Stock Management System

Login Frame

Code:

```
/*
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*/

import java.io.*;
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import javax.swing.JFrame;
import java.sql.*;
import java.sql.DriverManager;

class store
{
        Connection con = null;
        public static Connection ConnecrDb()
        {
                try
                {
                        Class.forName("com.mysql.jdbc.Driver");
                        Connection con = DriverManager.getConnection(
                        "jdbc:mysql://localhost/sonoo","root","heddyshost");
```

```java
                        return con;
                }
                catch(Exception e)
                {
                        JOptionPane.showMessageDialog(null,e);
                        return null;
                }
        }
}
public class Stock_Management extends WindowAdapter
{
        Connection con = null;
        ResultSet RS = null;
        PreparedStatement PST = null;

        Frame f;
        Label lb1,lb2,lb3,lb4,lb5;
        JLabel background;
        JTextField t_username,t_password;
        JButton b1,b2;
        Image img;
        Stock_Management()
        {

                gui();
                con=store.ConnecrDb();
        }
        public void windowClosing(WindowEvent e)
        {
                f.dispose();
        }
        public void gui()
        {
                f = new Frame("Login");
                f.addWindowListener(this);
                f.setBackground(Color.WHITE);

                Font fn = new Font("TimesNewRoman",Font.PLAIN,16);
                Font fn2 = new Font("TimesNewRoman",Font.BOLD,25);
                f.setFont(fn);

                lb1 = new Label("Stock Management System");
                lb1.setForeground(Color.BLACK);
                lb1.setFont(fn2);
                lb1.setAlignment(Label.CENTER);
                lb1.setBounds(180,30,340,70);

                lb2 = new Label("Username:");
                lb2.setForeground(Color.BLACK);
```

```java
            lb2.setBounds(140,160,80,25);
            lb3 = new Label("Password:");
            lb3.setForeground(Color.BLACK);
            lb3.setBounds(140,200,80,25);

            t_username = new JTextField("");
            t_username.setBounds(220,160,250,25);
            t_password = new JPasswordField();
            t_password.setBounds(220,200,250,25);

            b1 = new JButton("Login");
            b1.setBounds(250,240,80,25);
            b2 = new JButton("Clear");
            b2.setBounds(360,240,80,25);


            b1.addActionListener(new ActionListener()
            {
    public void actionPerformed(ActionEvent e)
    {
            try
            {
                    String sql="select * from users where username=? and password=? ";
                    PST = con.prepareStatement(sql);
                    PST.setString(1, t_username.getText());
                    PST.setString(2, t_password.getText());
                    RS= PST.executeQuery();
                    if(RS.next())
                    {
                            JOptionPane.showMessageDialog(null,"You have successfully logged
in");

                            f.dispose();
                            mainFrame obj=new mainFrame();
                    }
                    else
                    {
                            JOptionPane.showMessageDialog(null,"Username or password is
incorrect");
                    }
            }
            catch(Exception e1)
            {
                    JOptionPane.showMessageDialog(null,e1);
            }
    }
    });

    b2.addActionListener(new ActionListener()
      {
```

```java
        public void actionPerformed(ActionEvent e2)
        {
                t_username.setText("");
                t_password.setText("");
        }
    });

    f.add(lb1);
            f.add(lb2);
            f.add(lb3);

            f.add(t_username);
            f.add(t_password);

            f.add(b1);
            f.add(b2);

            f.setLayout(null);
            f.setVisible(true);
            f.setSize(650,400);

    }
    public static void main(String[] args)
    {
            new Stock_Management();
    }
}
```
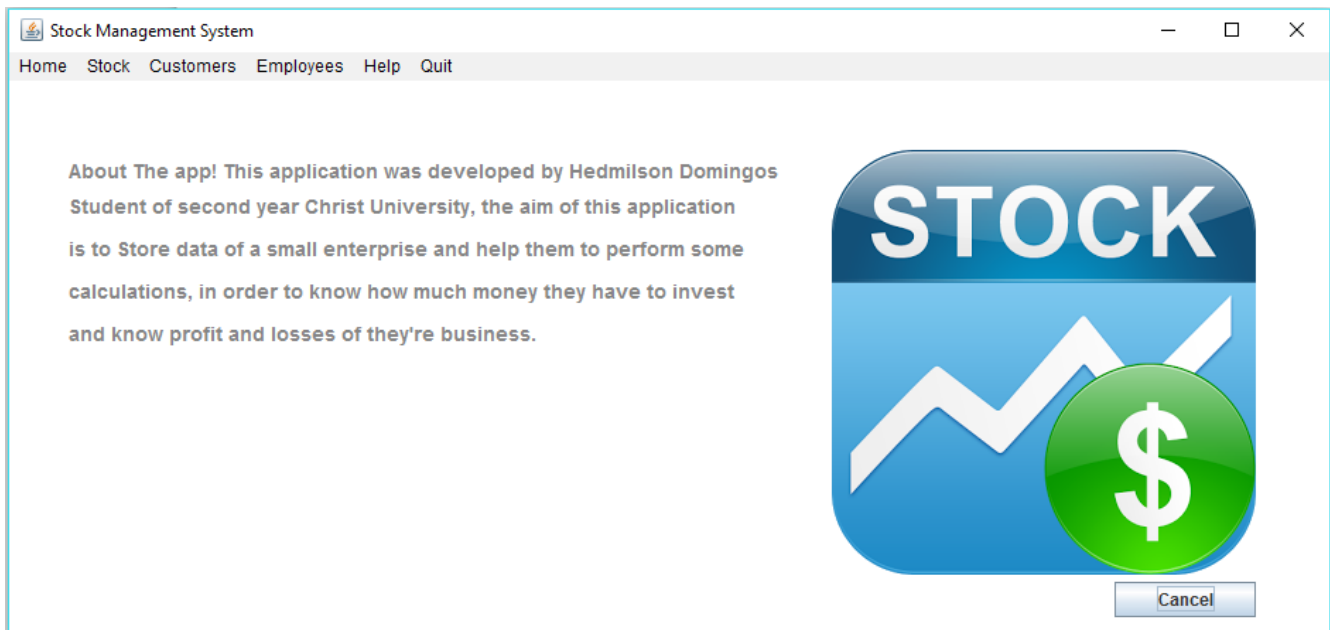
Home Frame

Code:

```java
import java.io.*;
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import javax.swing.JFrame;
import java.sql.*;
import java.sql.DriverManager;

public class mainFrame extends WindowAdapter
{
        Frame f1;
        JButton b1;
        JLabel lb_img1;
        JTextField t1,t2,t3,t4,t5,t6,t7;

        public mainFrame()
        {
                gui();
        }
        public void windowClosing(WindowEvent e)
        {
                f1.dispose();
                Stock_Management obj = new Stock_Management();
        }
        public void gui()
        {
                f1 = new Frame("Stock Management System");
                f1.addWindowListener(this);
                f1.setBackground(Color.WHITE);
```

```java
MenuBar mb = new MenuBar();
Menu menu = new Menu("Home");
Menu menu1 = new Menu("Stock");
Menu menu2 = new Menu("Customers");
Menu submenu_custm = new Menu("Sub Menu");
Menu menu3 = new Menu("Employees");
Menu submenu_emp = new Menu("Sub Menu");
Menu menu4 = new Menu("Help");
Menu menu5 = new Menu("Quit");

// Items for the first menu1
MenuItem i1 = new MenuItem("Register Product");
MenuItem i2 = new MenuItem("Search   Product");
MenuItem i3 = new MenuItem("Update   Product");
MenuItem i4 = new MenuItem("Delete   Product");

// Items for the Customers menu2
MenuItem i6 = new MenuItem("Register");
MenuItem i7 = new MenuItem("Edit");
MenuItem i8 = new MenuItem("View");

// Items for the Employess menu3
MenuItem i9 = new MenuItem("Register");
MenuItem i10 = new MenuItem("Edit");
MenuItem i11 = new MenuItem("View");

//Quit
MenuItem quit = new MenuItem("Close Application");
menu5.add(quit);
quit.addActionListener(new ActionListener()
        {
                public void actionPerformed(ActionEvent e)
                {
                        try
                        {
                                f1.dispose();
                        }
                        catch(Exception ex)
                        {
                                JOptionPane.showMessageDialog(null,ex);
                        }
                }
        });

i1.addActionListener(new ActionListener()
        {
                public void actionPerformed(ActionEvent e)
                {
```

```java
                    try
                    {
                            f1.dispose();
                            registerProduct regP = new registerProduct();
                    }
                    catch(Exception ex)
                    {
                            JOptionPane.showMessageDialog(null,ex);
                    }
            }
    });
i2.addActionListener(new ActionListener()
    {
            public void actionPerformed(ActionEvent e)
            {
                    try
