocery delivery service. On August 9, 2019, bigbasket partnered with a non-profit organisation Goonj and through their Rahat flood programme provided relief materials to people who were affected during the Kerala Flood");
        return("--------- ABOUT --------\nBigbasket company was founded by V S Sudhakar, Hari Menon, Vipul Parekh, Abhinay Choudhari and V S Ramesh in 2011. Initially, in 1999, they started India's first e-commerce site FabMart and then went on to establish Fabmall-Trinethra chain of more than 200 grocery supermarket stores in southern India, the business was later sold to Aditya Birla Group. It is popularly known as 'More' retail chain.[6] In 2011 they launched bigbasket online grocery delivery service. On August 9, 2019, bigbasket partnered with a non-profit organisation Goonj and through their Rahat flood programme provided relief materials to people who were affected during the Kerala Flood");
    }

    String FAQ(){
        // System.out.println("--------- FAQs --------");
        // System.out.println("1. when was bigbasket founded?");
        // System.out.println("2007");
        // System.out.println("1. who founded big basket?");
        // System.out.println("someone did");

        return ("--------- FAQs --------\n1. when was bigbasket founded?\n2007\n2. who founded big basket?\nsomeone did");
    }

}

import javax.swing.*;
import java.awt.*;
import java.awt.event.*;

@SuppressWarnings("serial")
public class market_form extends JFrame implements ActionListener{

    private Container c;
    private JLabel title;
    private JLabel res;

    private JLabel tab_name;
    private JLabel tab_quan;
    private JLabel tab_exp;
    private JLabel tab_cost;
```

```
private JLabel tab_buy_amt;

private JLabel spinach;
private JLabel cauliflower;
private JLabel mushroom;
private JLabel beet;
private JLabel brocolli;
private JLabel cabbage;
private JLabel apple;
private JLabel orange;
private JLabel banana;
private JLabel cherry;
private JLabel chicken;
private JLabel fish;
private JLabel crab;

private JLabel spinach_quan;
private JLabel cauliflower_quan;
private JLabel mushroom_quan;
private JLabel beet_quan;
private JLabel brocolli_quan;
private JLabel cabbage_quan;
private JLabel apple_quan;
private JLabel orange_quan;
private JLabel banana_quan;
private JLabel cherry_quan;
private JLabel chicken_quan;
private JLabel fish_quan;
private JLabel crab_quan;

private JLabel spinach_exp;
private JLabel cauliflower_exp;
private JLabel mushroom_exp;
private JLabel beet_exp;
private JLabel brocolli_exp;
private JLabel cabbage_exp;
private JLabel apple_exp;
private JLabel orange_exp;
private JLabel banana_exp;
private JLabel cherry_exp;
private JLabel chicken_exp;
private JLabel fish_exp;
private JLabel crab_exp;

private JLabel spinach_cost;
private JLabel cauliflower_cost;
private JLabel mushroom_cost;
private JLabel beet_cost;
private JLabel brocolli_cost;
```

```
private JLabel cabbage_cost;
private JLabel apple_cost;
private JLabel oranges_cost;
private JLabel banana_cost;
private JLabel cherry_cost;
private JLabel chicken_cost;
private JLabel fish_cost;
private JLabel crab_cost;

private JTextField spinach_buy_quan;
private JTextField cauliflower_buy_quan;
private JTextField mushroom_buy_quan;
private JTextField beet_buy_quan;
private JTextField brocolli_buy_quan;
private JTextField cabbage_buy_quan;
private JTextField apple_buy_quan;
private JTextField orange_buy_quan;
private JTextField banana_buy_quan;
private JTextField cherry_buy_quan;
private JTextField chicken_buy_quan;
private JTextField fish_buy_quan;
private JTextField crab_buy_quan;

private JButton Checkout;
private JButton back;
private JButton reset;

static market_database_handling mdh = new market_database_handling();

String name;
int cost;
int exp;
int quan;
int y_coor;
String username;

public void form(String username){
    username = "null";
    this.username = username;

    setTitle("Market");
    setBounds(100, 100, 1000, 850);
    setDefaultCloseOperation(EXIT_ON_CLOSE);
    setResizable(false);

    c = getContentPane();
    c.setLayout(null);

    title = new JLabel("Market");
```

```
title.setFont(new Font("Arial", Font.PLAIN, 30));
title.setSize(500, 30);
title.setLocation(450, 30);
c.add(title);

tab_name = new JLabel("NAME");
tab_name.setFont(new Font("Arial", Font.BOLD, 15));
tab_name.setSize(100, 30);
tab_name.setLocation(50, 100);
c.add(tab_name);

tab_quan = new JLabel("QUANTITY");
tab_quan.setFont(new Font("Arial", Font.BOLD, 15));
tab_quan.setSize(100, 30);
tab_quan.setLocation(200, 100);
c.add(tab_quan);

tab_cost = new JLabel("COST");
tab_cost.setFont(new Font("Arial", Font.BOLD, 15));
tab_cost.setSize(200, 30);
tab_cost.setLocation(350, 100);
c.add(tab_cost);

tab_exp = new JLabel("EXPIRES IN");
tab_exp.setFont(new Font("Arial", Font.BOLD, 15));
tab_exp.setSize(100, 30);
tab_exp.setLocation(500, 100);
c.add(tab_exp);

tab_buy_amt = new JLabel("BUY");
tab_buy_amt.setFont(new Font("Arial", Font.BOLD, 15));
tab_buy_amt.setSize(100, 30);
tab_buy_amt.setLocation(700, 100);
c.add(tab_buy_amt);

name = "Spinach";
y_coor = 150;
cost = mdh.get_cost(name);
exp = mdh.get_expiry(name);
quan = mdh.get_quantity(name);
spinach = new JLabel(name);
spinach.setFont(new Font("Arial", Font.BOLD, 15));
spinach.setSize(100, 30);
spinach.setLocation(50, y_coor);
c.add(spinach);
spinach_quan = new JLabel(String.valueOf(quan));
spinach_quan.setFont(new Font("Arial", Font.BOLD, 15));
spinach_quan.setSize(100, 30);
spinach_quan.setLocation(200, y_coor);
```

```
c.add(spinach_quan);
spinach_cost = new JLabel(String.valueOf(cost));
spinach_cost.setFont(new Font("Arial", Font.BOLD, 15));
spinach_cost.setSize(100, 30);
spinach_cost.setLocation(350, y_coor);
c.add(spinach_cost);
spinach_exp = new JLabel(String.valueOf(exp));
spinach_exp.setFont(new Font("Arial", Font.BOLD, 15));
spinach_exp.setSize(100, 30);
spinach_exp.setLocation(500, y_coor);
c.add(spinach_exp);

name = "Cauli-flower";
y_coor = 180;
cost = mdh.get_cost(name);
exp = mdh.get_expiry(name);
quan = mdh.get_quantity(name);
cauliflower = new JLabel(name);
cauliflower.setFont(new Font("Arial", Font.BOLD, 15));
cauliflower.setSize(100, 30);
cauliflower.setLocation(50, y_coor);
c.add(cauliflower);
cauliflower_quan = new JLabel(String.valueOf(quan));
cauliflower_quan.setFont(new Font("Arial", Font.BOLD, 15));
cauliflower_quan.setSize(100, 30);
cauliflower_quan.setLocation(200, y_coor);
c.add(cauliflower_quan);
cauliflower_cost = new JLabel(String.valueOf(cost));
cauliflower_cost.setFont(new Font("Arial", Font.BOLD, 15));
cauliflower_cost.setSize(100, 30);
cauliflower_cost.setLocation(350, y_coor);
c.add(cauliflower_cost);
cauliflower_exp = new JLabel(String.valueOf(exp));
cauliflower_exp.setFont(new Font("Arial", Font.BOLD, 15));
cauliflower_exp.setSize(100, 30);
cauliflower_exp.setLocation(500, y_coor);
c.add(cauliflower_exp);

name = "Mushrooms";
y_coor = 210;
cost = mdh.get_cost(name);
exp = mdh.get_expiry(name);
quan = mdh.get_quantity(name);
mushroom = new JLabel(name);
mushroom.setFont(new Font("Arial", Font.BOLD, 15));
mushroom.setSize(100, 30);
mushroom.setLocation(50, y_coor);
c.add(mushroom);
mushroom_quan = new JLabel(String.valueOf(quan));
```