                    {
                            f1.dispose();
                            searchProduct regP = new searchProduct();
                    }
                    catch(Exception ex)
                    {
                            JOptionPane.showMessageDialog(null,ex);
                    }
            }
    });
i3.addActionListener(new ActionListener()
    {
            public void actionPerformed(ActionEvent e)
            {
                    try
                    {
                            f1.dispose();
                            updateProduct regP = new updateProduct();
                    }
                    catch(Exception ex)
                    {
                            JOptionPane.showMessageDialog(null,ex);
                    }
            }
    });
i4.addActionListener(new ActionListener()
    {
            public void actionPerformed(ActionEvent e)
            {
                    try
                    {
                            f1.dispose();
                            deleteProduct regP = new deleteProduct();
```

```java
                                }
                                catch(Exception ex)
                                {
                                        JOptionPane.showMessageDialog(null,ex);
                                }
                        }
                });
        i6.addActionListener(new ActionListener()
                {
                        public void actionPerformed(ActionEvent e)
                        {
                                try
                                {
                                        f1.dispose();
                                        registerCustomer regP = new registerCustomer();
                                }
                                catch(Exception ex)
                                {
                                        JOptionPane.showMessageDialog(null,ex);
                                }
                        }
                });

        Font fn = new Font("Arial",Font.BOLD,14);
        JLabel lb1 = new JLabel("About The app! This application was developed by
Hedmilson Domingos");
        lb1.setForeground(Color.GRAY);
        lb1.setFont(fn);
        lb1.setBounds(50,100,510,30);
        JLabel lb2 = new JLabel("Student of second year Christ University, the aim of this
application");
        lb2.setForeground(Color.GRAY);
        lb2.setFont(fn);
        lb2.setBounds(50,130,500,20);
        JLabel lb3 = new JLabel("is to Store data of a small enterprise and help them to perform
some");
        lb3.setForeground(Color.GRAY);
        lb3.setFont(fn);
        lb3.setBounds(50,160,500,20);
        JLabel lb4 = new JLabel("calculations, in order to know how much money they have to
invest");
        lb4.setForeground(Color.GRAY);
        lb4.setFont(fn);
        lb4.setBounds(50,190,500,20);
        JLabel lb5 = new JLabel("and know profit and losses of they're business.");
        lb5.setForeground(Color.GRAY);
        lb5.setFont(fn);
        lb5.setBounds(50,220,500,20);
```

```java
                JLabel lb_img1 = new JLabel(new ImageIcon("A:/IV_semester/Java_lab/CIA
3/imgs/stock.png"));
        //lb_img1.setLayout(null);
                lb_img1.setBounds(590,100,300,300);

                b1 = new JButton("Cancel");
                b1.setBounds(790,405,100,25);
                f1.add(b1);
                b1.addActionListener(new ActionListener()
                        {
                                public void actionPerformed(ActionEvent e)
                                {
                                        f1.dispose();
                        Stock_Management obj=new Stock_Management();
                                }
                        });

                menu1.add(i1);
                menu1.add(i2);
                menu1.add(i3);
                menu1.add(i4);

                menu2.add(i6);
                menu2.add(i7);
                menu2.add(i8);

                menu3.add(i9);
                menu3.add(i10);
                menu3.add(i11);
                mb.add(menu);
                mb.add(menu1);
                mb.add(menu2);
                mb.add(menu3);
                mb.add(menu4);
                mb.add(menu5);

                f1.setMenuBar(mb);

                f1.add(lb_img1);

                f1.add(lb1);
                f1.add(lb2);
                f1.add(lb3);
                f1.add(lb4);
                f1.add(lb5);

                f1.setLayout(null);
                f1.setVisible(true);
```
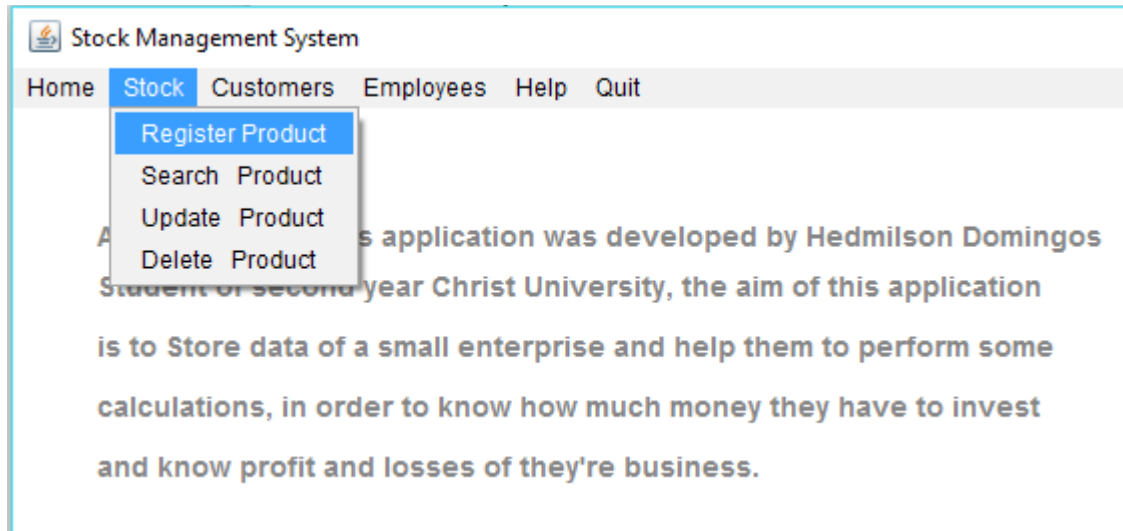
```
                f1.setSize(950,450);


        }
        public static void main(String[] args)
        {
                new mainFrame();
        }
}
```
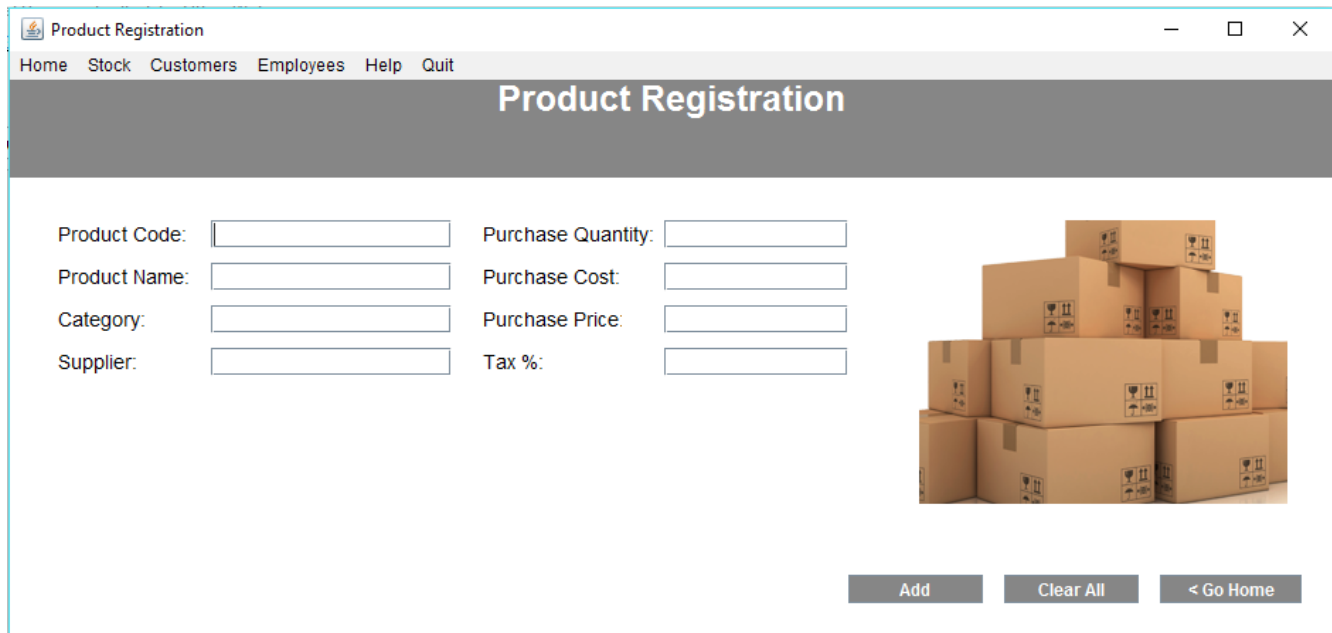
Menu Bar

In the home page will find a menu on top with the following options:
- Home
- Stock
  ◦ Register Product
  ◦ Search Product
  ◦ Update Product
  ◦ Delete Product
- Customers
  ◦ Register Customers
  ◦ Edit Customer's Information
  ◦ Remove Customer
- Employees
  ◦ Register Employees
  ◦ Edit Employee's Information
  ◦ Remove Employee
- Help
- Quit

Register Product Frame

Code:
```
import java.io.*;
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import javax.swing.JFrame;
import java.sql.*;
import java.sql.DriverManager;

public class registerCustomer extends WindowAdapter
{
        Frame f6;
        JButton bt1,bt2,bt3;
        Label lb1,lb2,lb3,lb4,lb5,lb5_1,lb6,lb7,lb8,lb9,lb_img1,lb_id;
        JPanel panel = new JPanel();
        Font fn,fn2;
        String gender;
        JTextField t1,t2,t3,t4,t4_1,t4_2,t5,t6,t7,t8,t_gender,t_id;
        Choice c;
        JRadioButton r1=new JRadioButton("Male");
        JRadioButton r2=new JRadioButton("Female");


        public registerCustomer()
        {
                gui();
        }
        public void windowClosing(WindowEvent e)
```

```java
{
        f6.dispose();
        mainFrame obj = new mainFrame();
}
public void gui()
{
        f6 = new Frame("Customer Registration");
        f6.addWindowListener(this);
        f6.setBackground(Color.WHITE);

        panel.setBackground(Color.GRAY);
        panel.setBounds(5,40,950,100);

        MenuBar mb = new MenuBar();
        Menu menu = new Menu("Home");
        Menu menu1 = new Menu("Stock");
        // Menu submenu = new Menu("Sub Menu");
        Menu menu2 = new Menu("Customers");
        Menu submenu_custm = new Menu("Sub Menu");
        Menu menu3 = new Menu("Employees");
        Menu submenu_emp = new Menu("Sub Menu");
        Menu menu4 = new Menu("Help");
        Menu menu5 = new Menu("Quit");

        //menu
        MenuItem gohome = new MenuItem("Go Home");
        menu.add(gohome);
        //Quit
        MenuItem quit = new MenuItem("Close Application");
        menu5.add(quit);

        // Items for the first menu1
        MenuItem i1 = new MenuItem("Register Product");
        MenuItem i2 = new MenuItem("Search   Product");
        MenuItem i3 = new MenuItem("Update   Product");
        MenuItem i4 = new MenuItem("Delete   Product");
        //MenuItem i5 = new MenuItem("Sub menu Item 2");

        // Items for the Customers menu2
        MenuItem i6 = new MenuItem("Register");
        MenuItem i7 = new MenuItem("Edit");
        MenuItem i8 = new MenuItem("View");

        // Items for the Employess menu3
        MenuItem i9 = new MenuItem("Register");
        MenuItem i10 = new MenuItem("Edit");
        MenuItem i11 = new MenuItem("View");

        gohome.addActionListener(new ActionListener()
```

```java
		{
			public void actionPerformed(ActionEvent e)
			{
				try
				{
					f6.dispose();
					mainFrame regP = new mainFrame();
				}
				catch(Exception ex)
				{
					JOptionPane.showMessageDialog(null,ex);
				}
			}
		});
	quit.addActionListener(new ActionListener()
		{
			public void actionPerformed(ActionEvent e)
			{
				try
				{
					f6.dispose();
				}
				catch(Exception ex)
				{
					JOptionPane.showMessageDialog(null,ex);
				}
			}
		});
	i1.addActionListener(new ActionListener()
		{
			public void actionPerformed(ActionEvent e)
			{
				try
				{
					f6.dispose();
					registerProduct regP = new registerProduct();
				}
				catch(Exception ex)
				{
					JOptionPane.showMessageDialog(null,ex);
				}
			}
		});
	i2.addActionListener(new ActionListener()
		{
			public void actionPerformed(ActionEvent e)
			{
				try
				{
```

```java
                              f6.dispose();
                              searchProduct regP = new searchProduct();
                    }
                    catch(Exception ex)
                    {
                              JOptionPane.showMessageDialog(null,ex);
                    }
          }
});
i3.addActionListener(new ActionListener()
          {
                    public void actionPerformed(ActionEvent e)
                    {
                              try
                              {
                                        f6.dispose();
                                        updateProduct regP = new updateProduct();
                              }
                              catch(Exception ex)
                              {
                                        JOptionPane.showMessageDialog(null,ex);
                              }
                    }
          });
i4.addActionListener(new ActionListener()
          {
                    public void actionPerformed(ActionEvent e)
                    {
                              try
                              {
                                        f6.dispose();
                                        deleteProduct regP = new deleteProduct();
                              }
                              catch(Exception ex)
                              {
                                        JOptionPane.showMessageDialog(null,ex);
                              }
                    }
          });
fn = new Font("Arial",Font.BOLD,25);
lb1 = new Label("Customer Registration");
lb1.setForeground(Color.white);
lb1.setFont(fn);
lb1.setBounds(10,40,80,25);

fn2 = new Font("Arial",Font.PLAIN,14);
lb2 = new Label("First Name");
lb2.setFont(fn2);
lb2.setBounds(40,150,100,20);
```

```java
lb2.setForeground(Color.BLACK);

lb3 = new Label("Last Name:");
lb3.setFont(fn2);
lb3.setBounds(40,180,100,20);
lb3.setForeground(Color.BLACK);

lb4 = new Label("Mobile no:");
lb4.setFont(fn2);
lb4.setBounds(40,210,100,20);
lb4.setForeground(Color.BLACK);

lb5 = new Label("DOB:");
lb5.setFont(fn2);
lb5.setBounds(40,240,100,20);
lb5.setForeground(Color.BLACK);

lb5_1 = new Label("Gender:");
lb5_1.setFont(fn2);
lb5_1.setBounds(40,270,100,20);
lb5_1.setForeground(Color.BLACK);


t1 = new JTextField("");
t1.setBounds(150,150,170,20);
t2 = new JTextField("");
t2.setBounds(150,180,170,20);
t3 = new JTextField("");
t3.setBounds(150,210,170,20);
t3.addKeyListener(new KeyAdapter()
        {
                public void keyTyped(KeyEvent e)
                {
                        char character = e.getKeyChar();
                        if (((character < '0') || (character > '9')) && (character != '\b'))
                        {
                                e.consume();
                        }
                        else if (t3.getText().length() >= 10)
                        {
                                e.consume();
                        }
                }
        });
t4 = new JTextField("");
t4.setBounds(150,240,40,20);
t4_1 = new JTextField("");
t4_1.setBounds(200,240,40,20);
t4_2 = new JTextField("");
```

```java
t4_2.setBounds(250,240,70,20);
t4.addKeyListener(new KeyAdapter()
        {
                public void keyTyped(KeyEvent e)
                {
                        char character = e.getKeyChar();
                        if (((character < '0') || (character > '9')) && (character != '\b'))
                        {
                                e.consume();
                        }
                        else if (t4.getText().length() >= 2)
                        {
                                e.consume();
                        }
                }
        });
t4_1.addKeyListener(new KeyAdapter()
        {
                public void keyTyped(KeyEvent e)
                {
                        char character = e.getKeyChar();
                        if (((character < '0') || (character > '9')) && (character != '\b'))
                        {
                                e.consume();
                        }
                        else if (t4_1.getText().length() >= 2)
                        {
                                e.consume();
                        }
                }
        });
t4_2.addKeyListener(new KeyAdapter()
        {
                public void keyTyped(KeyEvent e)
                {
                        char character = e.getKeyChar();
                        if (((character < '0') || (character > '9')) && (character != '\b'))
                        {
                                e.consume();
                        }
                        else if (t4_2.getText().length() >= 4)
                        {
                                e.consume();
                        }
                }
        });


r1.setBounds(150,270,60,20);
```

```
r1.setForeground(Color.BLACK);
r1.setBackground(Color.WHITE);
r2.setBounds(220,270,70,20);
r2.setForeground(Color.BLACK);
r2.setBackground(Color.WHITE);

ButtonGroup bg = new ButtonGroup();
bg.add(r1);
bg.add(r2);
f6.add(r1);
f6.add(r2);

lb6 = new Label("Address:");
lb6.setFont(fn2);
lb6.setBounds(340,150,125,20);
lb6.setForeground(Color.BLACK);

lb7 = new Label("City:");
lb7.setFont(fn2);
lb7.setBounds(340,180,100,20);
lb7.setForeground(Color.BLACK);

lb8 = new Label("Postal Code:");
lb8.setFont(fn2);
lb8.setBounds(340,210,100,20);
lb8.setForeground(Color.BLACK);

lb9 = new Label("Country:");
lb9.setFont(fn2);
lb9.setBounds(340,240,100,20);
lb9.setForeground(Color.BLACK);

lb_id = new Label("Customer ID:");
lb_id.setFont(fn2);