```
mushroom_quan.setFont(new Font("Arial", Font.BOLD, 15));
mushroom_quan.setSize(100, 30);
mushroom_quan.setLocation(200, y_coor);
c.add(mushroom_quan);
mushroom_cost = new JLabel(String.valueOf(cost));
mushroom_cost.setFont(new Font("Arial", Font.BOLD, 15));
mushroom_cost.setSize(100, 30);
mushroom_cost.setLocation(350, y_coor);
c.add(mushroom_cost);
mushroom_exp = new JLabel(String.valueOf(exp));
mushroom_exp.setFont(new Font("Arial", Font.BOLD, 15));
mushroom_exp.setSize(100, 30);
mushroom_exp.setLocation(500, y_coor);
c.add(mushroom_exp);

name = "Beet";
y_coor = 240;
cost = mdh.get_cost(name);
exp = mdh.get_expiry(name);
quan = mdh.get_quantity(name);
beet = new JLabel(name);
beet.setFont(new Font("Arial", Font.BOLD, 15));
beet.setSize(100, 30);
beet.setLocation(50, y_coor);
c.add(beet);
beet_quan = new JLabel(String.valueOf(quan));
beet_quan.setFont(new Font("Arial", Font.BOLD, 15));
beet_quan.setSize(100, 30);
beet_quan.setLocation(200, y_coor);
c.add(beet_quan);
beet_cost = new JLabel(String.valueOf(cost));
beet_cost.setFont(new Font("Arial", Font.BOLD, 15));
beet_cost.setSize(100, 30);
beet_cost.setLocation(350, y_coor);
c.add(beet_cost);
beet_exp = new JLabel(String.valueOf(exp));
beet_exp.setFont(new Font("Arial", Font.BOLD, 15));
beet_exp.setSize(100, 30);
beet_exp.setLocation(500, y_coor);
c.add(beet_exp);

name = "Brocolli";
y_coor = 270;
cost = mdh.get_cost(name);
exp = mdh.get_expiry(name);
quan = mdh.get_quantity(name);
brocolli = new JLabel(name);
brocolli.setFont(new Font("Arial", Font.BOLD, 15));
brocolli.setSize(100, 30);
```

```
brocolli.setLocation(50, y_coor);
c.add(brocolli);
brocolli_quan = new JLabel(String.valueOf(quan));
brocolli_quan.setFont(new Font("Arial", Font.BOLD, 15));
brocolli_quan.setSize(100, 30);
brocolli_quan.setLocation(200, y_coor);
c.add(brocolli_quan);
brocolli_cost = new JLabel(String.valueOf(cost));
brocolli_cost.setFont(new Font("Arial", Font.BOLD, 15));
brocolli_cost.setSize(100, 30);
brocolli_cost.setLocation(350, y_coor);
c.add(brocolli_cost);
brocolli_exp = new JLabel(String.valueOf(exp));
brocolli_exp.setFont(new Font("Arial", Font.BOLD, 15));
brocolli_exp.setSize(100, 30);
brocolli_exp.setLocation(500, y_coor);
c.add(brocolli_exp);

name = "Cabbage";
y_coor = 300;
cost = mdh.get_cost(name);
exp = mdh.get_expiry(name);
quan = mdh.get_quantity(name);
cabbage = new JLabel(name);
cabbage.setFont(new Font("Arial", Font.BOLD, 15));
cabbage.setSize(100, 30);
cabbage.setLocation(50, y_coor);
c.add(cabbage);
cabbage_quan = new JLabel(String.valueOf(quan));
cabbage_quan.setFont(new Font("Arial", Font.BOLD, 15));
cabbage_quan.setSize(100, 30);
cabbage_quan.setLocation(200, y_coor);
c.add(cabbage_quan);
cabbage_cost = new JLabel(String.valueOf(cost));
cabbage_cost.setFont(new Font("Arial", Font.BOLD, 15));
cabbage_cost.setSize(100, 30);
cabbage_cost.setLocation(350, y_coor);
c.add(cabbage_cost);
cabbage_exp = new JLabel(String.valueOf(exp));
cabbage_exp.setFont(new Font("Arial", Font.BOLD, 15));
cabbage_exp.setSize(100, 30);
cabbage_exp.setLocation(500, y_coor);
c.add(cabbage_exp);

name = "Apple";
y_coor = 330;
cost = mdh.get_cost(name);
exp = mdh.get_expiry(name);
quan = mdh.get_quantity(name);
```

```
apple = new JLabel(name);
apple.setFont(new Font("Arial", Font.BOLD, 15));
apple.setSize(100, 30);
apple.setLocation(50, y_coor);
c.add(apple);
apple_quan = new JLabel(String.valueOf(quan));
apple_quan.setFont(new Font("Arial", Font.BOLD, 15));
apple_quan.setSize(100, 30);
apple_quan.setLocation(200, y_coor);
c.add(apple_quan);
apple_cost = new JLabel(String.valueOf(cost));
apple_cost.setFont(new Font("Arial", Font.BOLD, 15));
apple_cost.setSize(100, 30);
apple_cost.setLocation(350, y_coor);
c.add(apple_cost);
apple_exp = new JLabel(String.valueOf(exp));
apple_exp.setFont(new Font("Arial", Font.BOLD, 15));
apple_exp.setSize(100, 30);
apple_exp.setLocation(500, y_coor);
c.add(apple_exp);

name = "Orange";
y_coor = 360;
cost = mdh.get_cost(name);
exp = mdh.get_expiry(name);
quan = mdh.get_quantity(name);
orange = new JLabel(name);
orange.setFont(new Font("Arial", Font.BOLD, 15));
orange.setSize(100, 30);
orange.setLocation(50, y_coor);
c.add(orange);
orange_quan = new JLabel(String.valueOf(quan));
orange_quan.setFont(new Font("Arial", Font.BOLD, 15));
orange_quan.setSize(100, 30);
orange_quan.setLocation(200, y_coor);
c.add(orange_quan);
oranges_cost = new JLabel(String.valueOf(cost));
oranges_cost.setFont(new Font("Arial", Font.BOLD, 15));
oranges_cost.setSize(100, 30);
oranges_cost.setLocation(350, y_coor);
c.add(oranges_cost);
orange_exp = new JLabel(String.valueOf(exp));
orange_exp.setFont(new Font("Arial", Font.BOLD, 15));
orange_exp.setSize(100, 30);
orange_exp.setLocation(500, y_coor);
c.add(orange_exp);

name = "Bananas";
y_coor = 390;
```

```
cost = mdh.get_cost(name);
exp = mdh.get_expiry(name);
quan = mdh.get_quantity(name);
banana = new JLabel(name);
banana.setFont(new Font("Arial", Font.BOLD, 15));
banana.setSize(100, 30);
banana.setLocation(50, y_coor);
c.add(banana);
banana_quan = new JLabel(String.valueOf(quan));
banana_quan.setFont(new Font("Arial", Font.BOLD, 15));
banana_quan.setSize(100, 30);
banana_quan.setLocation(200, y_coor);
c.add(banana_quan);
banana_cost = new JLabel(String.valueOf(cost));
banana_cost.setFont(new Font("Arial", Font.BOLD, 15));
banana_cost.setSize(100, 30);
banana_cost.setLocation(350, y_coor);
c.add(banana_cost);
banana_exp = new JLabel(String.valueOf(exp));
banana_exp.setFont(new Font("Arial", Font.BOLD, 15));
banana_exp.setSize(100, 30);
banana_exp.setLocation(500, y_coor);
c.add(banana_exp);

name = "Cherries";
y_coor = 420;
cost = mdh.get_cost(name);
exp = mdh.get_expiry(name);
quan = mdh.get_quantity(name);
cherry = new JLabel(name);
cherry.setFont(new Font("Arial", Font.BOLD, 15));
cherry.setSize(100, 30);
cherry.setLocation(50, y_coor);
c.add(cherry);
cherry_quan = new JLabel(String.valueOf(quan));
cherry_quan.setFont(new Font("Arial", Font.BOLD, 15));
cherry_quan.setSize(100, 30);
cherry_quan.setLocation(200, y_coor);
c.add(cherry_quan);
cherry_cost = new JLabel(String.valueOf(cost));
cherry_cost.setFont(new Font("Arial", Font.BOLD, 15));
cherry_cost.setSize(100, 30);
cherry_cost.setLocation(350, y_coor);
c.add(cherry_cost);
cherry_exp = new JLabel(String.valueOf(exp));
cherry_exp.setFont(new Font("Arial", Font.BOLD, 15));
cherry_exp.setSize(100, 30);
cherry_exp.setLocation(500, y_coor);
c.add(cherry_exp);
```

```
name = "Chicken";
y_coor = 450;
cost = mdh.get_cost(name);
exp = mdh.get_expiry(name);
quan = mdh.get_quantity(name);
chicken = new JLabel(name);
chicken.setFont(new Font("Arial", Font.BOLD, 15));
chicken.setSize(100, 30);
chicken.setLocation(50, y_coor);
c.add(chicken);
chicken_quan = new JLabel(String.valueOf(quan));
chicken_quan.setFont(new Font("Arial", Font.BOLD, 15));
chicken_quan.setSize(100, 30);
chicken_quan.setLocation(200, y_coor);
c.add(chicken_quan);
chicken_cost = new JLabel(String.valueOf(cost));
chicken_cost.setFont(new Font("Arial", Font.BOLD, 15));
chicken_cost.setSize(100, 30);
chicken_cost.setLocation(350, y_coor);
c.add(chicken_cost);
chicken_exp = new JLabel(String.valueOf(exp));
chicken_exp.setFont(new Font("Arial", Font.BOLD, 15));
chicken_exp.setSize(100, 30);
chicken_exp.setLocation(500, y_coor);
c.add(chicken_exp);

name = "Fish";
y_coor = 480;
cost = mdh.get_cost(name);
exp = mdh.get_expiry(name);
quan = mdh.get_quantity(name);
fish = new JLabel(name);
fish.setFont(new Font("Arial", Font.BOLD, 15));
fish.setSize(100, 30);
fish.setLocation(50, y_coor);
c.add(fish);
fish_quan = new JLabel(String.valueOf(quan));
fish_quan.setFont(new Font("Arial", Font.BOLD, 15));
fish_quan.setSize(100, 30);
fish_quan.setLocation(200, y_coor);
c.add(fish_quan);
fish_cost = new JLabel(String.valueOf(cost));
fish_cost.setFont(new Font("Arial", Font.BOLD, 15));
fish_cost.setSize(100, 30);
fish_cost.setLocation(350, y_coor);
c.add(fish_cost);
fish_exp = new JLabel(String.valueOf(exp));
fish_exp.setFont(new Font("Arial", Font.BOLD, 15));
```