lb_id.setBounds(340,270,100,20);
lb_id.setForeground(Color.BLACK);

t5 = new JTextField("");
t5.setBounds(470,150,130,20);
t6 = new JTextField("");
t6.setBounds(470,180,130,20);
t7 = new JTextField("");
t7.setBounds(470,210,130,20);
t7.addKeyListener(new KeyAdapter()
{
        public void keyTyped(KeyEvent e)
        {
                char character = e.getKeyChar();
                if (((character < '0') || (character > '9')) && (character != '\b'))
```

```java
                    {
                        e.consume();
                    }
                }
            });
            /*t8 = new JTextField("");
            t8.setBounds(470,240,130,20);*/
            c = new Choice();
            c.setBounds(470,240,130,20);
            c.add("Afganistan");
            c.add("Angola");
            c.add("Brasil");
            c.add("India");
            c.add("USA");

            t_id = new JTextField("");
            t_id.setBounds(470,270,130,20);
            f6.add(c);

            bt1 = new JButton("Register");
            bt1.setBackground(Color.GRAY);
            bt1.setForeground(Color.WHITE);
            bt1.setBounds(600,400,95,20);

            bt2 = new JButton("Clear All");
            bt2.setBackground(Color.GRAY);
            bt2.setForeground(Color.WHITE);
            bt2.setBounds(710,400,95,20);

            bt3 = new JButton("< Go Home");
            bt3.setBackground(Color.GRAY);
            bt3.setForeground(Color.WHITE);
            bt3.setBounds(820,400,100,20);

            JLabel lb_img1 = new JLabel(new ImageIcon("A:/IV_semester/Java_lab/CIA
3/imgs/solutions.png"));
        //lb_img1.setLayout(null);
            lb_img1.setBounds(650,150,260,200);
        //lb_img1.setSize(650,400);
            t_gender = new JTextField("");
            bt1.addActionListener(new ActionListener()
                {
                    public void actionPerformed(ActionEvent e2)
                    {
                        try
                        {
                            if (r1.isSelected())
                            {
                                t_gender.setText("Male");
```

```java
                                        }
                                        else if (r2.isSelected())
                                        {
                                                t_gender.setText("Female");
                                        }
                                        theQuery("insert into customer (customer_id ,first_name,
last_name, mobile_no, day, month, year, gender, address, city,postal_code,country) values
('"+t_id.getText()+"','"+t1.getText()+"','"+t2.getText()+"','"+t3.getText()+"','"+t4.getText()
+"','"+t4_1.getText()+"','"+t4_2.getText()+"','"+t_gender.getText()+"','"+t5.getText()+"','"+t6.getText()
+"','"+t7.getText()+"','"+c.getSelectedItem()+"') ");
                                                JOptionPane.showMessageDialog(null," Data successfully
saved...\n Thank you very much...");
                                }
                                catch(Exception ex)
                                {
                                        JOptionPane.showMessageDialog(null,ex);
                                }
                        }
                });

        bt2.addActionListener(new ActionListener()
                {
                        public void actionPerformed(ActionEvent e2)
                        {
                                try
                                {
                                        t1.setText("");
                                        t2.setText("");
                                        t3.setText("");
                                        t4.setText("");
                                        t4_1.setText("");
                                        t4_2.setText("");
                                        t5.setText("");
                                        t6.setText("");
                                        t7.setText("");
                                        t_id.setText("");
                                }
                                catch(Exception ex)
                                {
                                        JOptionPane.showMessageDialog(null,ex);
                                }
                        }
                });

        bt3.addActionListener(new ActionListener()
                {
                        public void actionPerformed(ActionEvent e3)
                        {
                                try
```

```java
                    {
                            f6.dispose();
                            mainFrame obj1 = new mainFrame();
                    }
                    catch(Exception ex)
                    {
                            JOptionPane.showMessageDialog(null,ex);
                    }
            }
      });

menu1.add(i1);
menu1.add(i2);
menu1.add(i3);
menu1.add(i4);
menu2.add(i6);
menu2.add(i7);
menu2.add(i8);
menu3.add(i9);
menu3.add(i10);
menu3.add(i11);

mb.add(menu);
mb.add(menu1);
mb.add(menu2);
mb.add(menu3);
mb.add(menu4);
mb.add(menu5);
f6.setMenuBar(mb);
panel.add(lb1);
f6.add(panel);
f6.add(lb2);
f6.add(lb3);
f6.add(lb4);
f6.add(lb4);
f6.add(lb4);
f6.add(lb5);
f6.add(lb5_1);
f6.add(lb6);
f6.add(lb7);
f6.add(lb8);
f6.add(lb9);
f6.add(lb_id);

f6.add(t1);
f6.add(t2);
f6.add(t3);
f6.add(t4);
f6.add(t4_1);
```

```java
                f6.add(t4_2);
                f6.add(t5);
                f6.add(t6);
                f6.add(t7);
                f6.add(t_id);

                f6.add(bt1);
                f6.add(bt2);
                f6.add(bt3);

                f6.add(lb_img1);

                f6.setLayout(null);
                f6.setVisible(true);
                f6.setSize(950,450);
        }
                // SETTING UP THE CONNECTION
        public void theQuery(String query)
        {
                Connection con = null;
                Statement st = null;
                try
                {
                        con =
DriverManager.getConnection("jdbc:mysql://localhost/sonoo","root","heddyshost");
                        st = con.createStatement();
                        st.executeUpdate(query);
                }
                catch(Exception ex)
                {
                        JOptionPane.showMessageDialog(null, ex.getMessage());
                }
        }
        public static void main(String[] args)
        {
                new registerCustomer();
        }
}
```

Product Will get Stored in Database.

			p_code ▲ 1	p_name	category	supplier	quantity	cost	price	tax	profit_before_tax	profit_after_tax
☐	✏ Edit	⧉ Copy ⊝ Delete	1001	CRF	Motobike	Honda	10	11000	15000	11	40000	35600
☐	✏ Edit	⧉ Copy ⊝ Delete	1003	Iphone 6s	Cell phone	Apple	50	600	700	10	5000	4500
☐	✏ Edit	⧉ Copy ⊝ Delete	1004	Maria Light	Biscuit	Sunfast	10000	7	10	2	30000	29400
☐	✏ Edit	⧉ Copy ⊝ Delete	1005	Iphone 7	Cell phone	Apple	5	60000	70000	10	50000	45000

It will provide you the profit before and after tax rate.

Search Frame
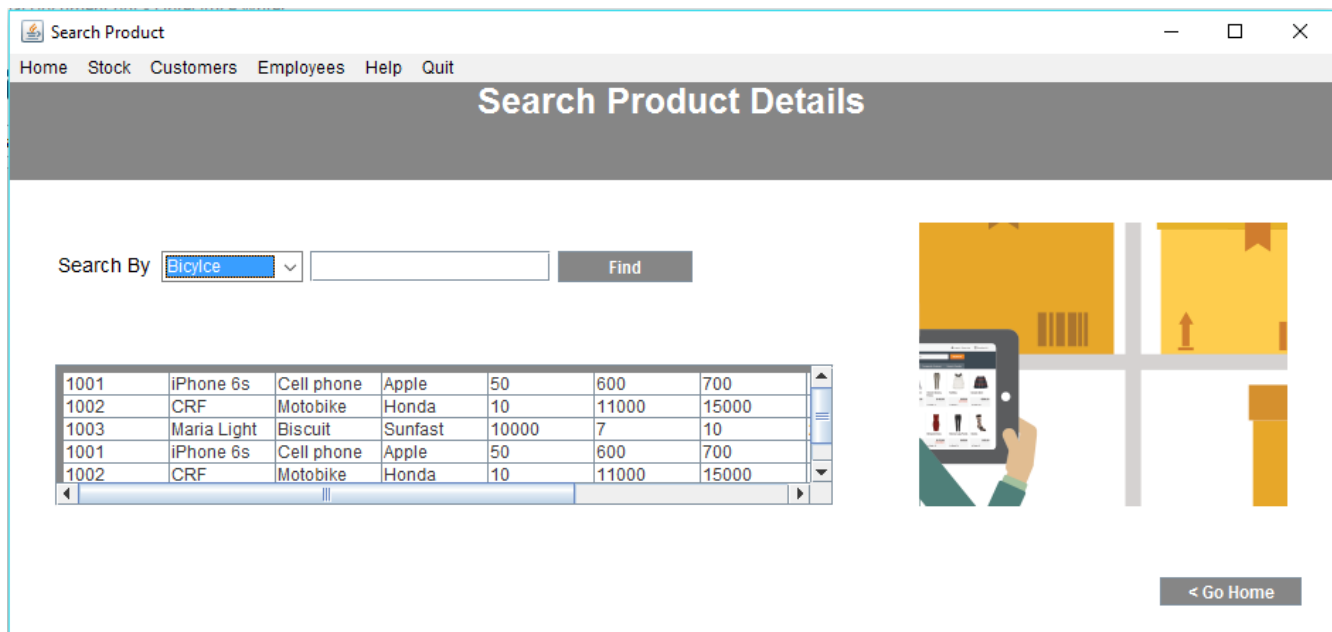
Code:

```java
import java.io.*;
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import javax.swing.event.*;
import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.JScrollPane;
import java.sql.*;
import java.sql.DriverManager;
import javax.swing.table.DefaultTableModel;


public class searchProduct extends WindowAdapter
{
        Frame f3;
        JButton bt1,bt2,bt3;
        Label lb1,lb2,lb3,lb4,lb5,lb6,lb7,lb8,lb9,lb_img1;
        JPanel panel,panel2;
        Font fn,fn2;
        Choice c;
        JScrollPane scroll = new JScrollPane();

        JTable jTable;

        Connection con = null;
        ResultSet rs = null;
        PreparedStatement pst = null;
```

```java
JTextField t1,t2,t3,t4,t5,t6,t7,t8;

public class ScrollTask implements ChangeListener
{
        public void stateChanged(ChangeEvent e)
        {
                f3.revalidate();
                f3.repaint();
        }
}

String host = "jdbc:mysql://localhost/sonoo";
String username = "root";
String password = "heddyshost";
Statement st = null;

public searchProduct()
{
        gui();
}
public void windowClosing(WindowEvent e)
{
        f3.dispose();
        mainFrame obj = new mainFrame();
}
public void gui()
{
        f3 = new Frame("Search Product");
        f3.addWindowListener(this);
        f3.setBackground(Color.WHITE);

        panel = new JPanel();
        panel.setBackground(Color.GRAY);
        panel.setBounds(5,40,950,80);

        // Code for JTable
        String[] columns = {"P. Code", "P. Name", "Category","Supplier","Quantity", "Cost",
        "Price","Tax","PBT","PAT"};
        String[][] data = { {"1001","iPhone 6s", "Cell phone","Apple","50",
        "600","700","10","5000", "4500"},
        {"1002","CRF", "Motobike","Honda","10",
        "11000","15000","11","40000", "35600"},
        {"1003","Maria Light", "Biscuit","Sunfast","10000", "7","10","2","30000", "29400"},
        {"1001","iPhone 6s", "Cell phone","Apple","50", "600","700","10","5000", "4500"},
        {"1002","CRF", "Motobike","Honda","10", "11000","15000","11","40000", "35600"},
        {"1003","Maria Light", "Biscuit","Sunfast","10000", "7","10","2","30000", "29400"}};
        jTable = new JTable(data,columns);
        jTable.setBounds(40,250,400,100);
```

```java
panel2 = new JPanel();
panel2.setBackground(Color.GRAY);
panel2.setBounds(40,250,600,100);
panel2.add(jTable);
panel2.setLayout(new FlowLayout(FlowLayout.LEFT));
scroll.setVerticalScrollBarPolicy(JScrollPane.VERTICAL_SCROLLBAR_ALWAYS);
scroll.setHorizontalScrollBarPolicy(JScrollPane.HORIZONTAL_SCROLLBAR_ALWAYS);
scroll.setViewportView(panel2);
scroll.setPreferredSize(new Dimension(600,90));
scroll.setBounds(40,250,550,100);
f3.add(scroll);

MenuBar mb = new MenuBar();
Menu menu = new Menu("Home");
Menu menu1 = new Menu("Stock");
// Menu submenu = new Menu("Sub Menu");
Menu menu2 = new Menu("Customers");
Menu submenu_custm = new Menu("Sub Menu");
Menu menu3 = new Menu("Employees");
Menu submenu_emp = new Menu("Sub Menu");
Menu menu4 = new Menu("Help");
Menu menu5 = new Menu("Quit");

//menu
MenuItem gohome = new MenuItem("Go Home");
menu.add(gohome);

// Items for the first menu1
MenuItem i1 = new MenuItem("Register Product");
MenuItem i2 = new MenuItem("Search   Product");
MenuItem i3 = new MenuItem("Update   Product");
MenuItem i4 = new MenuItem("Delete   Product");
//MenuItem i5 = new MenuItem("Sub menu Item 2");

// Items for the Customers menu2
MenuItem i6 = new MenuItem("Register");
MenuItem i7 = new MenuItem("Edit");
MenuItem i8 = new MenuItem("View");

// Items for the Employess menu3
MenuItem i9 = new MenuItem("Register");
MenuItem i10 = new MenuItem("Edit");
MenuItem i11 = new MenuItem("View");
//Quit
MenuItem quit = new MenuItem("Close Application");
menu5.add(quit);
quit.addActionListener(new ActionListener()
        {
```

```java
                    public void actionPerformed(ActionEvent e)
                    {
                            try
                            {
                                    f3.dispose();
                            }
                            catch(Exception ex)
                            {
                                    JOptionPane.showMessageDialog(null,ex);
                            }
                    }
            });

        gohome.addActionListener(new ActionListener()
            {
                    public void actionPerformed(ActionEvent e)
                    {
                            try
                            {
                                    f3.dispose();
                                    mainFrame main = new mainFrame();
                            }
                            catch(Exception ex)
                            {
                                    JOptionPane.showMessageDialog(null,ex);
                            }
                    }
            });

        i1.addActionListener(new ActionListener()
            {
                    public void actionPerformed(ActionEvent e)
                    {
                            try
                            {
                                    f3.dispose();
                                    registerProduct regP = new registerProduct();
                            }
                            catch(Exception ex)
                            {
                                    JOptionPane.showMessageDialog(null,ex);
                            }
                    }
            });
        i3.addActionListener(new ActionListener()
            {
                    public void actionPerformed(ActionEvent e)
                    {
                            try
```

```java
                {
                        f3.dispose();
                        updateProduct regP = new updateProduct();
                }
                catch(Exception ex)
                {
                        JOptionPane.showMessageDialog(null,ex);
                }
        }
});
i4.addActionListener(new ActionListener()
        {
                public void actionPerformed(ActionEvent e)
                {
                        try
                        {
                                f3.dispose();
                                deleteProduct regP = new deleteProduct();
                        }
                        catch(Exception ex)
                        {
                                JOptionPane.showMessageDialog(null,ex);
                        }
                }
        });
i6.addActionListener(new ActionListener()
        {
                public void actionPerformed(ActionEvent e)
                {
                        try
                        {
                                f3.dispose();
                                registerCustomer regP = new registerCustomer();
                        }
                        catch(Exception ex)
                        {
                                JOptionPane.showMessageDialog(null,ex);
                        }
                }
        });
fn = new Font("Arial",Font.BOLD,25);
lb1 = new Label("Search Product Details");
lb1.setForeground(Color.white);
lb1.setFont(fn);
lb1.setBounds(10,40,80,25);

fn2 = new Font("Arial",Font.PLAIN,14);
lb2 = new Label("Search By");
lb2.setFont(fn2);
```

```java
            lb2.setBounds(40,170,70,20);
            lb2.setForeground(Color.black);

            c = new Choice();
            c.setBounds(115,170,100,20);
            c.add("Bicylce");
            c.add("Motobike");

            t1 = new JTextField("");
            t1.setBounds(220,170,170,22);

            bt1 = new JButton("Find");
            bt1.setBackground(Color.GRAY);
            bt1.setForeground(Color.WHITE);
            bt1.setBounds(395,170,95,22);

            bt3 = new JButton("< Go Home");
            bt3.setBackground(Color.GRAY);
            bt3.setForeground(Color.WHITE);
            bt3.setBounds(820,400,100,20);

            JLabel lb_img1 = new JLabel(new ImageIcon("A:/IV_semester/Java_lab/CIA
3/imgs/management3.png"));
            lb_img1.setBounds(650,150,260,200);

            bt1.addActionListener(new ActionListener()
                {
                        public void actionPerformed(ActionEvent e2)
                        {
                                try
                                {
                                        JOptionPane.showMessageDialog(null,"Search option not
available at the moment.\nSorry for the inconvenience.!");
                                }
                                catch(Exception ex)
                                {
                                        JOptionPane.showMessageDialog(null,ex);
                                }
                        }
                });
            bt3.addActionListener(new ActionListener()
                {
                        public void actionPerformed(ActionEvent e3)
                        {
                                try
                                {
                                        f3.dispose();
                                        mainFrame obj1 = new mainFrame();
                                }