```
fish_exp.setSize(100, 30);
fish_exp.setLocation(500, y_coor);
c.add(fish_exp);

name = "Crabs";
y_coor = 510;
cost = mdh.get_cost(name);
exp = mdh.get_expiry(name);
quan = mdh.get_quantity(name);
crab = new JLabel(name);
crab.setFont(new Font("Arial", Font.BOLD, 15));
crab.setSize(100, 30);
crab.setLocation(50, y_coor);
c.add(crab);
crab_quan = new JLabel(String.valueOf(quan));
crab_quan.setFont(new Font("Arial", Font.BOLD, 15));
crab_quan.setSize(100, 30);
crab_quan.setLocation(200, y_coor);
c.add(crab_quan);
crab_cost = new JLabel(String.valueOf(cost));
crab_cost.setFont(new Font("Arial", Font.BOLD, 15));
crab_cost.setSize(100, 30);
crab_cost.setLocation(350, y_coor);
c.add(crab_cost);
crab_exp = new JLabel(String.valueOf(exp));
crab_exp.setFont(new Font("Arial", Font.BOLD, 15));
crab_exp.setSize(100, 30);
crab_exp.setLocation(500, y_coor);
c.add(crab_exp);

//////TEXT FIELDS
y_coor = 150;
spinach_buy_quan = new JTextField("0");
spinach_buy_quan.setFont(new Font("Arial", Font.PLAIN, 15));
spinach_buy_quan.setSize(50, 30);
spinach_buy_quan.setLocation(700, y_coor);
y_coor = y_coor + 30;
c.add(spinach_buy_quan);

cauliflower_buy_quan = new JTextField("0");
cauliflower_buy_quan.setFont(new Font("Arial", Font.PLAIN, 15));
cauliflower_buy_quan.setSize(50, 30);
cauliflower_buy_quan.setLocation(700, y_coor);
y_coor = y_coor + 30;
c.add(cauliflower_buy_quan);

mushroom_buy_quan = new JTextField("0");
mushroom_buy_quan.setFont(new Font("Arial", Font.PLAIN, 15));
mushroom_buy_quan.setSize(50, 30);
```

```
mushroom_buy_quan.setLocation(700, y_coor);
y_coor = y_coor + 30;
c.add(mushroom_buy_quan);

beet_buy_quan = new JTextField("0");
beet_buy_quan.setFont(new Font("Arial", Font.PLAIN, 15));
beet_buy_quan.setSize(50, 30);
beet_buy_quan.setLocation(700, y_coor);
y_coor = y_coor + 30;
c.add(beet_buy_quan);

brocolli_buy_quan = new JTextField("0");
brocolli_buy_quan.setFont(new Font("Arial", Font.PLAIN, 15));
brocolli_buy_quan.setSize(50, 30);
brocolli_buy_quan.setLocation(700, y_coor);
y_coor = y_coor + 30;
c.add(brocolli_buy_quan);

cabbage_buy_quan = new JTextField("0");
cabbage_buy_quan.setFont(new Font("Arial", Font.PLAIN, 15));
cabbage_buy_quan.setSize(50, 30);
cabbage_buy_quan.setLocation(700, y_coor);
y_coor = y_coor + 30;
c.add(cabbage_buy_quan);

apple_buy_quan = new JTextField("0");
apple_buy_quan.setFont(new Font("Arial", Font.PLAIN, 15));
apple_buy_quan.setSize(50, 30);
apple_buy_quan.setLocation(700, y_coor);
y_coor = y_coor + 30;
c.add(apple_buy_quan);

orange_buy_quan = new JTextField("0");
orange_buy_quan.setFont(new Font("Arial", Font.PLAIN, 15));
orange_buy_quan.setSize(50, 30);
orange_buy_quan.setLocation(700, y_coor);
y_coor = y_coor + 30;
c.add(orange_buy_quan);

banana_buy_quan = new JTextField("0");
banana_buy_quan.setFont(new Font("Arial", Font.PLAIN, 15));
banana_buy_quan.setSize(50, 30);
banana_buy_quan.setLocation(700, y_coor);
y_coor = y_coor + 30;
c.add(banana_buy_quan);

cherry_buy_quan = new JTextField("0");
cherry_buy_quan.setFont(new Font("Arial", Font.PLAIN, 15));
cherry_buy_quan.setSize(50, 30);
```

```
cherry_buy_quan.setLocation(700, y_coor);
y_coor = y_coor + 30;
c.add(cherry_buy_quan);

chicken_buy_quan = new JTextField("0");
chicken_buy_quan.setFont(new Font("Arial", Font.PLAIN, 15));
chicken_buy_quan.setSize(50, 30);
chicken_buy_quan.setLocation(700, y_coor);
y_coor = y_coor + 30;
c.add(chicken_buy_quan);

fish_buy_quan = new JTextField("0");
fish_buy_quan.setFont(new Font("Arial", Font.PLAIN, 15));
fish_buy_quan.setSize(50, 30);
fish_buy_quan.setLocation(700, y_coor);
y_coor = y_coor + 30;
c.add(fish_buy_quan);

crab_buy_quan = new JTextField("0");
crab_buy_quan.setFont(new Font("Arial", Font.PLAIN, 15));
crab_buy_quan.setSize(50, 30);
crab_buy_quan.setLocation(700, y_coor);
y_coor = y_coor + 30;
c.add(crab_buy_quan);

//////BUTTONS

back = new JButton("Back");
back.setFont(new Font("Arial", Font.PLAIN, 20));
back.setSize(150, 40);
back.setLocation(250, 750);
back.addActionListener(this);
c.add(back);

Checkout = new JButton("Checkout");
Checkout.setFont(new Font("Arial", Font.PLAIN, 20));
Checkout.setSize(150, 40);
Checkout.setLocation(450, 750);
Checkout.addActionListener(this);
c.add(Checkout);

reset = new JButton("Reset");
reset.setFont(new Font("Arial", Font.PLAIN, 20));
reset.setSize(150, 40);
reset.setLocation(650, 750);
reset.addActionListener(this);
c.add(reset);

res = new JLabel("");
```

```
    res.setFont(new Font("Arial", Font.PLAIN, 20));
    res.setSize(500, 25);
    res.setLocation(100, 600);
    c.add(res);

    setVisible(true);
}

public void actionPerformed(ActionEvent e) {

    home_page home = new home_page();
    thankyou_screen ty = new thankyou_screen();

    if (e.getSource() == Checkout) {
        int quan;
        int total_cost=0;
        quan = Integer.parseInt(spinach_buy_quan.getText());
        total_cost += mdh.buy_item("Spinach", quan);
        quan = Integer.parseInt(cauliflower_buy_quan.getText());
        total_cost += mdh.buy_item("Cauli-flower", quan);
        quan = Integer.parseInt(mushroom_buy_quan.getText());
        total_cost += mdh.buy_item("Mushrooms", quan);
        quan = Integer.parseInt(beet_buy_quan.getText());
        total_cost += mdh.buy_item("Beet", quan);
        quan = Integer.parseInt(brocolli_buy_quan.getText());
        total_cost += mdh.buy_item("Brocolli", quan);
        quan = Integer.parseInt(cabbage_buy_quan.getText());
        total_cost += mdh.buy_item("Cabbage", quan);
        quan = Integer.parseInt(apple_buy_quan.getText());
        total_cost += mdh.buy_item("Apple", quan);
        quan = Integer.parseInt(orange_buy_quan.getText());
        total_cost += mdh.buy_item("Orange", quan);
        quan = Integer.parseInt(banana_buy_quan.getText());
        total_cost += mdh.buy_item("Bananas", quan);
        quan = Integer.parseInt(cherry_buy_quan.getText());
        total_cost += mdh.buy_item("Cherries", quan);
        quan = Integer.parseInt(chicken_buy_quan.getText());
        total_cost += mdh.buy_item("Chicken", quan);
        quan = Integer.parseInt(fish_buy_quan.getText());
        total_cost += mdh.buy_item("Fish", quan);
        quan = Integer.parseInt(crab_buy_quan.getText());
        total_cost += mdh.buy_item("Crabs", quan);
        System.out.print(total_cost);
        if(res.getText()!=""){
            ty.form(username);
            JComponent comp = (JComponent) e.getSource();
            Window win = SwingUtilities.getWindowAncestor(comp);
            win.dispose();
        }
```

```
            else{
                String bill = "COST :"+total_cost;
                res.setText(bill);
            }
        }
        else if (e.getSource() == back){

            home.form(username);
            JComponent comp = (JComponent) e.getSource();
            Window win = SwingUtilities.getWindowAncestor(comp);
            win.dispose();
        }
        else if (e.getSource() == reset){
            String def = "0";
            spinach_buy_quan.setText(def);
            cauliflower_buy_quan.setText(def);
            mushroom_buy_quan.setText(def);
            beet_buy_quan.setText(def);
            brocolli_buy_quan.setText(def);
            cabbage_buy_quan.setText(def);
            apple_buy_quan.setText(def);
            orange_buy_quan.setText(def);
            banana_buy_quan.setText(def);
            cherry_buy_quan.setText(def);
            chicken_buy_quan.setText(def);
            fish_buy_quan.setText(def);
            crab_buy_quan.setText(def);
        }
    }

    // public static void main(String[] args) throws Exception
    // {
    //     market_form F = new market_form();
    //     F.form();
    // }
}

import javax.swing.*;
import java.awt.*;
import java.awt.event.*;

@SuppressWarnings("serial")
public class reg_form extends JFrame implements ActionListener {

    // Components of the Form
    private Container c;
    private JLabel title;
    private JLabel name;
    private JTextField tname;
```

```
private JTextField tpass;
private JLabel mno;
private JTextField tmno;
private JLabel add;
private JTextArea tadd;
private JTextArea tnc;
private JCheckBox term;
private JButton sub;
private JButton back;
private JButton reset;
private JLabel res;

// constructor, to initialize the components
// with default values.
public void form() {
    setTitle("User Registration Form");
    setBounds(300, 90, 550, 600);
    setDefaultCloseOperation(EXIT_ON_CLOSE);
    setResizable(false);

    c = getContentPane();
    c.setLayout(null);

    title = new JLabel("REGISTERATION");
    title.setFont(new Font("Arial", Font.PLAIN, 30));
    title.setSize(500, 30);
    title.setLocation(165, 30);
    c.add(title);

    name = new JLabel("Username");
    name.setFont(new Font("Arial", Font.PLAIN, 20));
    name.setSize(150, 20);
    name.setLocation(100, 100);
    c.add(name);

    tname = new JTextField();
    tname.setFont(new Font("Arial", Font.PLAIN, 15));
    tname.setSize(200, 20);
    tname.setLocation(250, 100);
    c.add(tname);

    name = new JLabel("Password");
    name.setFont(new Font("Arial", Font.PLAIN, 20));
    name.setSize(150, 20);
    name.setLocation(100, 150);
    c.add(name);

    tpass = new JTextField();
    tpass.setFont(new Font("Arial", Font.PLAIN, 15));
```

```
tpass.setSize(200, 20);
tpass.setLocation(250, 150);
c.add(tpass);

mno = new JLabel("Mobile no.");
mno.setFont(new Font("Arial", Font.PLAIN, 20));
mno.setSize(150, 20);
mno.setLocation(100, 200);
c.add(mno);

tmno = new JTextField();
tmno.setFont(new Font("Arial", Font.PLAIN, 15));
tmno.setSize(200, 20);
tmno.setLocation(250, 200);
c.add(tmno);

add = new JLabel("Address");
add.setFont(new Font("Arial", Font.PLAIN, 20));
add.setSize(150, 20);
add.setLocation(100, 275);
c.add(add);

tadd = new JTextArea();
tadd.setFont(new Font("Arial", Font.PLAIN, 15));
tadd.setSize(200, 75);
tadd.setLocation(250, 250);
tadd.setLineWrap(true);
c.add(tadd);

term = new JCheckBox("Accept Terms And Conditions.");
term.setFont(new Font("Arial", Font.PLAIN, 15));
term.setSize(250, 20);
term.setLocation(100, 350);
c.add(term);

tnc = new JTextArea();
tnc.setFont(new Font("Arial", Font.PLAIN, 15));
tnc.setSize(350, 75);
tnc.setLocation(100, 375);
tnc.setLineWrap(true);
tnc.setText("1. Above 18 years of age ? ");
c.add(tnc);

sub = new JButton("Submit");
sub.setFont(new Font("Arial", Font.PLAIN, 15));
sub.setSize(100, 20);
sub.setLocation(340, 475);
sub.addActionListener(this);
c.add(sub);
```

```
    reset = new JButton("Reset");
    reset.setFont(new Font("Arial", Font.PLAIN, 15));
    reset.setSize(100, 20);
    reset.setLocation(220, 475);
    reset.addActionListener(this);
    c.add(reset);

    back = new JButton("Back");
    back.setFont(new Font("Arial", Font.PLAIN, 15));
    back.setSize(100, 20);
    back.setLocation(100, 475);
    back.addActionListener(this);
    c.add(back);

    res = new JLabel("");
    res.setFont(new Font("Arial", Font.PLAIN, 20));
    res.setSize(500, 25);
    res.setLocation(100, 500);
    c.add(res);

    setVisible(true);
}

// method actionPerformed()
// to get the action performed
// by the user and act accordingly
public void actionPerformed(ActionEvent e)
{
    String username;
    String password;
    String mobile;
    String address;
    home_page home = new home_page();
    login_reg_choose_form login_signup = new login_reg_choose_form();
    account_handling acch = new account_handling();

    if (e.getSource() == sub) {
        if (term.isSelected() ) {       // to check if terms and conditions accepted
            username = tname.getText();
            password = tpass.getText();
            mobile = tmno.getText();
            address = tadd.getText();
            String status = acch.new_user_login(username,password);

            res.setText(status);
            if(status.equals("success")){

                home.form(username); //if reg done successfully
```

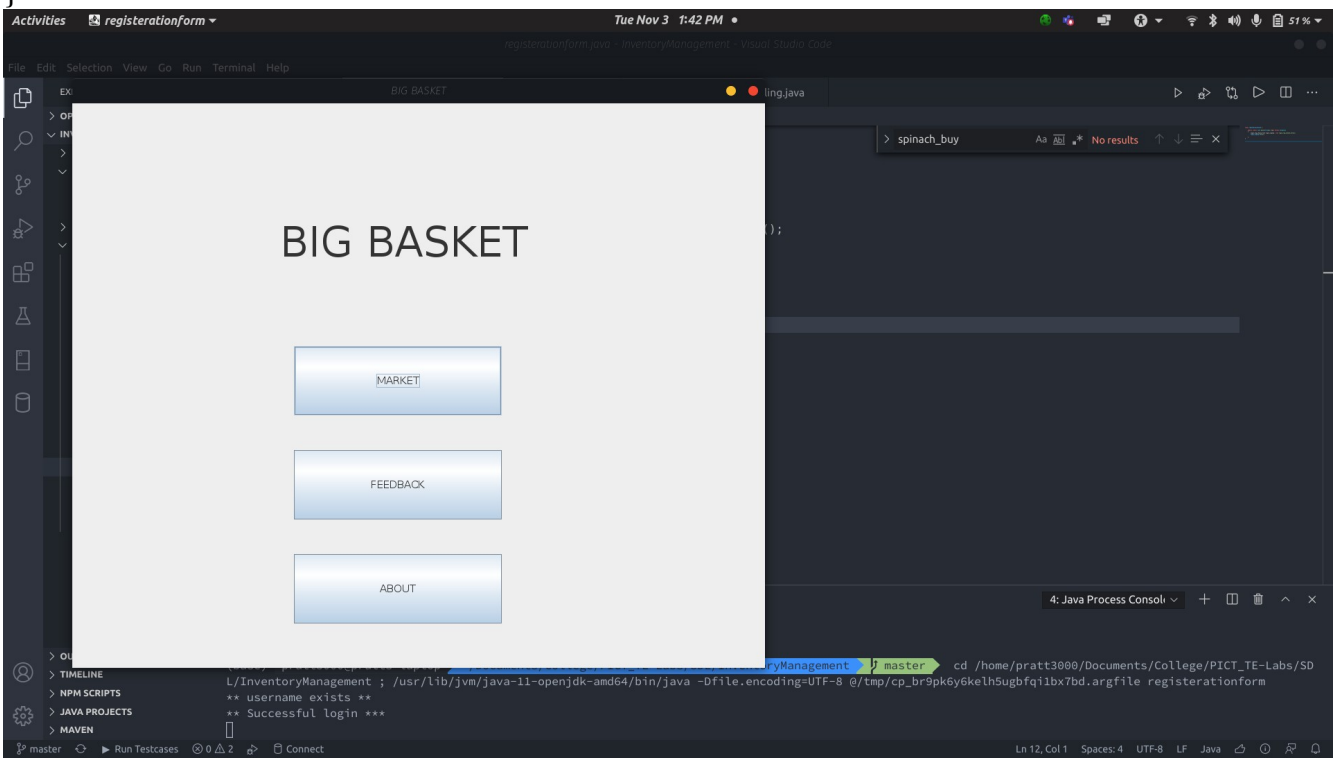
```
                JComponent comp = (JComponent) e.getSource();
                Window win = SwingUtilities.getWindowAncestor(comp);
                win.dispose();
            }
          }
          else {
             res.setText("Please accept the"
                      + " terms & conditions..");
          }
       }

       else if (e.getSource() == reset) {
          String def = "";
          tname.setText(def);
          tpass.setText(def);
          tadd.setText(def);
          tmno.setText(def);
          res.setText(def);
          term.setSelected(false);
       }
       else if (e.getSource() == back) {
          login_signup.form();
          JComponent comp = (JComponent) e.getSource();
          Window win = SwingUtilities.getWindowAncestor(comp);
          win.dispose();
       }
    }
}

class registerationform {

    public static void main(String[] args) throws Exception
    {
       login_reg_choose_form login_signup = new login_reg_choose_form();
       login_signup.form();