```

```java
                        catch(Exception ex)
                        {
                                JOptionPane.showMessageDialog(null,ex);
                        }
                }
        });


        menu1.add(i1);
        menu1.add(i2);
        menu1.add(i3);
        menu1.add(i4);

        menu2.add(i6);
        menu2.add(i7);
        menu2.add(i8);
        menu3.add(i9);
        menu3.add(i10);
        menu3.add(i11);
        mb.add(menu);
        mb.add(menu1);
        mb.add(menu2);
        mb.add(menu3);
        mb.add(menu4);
        mb.add(menu5);
        f3.setMenuBar(mb);
        panel.add(lb1);
        f3.add(panel);
        f3.add(lb2);

        f3.add(t1);

        f3.add(bt1);
        f3.add(bt3);

        f3.add(lb_img1);

        f3.add(c);

        f3.setLayout(null);
        f3.setVisible(true);
        f3.setSize(950,450);
    }
    public static void main(String[] args)
    {
        new searchProduct();
    }
}
```

Update Frame

Code:

```java
import java.io.*;
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import javax.swing.JFrame;
import java.sql.*;
import java.sql.DriverManager;

class stock_update
{
        Connection conn = null;
        public static Connection ConnecrDb()
        {
                try
                {
                        Class.forName("com.mysql.jdbc.Driver");
                        Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost/sonoo","root","heddyshost");
                        return conn;
                }
                catch(Exception e)
                {
                        JOptionPane.showMessageDialog(null,e);
                        return null;
                }
        }
}

public class updateProduct extends WindowAdapter
```

```java
{
        Frame f4;
        JButton bt1,bt2,bt3,bt_ser;
        Label lb1,lb2,lb3,lb4,lb5,lb6,lb7,lb8,lb9,lb_img1,lb_ser;
        //JLabel lb_img2;
        JPanel panel = new JPanel();
        Font fn,fn2;

        JTextField t1,t2,t3,t4,t5,t6,t7,t8,t_ser;
        JRadioButton r1=new JRadioButton("Male");
        JRadioButton r2=new JRadioButton("Female");

        Connection conn = null;
        PreparedStatement pst = null;;
        ResultSet rs = null;

        int check = 0;

        public updateProduct()
        {
                gui();
                conn=stock_update.ConnecrDb();
        }
        public void windowClosing(WindowEvent e)
        {
                f4.dispose();
                mainFrame obj = new mainFrame();
        }
        public void gui()
        {
                f4 = new Frame("Update Product Information");
                f4.addWindowListener(this);
                f4.setBackground(Color.WHITE);

                panel.setBackground(Color.GRAY);
                panel.setBounds(5,40,950,80);

                MenuBar mb = new MenuBar();
                Menu menu = new Menu("Home");
                Menu menu1 = new Menu("Stock");
                // Menu submenu = new Menu("Sub Menu");
                Menu menu2 = new Menu("Customers");
                Menu submenu_custm = new Menu("Sub Menu");
                Menu menu3 = new Menu("Employees");
                Menu submenu_emp = new Menu("Sub Menu");
                Menu menu4 = new Menu("Help");
                Menu menu5 = new Menu("Quit");

                //menu
```

```java
MenuItem gohome = new MenuItem("Go Home");
menu.add(gohome);

// Items for the first menu1
MenuItem i1 = new MenuItem("Register Product");
MenuItem i2 = new MenuItem("Search   Product");
MenuItem i3 = new MenuItem("Update   Product");
MenuItem i4 = new MenuItem("Delete   Product");
//MenuItem i5 = new MenuItem("Sub menu Item 2");

// Items for the Customers menu2
MenuItem i6 = new MenuItem("Register");
MenuItem i7 = new MenuItem("Edit");
MenuItem i8 = new MenuItem("View");

// Items for the Employess menu3
MenuItem i9 = new MenuItem("Register");
MenuItem i10 = new MenuItem("Edit");
MenuItem i11 = new MenuItem("View");

//Quit
MenuItem quit = new MenuItem("Close Application");
menu5.add(quit);
quit.addActionListener(new ActionListener()
        {
                public void actionPerformed(ActionEvent e)
                {
                        try
                        {
                                f4.dispose();
                        }
                        catch(Exception ex)
                        {
                                JOptionPane.showMessageDialog(null,ex);
                        }
                }
        });

gohome.addActionListener(new ActionListener()
        {
                public void actionPerformed(ActionEvent e)
                {
                        try
                        {
                                f4.dispose();
                                mainFrame regP = new mainFrame();
                        }
                        catch(Exception ex)
                        {
```

```
                                    JOptionPane.showMessageDialog(null,ex);
                            }
                    }
            });

    i1.addActionListener(new ActionListener()
            {
                    public void actionPerformed(ActionEvent e)
                    {
                            try
                            {
                                    f4.dispose();
                                    registerProduct regP = new registerProduct();
                            }
                            catch(Exception ex)
                            {
                                    JOptionPane.showMessageDialog(null,ex);
                            }
                    }
            });
    i2.addActionListener(new ActionListener()
            {
                    public void actionPerformed(ActionEvent e)
                    {
                            try
                            {
                                    f4.dispose();
                                    searchProduct regP = new searchProduct();
                            }
                            catch(Exception ex)
                            {
                                    JOptionPane.showMessageDialog(null,ex);
                            }
                    }
            });
    i4.addActionListener(new ActionListener()
            {
                    public void actionPerformed(ActionEvent e)
                    {
                            try
                            {
                                    f4.dispose();
                                    deleteProduct regP = new deleteProduct();
                            }
                            catch(Exception ex)
                            {
                                    JOptionPane.showMessageDialog(null,ex);
                            }
                    }
```

```java
            });
i6.addActionListener(new ActionListener()
        {
                public void actionPerformed(ActionEvent e)
                {
                        try
                        {
                                f4.dispose();
                                registerCustomer regP = new registerCustomer();
                        }
                        catch(Exception ex)
                        {
                                JOptionPane.showMessageDialog(null,ex);
                        }
                }
        });
fn = new Font("Arial",Font.BOLD,25);
lb1 = new Label("Update Product Information");
lb1.setForeground(Color.WHITE);
lb1.setFont(fn);
lb1.setBounds(10,40,80,25);

fn2 = new Font("Arial",Font.PLAIN,14);
lb_ser = new Label("Choose Product:");
lb_ser.setFont(fn2);
lb_ser.setBounds(40,170,110,20);
lb_ser.setForeground(Color.BLACK);

t_ser = new JTextField("");
t_ser.setBounds(150,170,170,22);

bt_ser = new JButton("Find Product");
bt_ser.setBackground(Color.GRAY);
bt_ser.setBounds(340,170,110,22);

lb2 = new Label("Product Code:");
lb2.setFont(fn2);
lb2.setBounds(40,200,100,20);
lb2.setForeground(Color.BLACK);

lb3 = new Label("Product Name:");
lb3.setFont(fn2);
lb3.setBounds(40,230,100,20);
lb3.setForeground(Color.BLACK);

lb4 = new Label("Category:");
lb4.setFont(fn2);
lb4.setBounds(40,260,100,20);
lb4.setForeground(Color.BLACK);
```

```java
lb5 = new Label("Supplier:");
lb5.setFont(fn2);
lb5.setBounds(40,290,100,20);
lb5.setForeground(Color.BLACK);

t1 = new JTextField("");
t1.setBounds(150,200,170,20);
t2 = new JTextField("");
t2.setBounds(150,230,170,20);
t3 = new JTextField("");
t3.setBounds(150,260,170,20);
t4 = new JTextField("");
t4.setBounds(150,290,170,20);


lb6 = new Label("Purchase Quantity:");
lb6.setFont(fn2);
lb6.setBounds(340,200,125,20);
lb6.setForeground(Color.BLACK);

lb7 = new Label("Purchase Cost:");
lb7.setFont(fn2);
lb7.setBounds(340,230,100,20);
lb7.setForeground(Color.BLACK);

lb8 = new Label("Purchase Price:");
lb8.setFont(fn2);
lb8.setBounds(340,260,100,20);
lb8.setForeground(Color.BLACK);

lb9 = new Label("Tax %:");
lb9.setFont(fn2);
lb9.setBounds(340,290,100,20);
lb9.setForeground(Color.BLACK);

t5 = new JTextField("");
t5.setBounds(470,200,130,20);
t6 = new JTextField("");
t6.setBounds(470,230,130,20);
t7 = new JTextField("");