    }
}

import java.io.*;
import java.text.*;
import java.net.*;

// Server class
public class Server
{
    public static void main(String[] args) throws IOException
    {
       // server is listening on port 5056
```

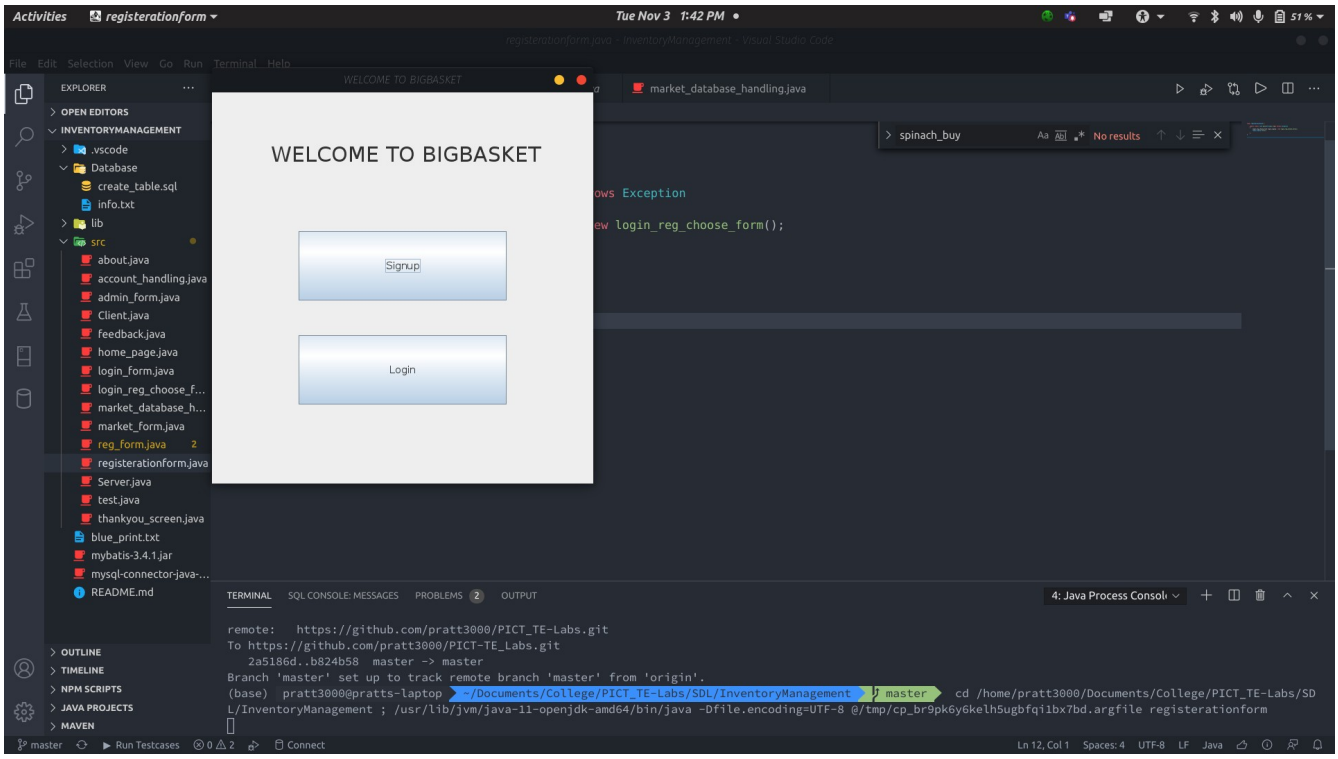
```
        ServerSocket ss = new ServerSocket(5056);

        // running infinite loop for getting
        // client request
        while (true)
        {
            Socket s = null;

            try
            {
                // socket object to receive incoming client requests
                s = ss.accept();

                System.out.println("A new client is connected : " + s);

                // obtaining input and out streams
                DataInputStream dis = new DataInputStream(s.getInputStream());
                DataOutputStream dos = new DataOutputStream(s.getOutputStream());

                System.out.println("Assigning new thread for this client");

                // create a new thread object
                Thread t = new ClientHandler(s, dis, dos);

                // Invoking the start() method
                t.start();

            }
            catch (Exception e){
                ss.close();
                e.printStackTrace();
            }
        }
    }
}

// ClientHandler class
class ClientHandler extends Thread
{
    DateFormat fordate = new SimpleDateFormat("yyyy/MM/dd");
    DateFormat fortime = new SimpleDateFormat("hh:mm:ss");
    final DataInputStream dis;
    final DataOutputStream dos;
    final Socket s;
    market_database_handling mdh = new market_database_handling();
    account_handling acch = new account_handling();

    // Constructor
    public ClientHandler(Socket s, DataInputStream dis, DataOutputStream dos)
```

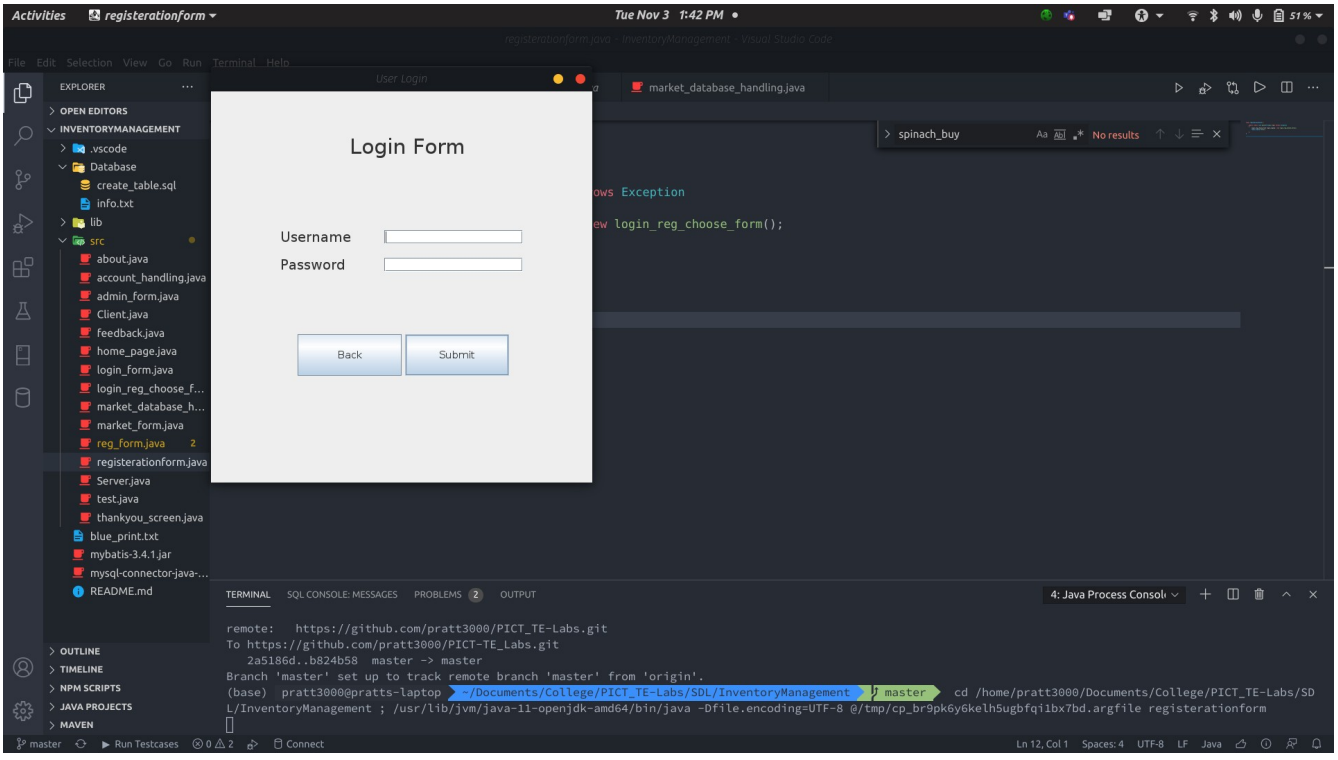
```
{
   this.s = s;
   this.dis = dis;
   this.dos = dos;
}

@Override
public void run()
{
   String received;
   while (true)
   {
      try {

         String user_name, password, status;
         received = dis.readUTF();

         switch (received) {
            case "old_user_login" :
               user_name = dis.readUTF();
               password = dis.readUTF();
               status = acch.old_user_login(user_name, password);
               dos.writeUTF(status);
               break;

            case "new_user_login" :
               user_name = dis.readUTF();
               password = dis.readUTF();
               status = acch.new_user_login(user_name, password);
               dos.writeUTF(status);
               break;

            default:
               dos.writeUTF("Breaking");
               break;
         }
         if(received.equals("terminate")){
            break;
         }
         mdh.pass_day();
      } catch (IOException e) {
         e.printStackTrace();
      }
   }

   try
   {
      // closing resources
      this.dis.close();
```

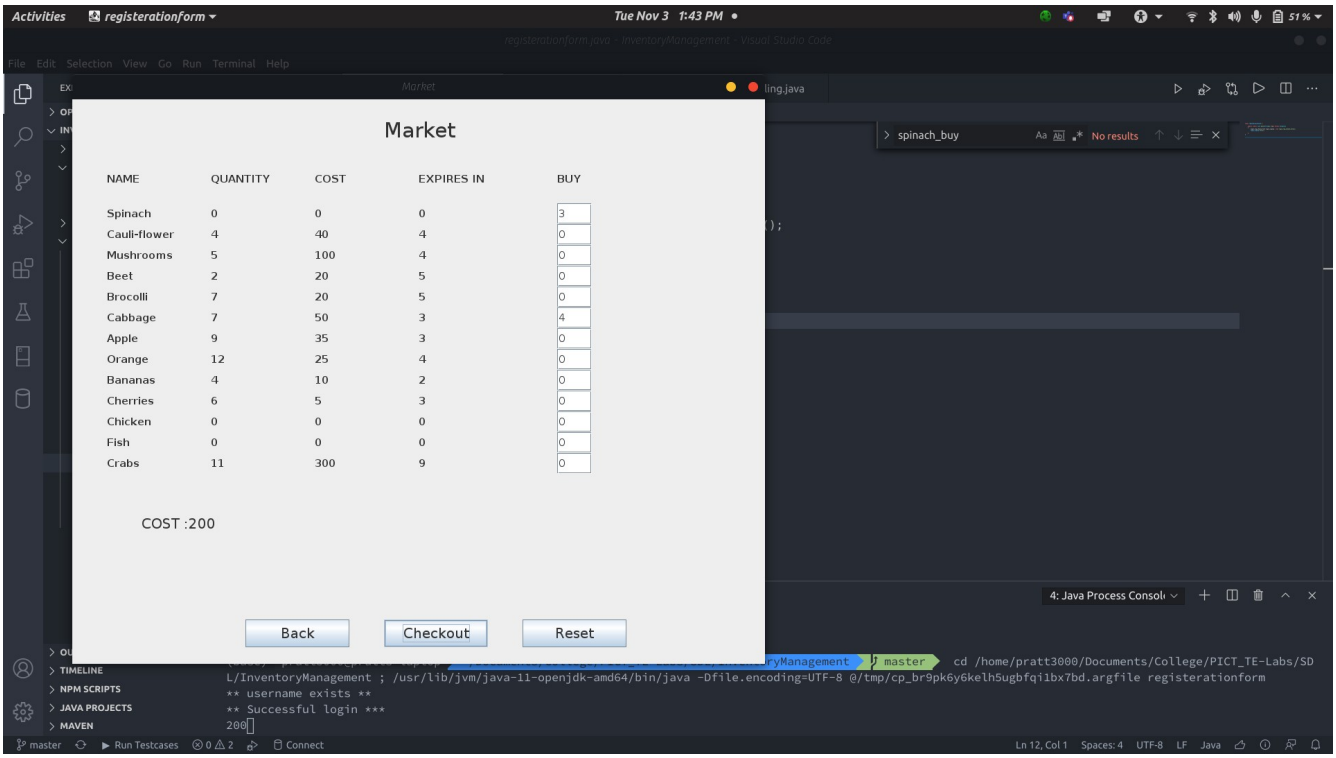
```
            this.dos.close();

        }catch(IOException e){
            e.printStackTrace();
        }
    }

}

import javax.swing.*;
import java.awt.*;
import java.awt.event.*;

@SuppressWarnings("serial")
public class thankyou_screen extends JFrame implements ActionListener{

    private Container c;
    private JLabel title;
    private JButton home;
    private JButton logout;
    String username;

    public void form(String username){
        username = "null";
        this.username = username;

        setTitle("THANK YOU");
        setBounds(300, 90, 550, 600);
        setDefaultCloseOperation(EXIT_ON_CLOSE);
        setResizable(false);

        c = getContentPane();
        c.setLayout(null);

        title = new JLabel("THANKS FOR SHOPPING!!!");
        title.setFont(new Font("Arial", Font.PLAIN, 30));
        title.setSize(500, 100);
        title.setLocation(50, 30);
        c.add(title);

        home = new JButton("HOME");
        home.setFont(new Font("Arial", Font.PLAIN, 15));
        home.setSize(150, 60);
        home.setLocation(280, 350);
        home.addActionListener(this);
        c.add(home);

        logout = new JButton("LOGOUT");
        logout.setFont(new Font("Arial", Font.PLAIN, 15));
```

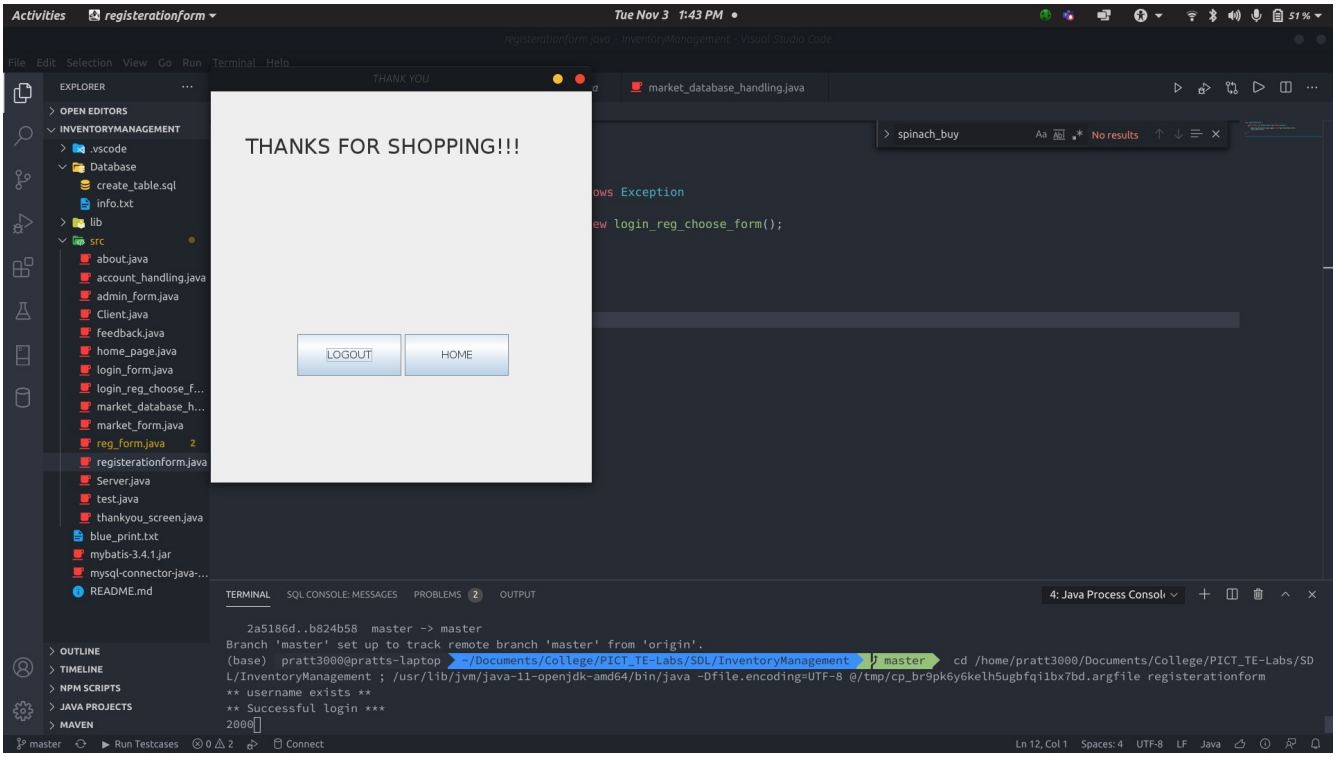
```
        logout.setSize(150, 60);
        logout.setLocation(125, 350);
        logout.addActionListener(this);
        c.add(logout);

        setVisible(true);
    }

    public void actionPerformed(ActionEvent e){
        login_reg_choose_form login_signup = new login_reg_choose_form();
        home_page hom = new home_page();