t7.setBounds(470,260,130,20);
t8 = new JTextField("");
t8.setBounds(470,290,130,20);

t_ser.addKeyListener(new KeyAdapter()
        {
                public void keyTyped(KeyEvent e)
                {
```

```java
                char character = e.getKeyChar();
                if ((character < '0') || (character > '9'))
                {
                        e.consume();
                }
        }
});
t1.addKeyListener(new KeyAdapter()
{
        public void keyTyped(KeyEvent e)
        {
                char character = e.getKeyChar();
                if ((character < '0') || (character > '9'))
                {
                        e.consume();
                }
        }
});
t5.addKeyListener(new KeyAdapter()
{
        public void keyTyped(KeyEvent e)
        {
                char character = e.getKeyChar();
                if ((character < '0') || (character > '9'))
                {
                        e.consume();
                }
        }
});
t6.addKeyListener(new KeyAdapter()
{
        public void keyTyped(KeyEvent e)
        {
                char character = e.getKeyChar();
                if ((character < '0') || (character > '9'))
                {
                        e.consume();
                }
        }
});
t7.addKeyListener(new KeyAdapter()
{
        public void keyTyped(KeyEvent e)
        {
                char character = e.getKeyChar();
                if ((character < '0') || (character > '9'))
                {
                        e.consume();
                }
```

```
                        }
        });
t8.addKeyListener(new KeyAdapter()
        {
                public void keyTyped(KeyEvent e)
                {
                        char character = e.getKeyChar();
                        if ((character < '0') || (character > '9'))
                        {
                                e.consume();
                        }
                }
        });


bt1 = new JButton("Update");
bt1.setBackground(Color.GRAY);
bt1.setForeground(Color.WHITE);
bt1.setBounds(600,400,95,20);

bt2 = new JButton("Clear All");
bt2.setBackground(Color.GRAY);
bt2.setForeground(Color.WHITE);
bt2.setBounds(710,400,95,20);

bt3 = new JButton("< Go Home");
bt3.setBackground(Color.GRAY);
bt3.setForeground(Color.WHITE);
bt3.setBounds(820,400,100,20);

JLabel lb_img1 = new JLabel(new ImageIcon("A:/IV_semester/Java_lab/CIA
3/imgs/inventory-management.png"));
lb_img1.setBounds(650,150,260,200);
bt_ser.addActionListener(new ActionListener()
        {
                public void actionPerformed(ActionEvent e2)
                {
                        try
                        {
                                String sql = "select p_code from product where p_code=?";
                                pst = conn.prepareStatement(sql);
                pst.setString(1, t_ser.getText());
                rs= pst.executeQuery();
                if(rs.next())
                {
                        pst = conn.prepareStatement("select
                        p_code,p_name,category,supplier,quantity,cost,price,tax from
                        product where p_code='"+t_ser.getText()+"'");
                        rs = pst.executeQuery();
```

```java
                                while(rs.next())
                                {
                                        t1.setText(rs.getString("p_code"));
                                        t2.setText(rs.getString("p_name"));
                                        t3.setText(rs.getString("category"));
                                        t4.setText(rs.getString("supplier"));
                                        t5.setText(rs.getString("quantity"));
                                        t6.setText(rs.getString("cost"));
                                        t7.setText(rs.getString("price"));
                                        t8.setText(rs.getString("tax"));
                                        check=1;
                                }
                }
                else
                {
                        JOptionPane.showMessageDialog(null,"Product '"+t_ser.getText()
                        +"' is not available in our database!");
                }
                        }
                        catch(Exception e3)
                        {
                                JOptionPane.showMessageDialog(null, e3);
                        }
                }
        });

        bt1.addActionListener(new ActionListener()
                {
                        public void actionPerformed(ActionEvent e2)
                        {
                                Double cal_tax, product_cost, product_price, profit_before_tax,
                                profit_after_tax, total_amount_to_spend, total_amount_to_Gain;
                                int tax,quantity,code;
                                if (check==1)
                                {
                                        try
                                        {
                                                product_cost =
                                                Double.parseDouble(t6.getText());
                                                quantity = Integer.parseInt(t5.getText());
                                                product_price =
                                                Double.parseDouble(t7.getText());
                                                tax = Integer.parseInt(t8.getText());

                                                total_amount_to_spend = product_cost *
                                                quantity;
                                                total_amount_to_Gain = product_price *
                                                quantity;
```

```java
                                                profit_before_tax = total_amount_to_Gain -
                                                total_amount_to_spend;

                                                cal_tax = (profit_before_tax*tax)/100;

                                                profit_after_tax = profit_before_tax -
                                                cal_tax;
                                                theQuery("update product set p_code =
'"+t1.getText()+"', p_name = '"+t2.getText()+"', category = '"+t3.getText()+"',supplier = '"+t4.getText()
+"', quantity = '"+t5.getText()+"', cost = '"+t6.getText()+"', price = '"+t7.getText()+"', tax =
'"+t8.getText()+"', profit_before_tax='"+profit_before_tax+"', profit_after_tax='"+profit_after_tax+"'
where p_code='"+t_ser.getText()+"' ");

        JOptionPane.showMessageDialog(null,"Product Information got updated
        successfully!\n\nThank you.");
                                                check=0;
                                        }
                                        catch(Exception ex)
                                        {
                                                JOptionPane.showMessageDialog(null,ex);
                                        }
                                }
                                else
                                {
                                        JOptionPane.showMessageDialog(null,"You need to
                                        reteive the Information\nby clicking in the button 'Find
                                        Product'.\nThank you. ");
                                }
                        }
                });
        bt2.addActionListener(new ActionListener()
                {
                        public void actionPerformed(ActionEvent e2)
                        {
                                try
                                {
                                        t_ser.setText("");
                                        t1.setText("");
                                        t2.setText("");
                                        t3.setText("");
                                        t4.setText("");

                                        t5.setText("");
                                        t6.setText("");
                                        t7.setText("");
                                        t8.setText("");
                                }
                                catch(Exception ex)
```

```java
				{
						JOptionPane.showMessageDialog(null,ex);
				}
			}
		});

		bt3.addActionListener(new ActionListener()
		{
				public void actionPerformed(ActionEvent e3)
				{
						try
						{
								f4.dispose();
								mainFrame obj1 = new mainFrame();
						}
						catch(Exception ex)
						{
								JOptionPane.showMessageDialog(null,ex);
						}
				}
		});

	menu1.add(i1);
	menu1.add(i2);
	menu1.add(i3);
	menu1.add(i4);
	menu2.add(i6);
	menu2.add(i7);
	menu2.add(i8);
	menu3.add(i9);
	menu3.add(i10);
	menu3.add(i11);

	mb.add(menu);
	mb.add(menu1);
	mb.add(menu2);
	mb.add(menu3);
	mb.add(menu4);
	mb.add(menu5);

	f4.setMenuBar(mb);
	panel.add(lb1);
	f4.add(panel);

	f4.add(lb2);
	f4.add(lb3);
	f4.add(lb4);
	f4.add(lb5);
	f4.add(lb6);
```

```java
        f4.add(lb7);
        f4.add(lb8);
        f4.add(lb9);

        f4.add(t1);