        if (e.getSource() == home){
            hom.form(username);
            JComponent comp = (JComponent) e.getSource();
            Window win = SwingUtilities.getWindowAncestor(comp);
            win.dispose();
        }
        else if (e.getSource() == logout) {
            login_signup.form();
            JComponent comp = (JComponent) e.getSource();
            Window win = SwingUtilities.getWindowAncestor(comp);
            win.dispose();
        }
    }
}
```

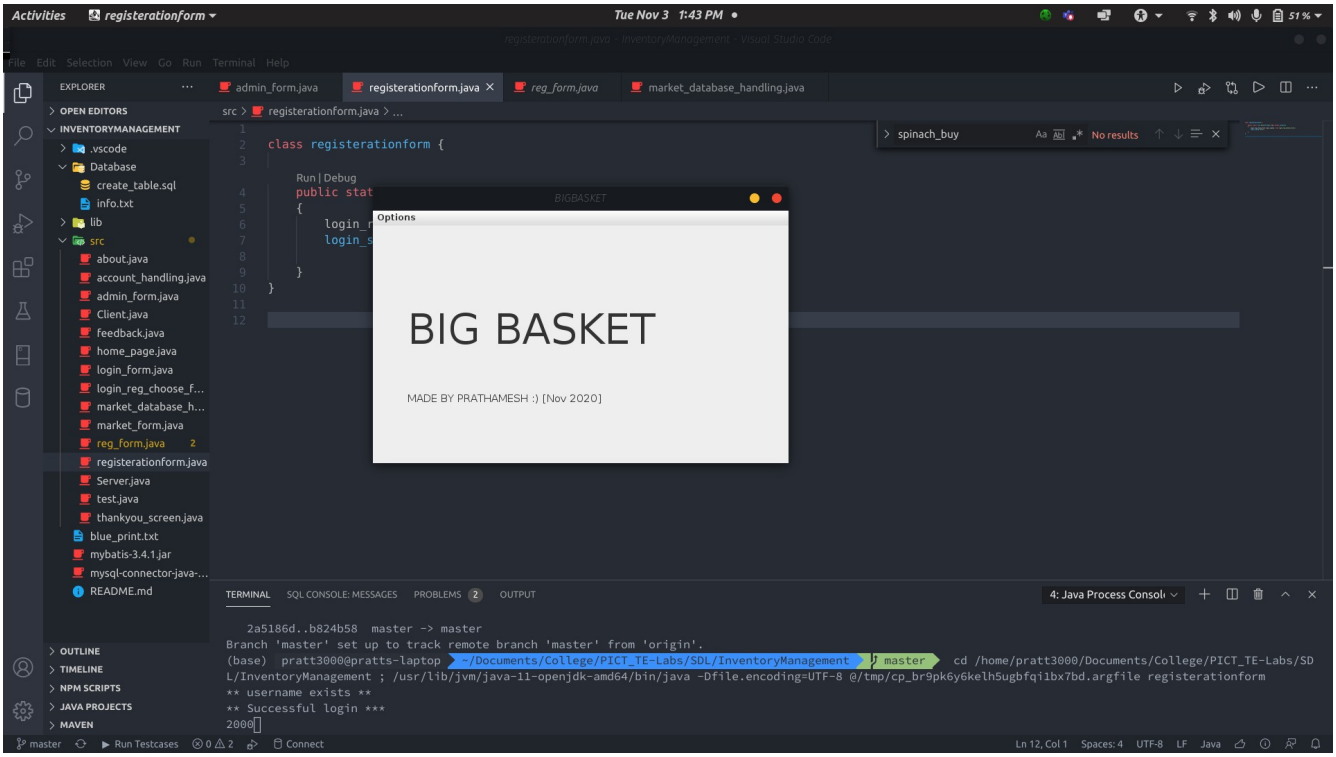


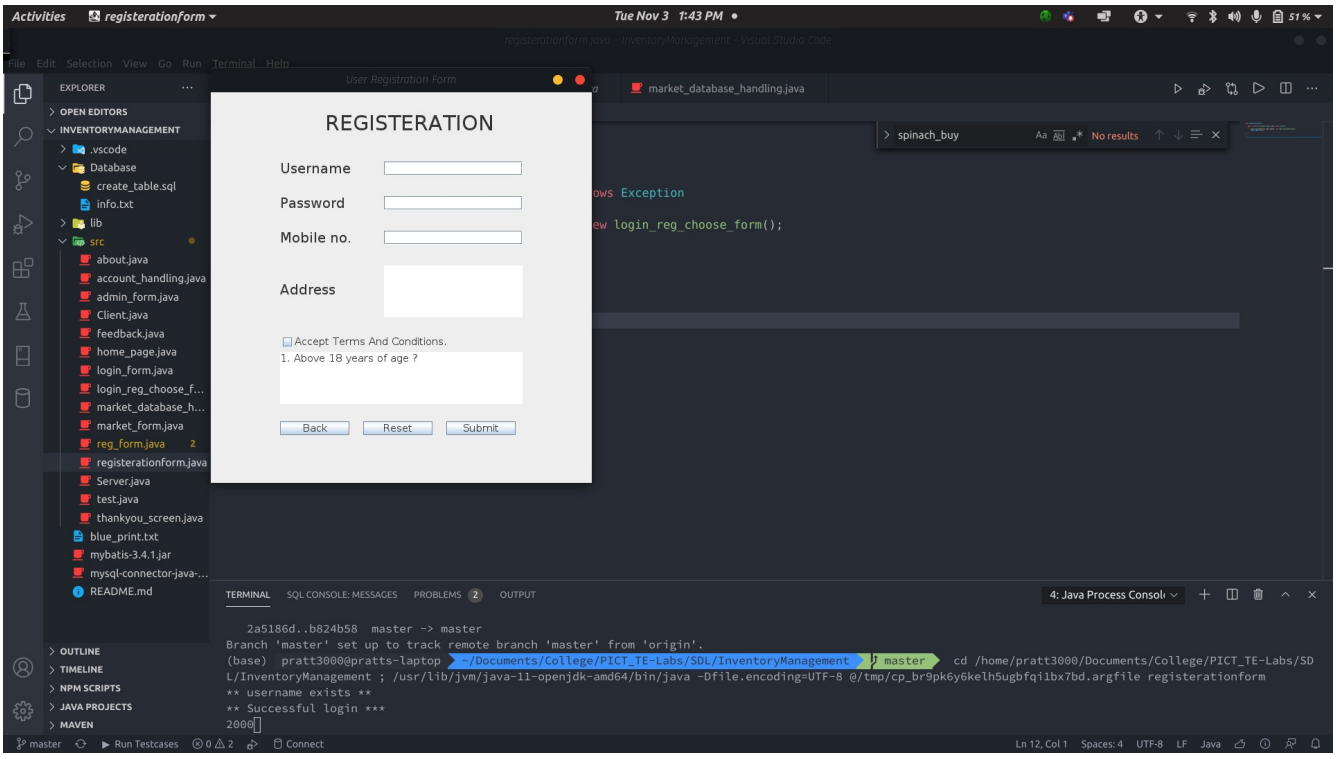

Activities
registerationform
Tue Nov 3 1:42 PM
WELCOME TO BIGBASKET
Signup
Login
market_database_handling.java
spinach_buy
No results
ows Exception
ew login_reg_choose_form();
EXPLORER
OPEN EDITORS
INVENTORYMANAGEMENT
.vscode
Database
create_table.sql
info.txt
lib
src
about.java
account_handling.java
admin_form.java
Client.java
feedback.java
home_page.java
login_form.java
login_reg_choose_f...
market_database_h...
market_form.java
reg_form.java
registerationform.java
Server.java
test.java
thankyou_screen.java
blue_print.txt
mybatis-3.4.1.jar
mysql-connector-java-...
README.md
OUTLINE
TIMELINE
NPM SCRIPTS
JAVA PROJECTS
MAVEN
TERMINAL
SQL CONSOLE: MESSAGES
PROBLEMS 2
OUTPUT
4: Java Process Consol
remote: https://github.com/pratt3000/PICT_TE-Labs.git
To https://github.com/pratt3000/PICT_TE-Labs.git
2a5186d..b824b58 master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
(base) pratt3000@pratts-laptop ~/Documents/College/PICT_TE-Labs/SDL/InventoryManagement master cd /home/pratt3000/Documents/College/PICT_TE-Labs/SDL/InventoryManagement ; /usr/lib/jvm/java-11-openjdk-amd64/bin/java -Dfile.encoding=UTF-8 @/tmp/cp_br9pk6y6kelh5ugbfqi1bx7bd.argfile registerationform
master
Run Testcases
Connect
Ln 12, Col 1
Spaces: 4
UTF-8
LF
Java

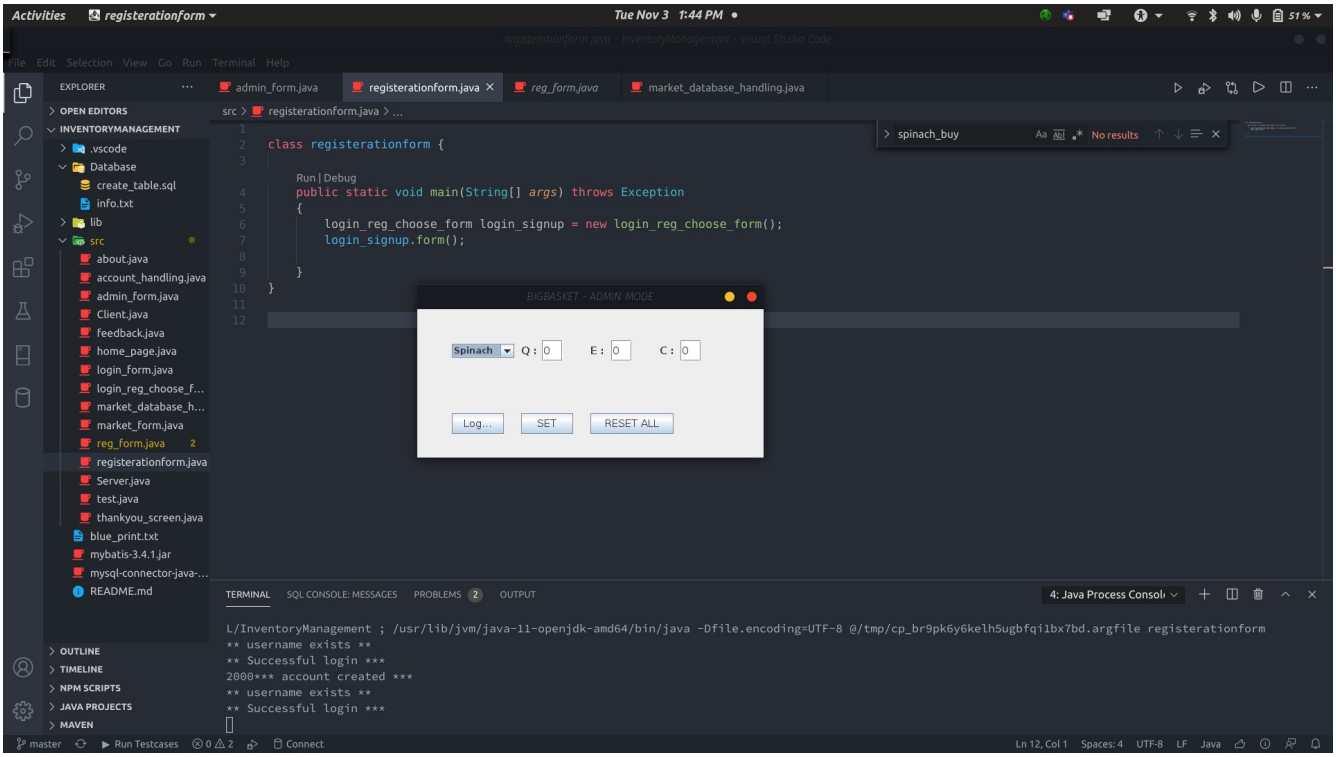

Activities
registerationform
Tue Nov 3 1:42 PM
User Login
Login Form
Username
Password
Back
Submit
market_database_handling.java
spinach_buy
No results
ows Exception
ew login_reg_choose_form();
EXPLORER
OPEN EDITORS
INVENTORYMANAGEMENT
.vscode
Database
create_table.sql
info.txt
lib
src
about.java
account_handling.java
admin_form.java
Client.java
feedback.java
home_page.java
login_form.java
login_reg_choose_f...
market_database_h...
market_form.java
reg_form.java
registerationform.java
Server.java
test.java
thankyou_screen.java
blue_print.txt
mybatis-3.4.1.jar
mysql-connector-java-...
README.md
OUTLINE
TIMELINE
NPM SCRIPTS
JAVA PROJECTS
MAVEN
TERMINAL
SQL CONSOLE: MESSAGES
PROBLEMS 2
OUTPUT
4: Java Process Consol
remote: https://github.com/pratt3000/PICT_TE-Labs.git
To https://github.com/pratt3000/PICT_TE-Labs.git
2a5186d..b824b58 master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
(base) pratt3000@pratts-laptop ~/Documents/College/PICT_TE-Labs/SDL/InventoryManagement master cd /home/pratt3000/Documents/College/PICT_TE-Labs/SDL/InventoryManagement ; /usr/lib/jvm/java-11-openjdk-amd64/bin/java -Dfile.encoding=UTF-8 @/tmp/cp_br9pk6y6kelh5ugbfqi1bx7bd.argfile registerationform
master
Run Testcases
Connect
Ln 12, Col 1
Spaces: 4
UTF-8
LF
Java


Activities
registerationform
Tue Nov 3 1:43 PM
Market
NAME QUANTITY COST EXPIRES IN BUY
Spinach 0 0 0 3
Cauli-flower 4 40 4 0
Mushrooms 5 100 4 0
Beet 2 20 5 0
Brocolli 7 20 5 0
Cabbage 7 50 3 4
Apple 9 35 3 0
Orange 12 25 4 0
Bananas 4 10 2 0
Cherries 6 5 3 0
Chicken 0 0 0 0
Fish 0 0 0 0
Crabs 11 300 9 0
COST :200
Back
Checkout
Reset
spinach_buy
No results
4: Java Process Consol
** username exists **
** Successful login ***
200


Activities
registerationform
Tue Nov 3 1:43 PM
THANK YOU
THANKS FOR SHOPPING!!!
LOGOUT
HOME
EXPLORER
OPEN EDITORS
INVENTORYMANAGEMENT
.vscode
Database
create_table.sql
info.txt
lib
src
about.java
account_handling.java
admin_form.java
Client.java
feedback.java
home_page.java
login_form.java
login_reg_choose_f...
market_database_h...
market_form.java
reg_form.java
registerationform.java
Server.java
test.java
thankyou_screen.java
blue_print.txt
mybatis-3.4.1.jar
mysql-connector-java-...
README.md
market_database_handling.java
spinach_buy
No results
TERMINAL
SQL CONSOLE: MESSAGES
PROBLEMS 2
OUTPUT
4: Java Process Consol
2a5186d..b824b58 master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
** username exists **
** Successful login ***
2000


Activities
registerationform
Tue Nov 3 1:43 PM
BIGBASKET
Options
BIG BASKET
MADE BY PRATHAMESH :) [Nov 2020]
class registerationform {
2a5186d..b824b58 master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
** username exists **
** Successful login ***
2000


Activities
registerationform
Tue Nov 3 1:43 PM
User Registration Form
REGISTERATION
Username
Password
Mobile no.
Address
Accept Terms And Conditions.
1. Above 18 years of age ?
Back
Reset
Submit
2a5186d..b824b58 master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
** username exists **
** Successful login ***
2000


Activities
registerationform
Tue Nov 3 1:44 PM
registerationform.java - InventoryManagement - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
admin_form.java
registerationform.java
reg_form.java
market_database_handling.java
src > registerationform.java > ...
spinach_buy
No results
class registerationform {
Run | Debug
public static void main(String[] args) throws Exception
{
login_reg_choose_form login_signup = new login_reg_choose_form();
login_signup.form();
}
}
BIGBASKET - ADMIN MODE
Spinach
Q :
E :
C :
Log...
SET
RESET ALL
OPEN EDITORS
INVENTORYMANAGEMENT
.vscode
Database
create_table.sql
info.txt
lib
src
about.java
account_handling.java
admin_form.java
Client.java
feedback.java
home_page.java
login_form.java
login_reg_choose_f...
market_database_h...
market_form.java
reg_form.java
registerationform.java
Server.java
test.java
thankyou_screen.java
blue_print.txt
mybatis-3.4.1.jar
mysql-connector-java-...
README.md
OUTLINE
TIMELINE
NPM SCRIPTS
JAVA PROJECTS
MAVEN
TERMINAL
SQL CONSOLE: MESSAGES
PROBLEMS 2
OUTPUT
4: Java Process Consol
L/InventoryManagement ; /usr/lib/jvm/java-11-openjdk-amd64/bin/java -Dfile.encoding=UTF-8 @/tmp/cp_br9pk6y6kelh5ugbfqi1bx7bd.argfile registerationform
** username exists **
** Successful login ***
2000*** account created ***
** username exists **
** Successful login ***
master
Run Testcases
Connect
Ln 12, Col 1
Spaces: 4
UTF-8
LF
Java

Assignment 4

Title : GUI programming using Swing

Problem Statement: Transform the system from command line to GUI Based Application

Objective : Understand the implementation of swing class

Outcome:
Students will be able to evaluate & analyze the problem & understand the GUI Concepts in JAVA

Software & Hardware Req:
64 bit OS, JDK, IDE, Intel IS procesor +, 4+GB RAM.

Theory:
Java Swing is a part of Java foundation applications (JFC) that is used to create window based applications. It is built on the top of AWI, API & completely written in JAVA
The JAVA Swing package provides classes for JAVA Swing API such as JButton, JTextfield, Jmenu, etc.

Scanned with CamScanner

Difference between AWT & Swing

Java AWT	Java Swing
1) Platform dependent	1) Platform independent
2) Heavy weight	2) light weight
3) Doesn't support plugable look feel	3) ~~AAo~~ Supports pluggable look & feel
4) less components than swing	4) more poweful components
5) Doesn't follow MVC (model view controller)	5) follows MVC

* Container classes:
Container classes are classes that can have other components on it so for creating a GUI we neet atleast one container object.
Three types of containers
1) Panel
2) Frame
3) Dialog

Scanned with CamScanner

Java Swing Class hierarchy diagram

Object	JText	JTextfield
component	JComboBox	JTextArea
container	JLabel	
Window Jcomponent	Jlist	
Frame Dialog	JMenuBar	
JFrame JDialog	JOptionPanel	
	JPanel	
	JScrollBar	
	Abstract	JButton

Java JLabel

It is a component for a single text in a container. It is used to display a single line of read only text. The text can be changed by an application but the user cant change it.

Scanned with CamScanner

Java JTextArea:
The object is a multiline region that displays text. It allows the editing of multi line text

Java JCheckBox
The JCheckBox class is used to create a checkbox. It is used to turn an option on or off

Java JRadioButton:
It is a class to create a radiobutton It is used to choose one option from multiple options.

Result: All test cases yeild result 'PASS'

Conclusion:
We were able to make a user-friendly Swing Application in Java.

Scanned with CamScanner