        f4.add(t2);
        f4.add(t3);
        f4.add(t4);
        f4.add(t5);
        f4.add(t6);
        f4.add(t7);
        f4.add(t8);

        f4.add(bt1);
        f4.add(bt2);
        f4.add(bt3);

        f4.add(lb_img1);

        f4.add(lb_ser);
        f4.add(t_ser);
        f4.add(bt_ser);

        f4.setLayout(null);
        f4.setVisible(true);
        f4.setSize(950,450);
    }
        // SETTING UP THE CONNECTION
    public void theQuery(String query)
    {
        Connection con = null;
        Statement st = null;
        try
        {
            con =
        DriverManager.getConnection("jdbc:mysql://localhost/sonoo","root","heddyshost");
            st = con.createStatement();
            st.executeUpdate(query);
        }
        catch(Exception ex)
        {
            JOptionPane.showMessageDialog(null, ex.getMessage());
        }
    }
    public static void main(String[] args)
    {
        new updateProduct();
    }
}
```
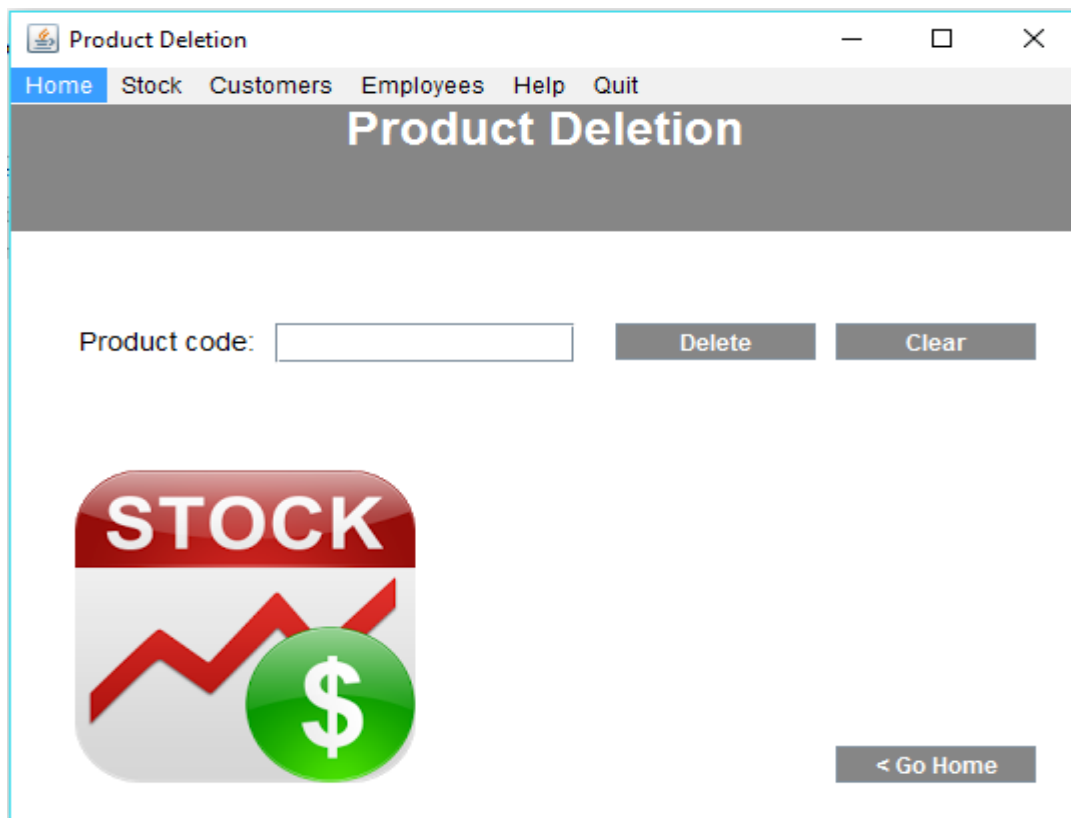
Deletion Frame

Code:
```java
import java.io.*;
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import javax.swing.JFrame;
import java.sql.*;
import java.sql.DriverManager;

class connection_class
{
        Connection con = null;
        public static Connection ConnecrDb()
        {
                try
                {
                        Class.forName("com.mysql.jdbc.Driver");
                        Connection con =
DriverManager.getConnection("jdbc:mysql://localhost/sonoo","root","heddyshost");
                        return con;
                }
                catch(Exception e)
                {
                        JOptionPane.showMessageDialog(null,e);
```

```java
                        return null;
                }
        }
}
public class deleteProduct extends WindowAdapter
{
        Connection con = null;
        ResultSet rs = null;
        PreparedStatement pst = null;

        Frame f5;
        JButton bt1,bt2,bt3;
        Label lb1,lb2,lb3,lb4,lb5,lb6,lb7,lb8,lb9,lb_img1;
        JPanel panel = new JPanel();
        Font fn,fn2;
        Choice c;

        JTextField t1;

        public deleteProduct()
        {
                gui();
                con = connection_class.ConnecrDb();
        }
        public void windowClosing(WindowEvent e)
        {
                f5.dispose();
                mainFrame obj = new mainFrame();
        }
        public void gui()
        {
                f5 = new Frame("Product Deletion");
                f5.addWindowListener(this);
                f5.setBackground(Color.WHITE);

                panel.setBackground(Color.GRAY);
                panel.setBounds(5,40,550,80);

                MenuBar mb = new MenuBar();
                Menu menu = new Menu("Home");
                Menu menu1 = new Menu("Stock");
                // Menu submenu = new Menu("Sub Menu");
                Menu menu2 = new Menu("Customers");
                Menu submenu_custm = new Menu("Sub Menu");
                Menu menu3 = new Menu("Employees");
                Menu submenu_emp = new Menu("Sub Menu");
                Menu menu4 = new Menu("Help");
                Menu menu5 = new Menu("Quit");
```

```java
//Manu
MenuItem gohome = new MenuItem("Go Home");

// Items for the first menu1
MenuItem i1 = new MenuItem("Register Product");
MenuItem i2 = new MenuItem("Search   Product");
MenuItem i3 = new MenuItem("Update   Product");
MenuItem i4 = new MenuItem("Delete   Product");
//MenuItem i5 = new MenuItem("Sub menu Item 2");

// Items for the Customers menu2
MenuItem i6 = new MenuItem("Register");
MenuItem i7 = new MenuItem("Edit");
MenuItem i8 = new MenuItem("View");

// Items for the Employess menu3
MenuItem i9 = new MenuItem("Register");
MenuItem i10 = new MenuItem("Edit");
MenuItem i11 = new MenuItem("View");

//Quit
MenuItem quit = new MenuItem("Close Application");
menu5.add(quit);
quit.addActionListener(new ActionListener()
        {
                public void actionPerformed(ActionEvent e)
                {
                        try
                        {
                                f5.dispose();
                        }
                        catch(Exception ex)
                        {
                                JOptionPane.showMessageDialog(null,ex);
                        }
                }
        });

gohome.addActionListener(new ActionListener()
        {
                public void actionPerformed(ActionEvent e)
                {
                        try
                        {
                                f5.dispose();
                                mainFrame main = new mainFrame();
                        }
                        catch(Exception ex)
                        {
```

```java
                                JOptionPane.showMessageDialog(null,ex);
                        }
                }
        });

        i1.addActionListener(new ActionListener()
                {
                        public void actionPerformed(ActionEvent e)
                        {
                                try
                                {
                                        f5.dispose();
                                        registerProduct regP = new registerProduct();
                                }
                                catch(Exception ex)
                                {
                                        JOptionPane.showMessageDialog(null,ex);
                                }
                        }
                });
        i2.addActionListener(new ActionListener()
                {
                        public void actionPerformed(ActionEvent e)
                        {
                                try
                                {
                                        f5.dispose();
                                        searchProduct regP = new searchProduct();
                                }
                                catch(Exception ex)
                                {
                                        JOptionPane.showMessageDialog(null,ex);
                                }
                        }
                });
        i3.addActionListener(new ActionListener()
                {
                        public void actionPerformed(ActionEvent e)
                        {
                                try
                                {
                                        f5.dispose();
                                        updateProduct regP = new updateProduct();
                                }
                                catch(Exception ex)
                                {
                                        JOptionPane.showMessageDialog(null,ex);
                                }
                        }
```

```
        });
fn = new Font("Arial",Font.BOLD,25);
lb1 = new Label("Product Deletion");
lb1.setForeground(Color.white);
lb1.setFont(fn);
lb1.setBounds(10,40,80,25);

fn2 = new Font("Arial",Font.PLAIN,14);
lb2 = new Label("Product code:");
lb2.setFont(fn2);
lb2.setBounds(40,170,90,20);
lb2.setForeground(Color.BLACK);

t1 = new JTextField("");
t1.setBounds(140,170,150,22);
t1.addKeyListener(new KeyAdapter()
        {
                public void keyTyped(KeyEvent e)
                {
                        char character = e.getKeyChar();
                        if (((character < '0') || (character > '9')) && (character != '\b'))
                        {
                                e.consume();
                        }
                }
        });

/*lb3 = new Label("Product Name:");
lb3.setFont(fn2);
lb3.setBounds(40,180,100,20);
lb3.setForeground(Color.white);

t1 = new JTextField("");
t1.setBounds(150,150,170,20); */

bt1 = new JButton("Delete");
bt1.setBackground(Color.GRAY);
bt1.setForeground(Color.WHITE);
bt1.setBounds(310,170,100,20);

bt2 = new JButton("Clear");
bt2.setBackground(Color.GRAY);
bt2.setForeground(Color.WHITE);
bt2.setBounds(420,170,100,20);

bt3 = new JButton("< Go Home");
bt3.setBackground(Color.GRAY);
bt3.setForeground(Color.WHITE);
bt3.setBounds(420,400,100,20);
```

```java
JLabel lb_img1 = new JLabel(new ImageIcon("A:/IV_semester/Java_lab/CIA
3/imgs/stock3.png"));
//lb_img1.setLayout(null);
lb_img1.setBounds(-25,210,300,250);
//lb_img1.setSize(650,400);

bt1.addActionListener(new ActionListener()
        {
                public void actionPerformed(ActionEvent e2)
                {
                        try
                        {
                                String sql="select p_code from product where p_code=?";
                pst = con.prepareStatement(sql);
                pst.setString(1, t1.getText());
                rs= pst.executeQuery();
                if(rs.next())
                {
                        JOptionPane.showMessageDialog(null,"Product '"+t1.getText()+"'
                        is available!\n\nClick ok then it will get deleted.");
                        theQuery("delete from product where p_code='"+t1.getText()+"'");
                        JOptionPane.showMessageDialog(null,"Product '"+ t1.getText()
                        +"' was successfully deleted.");
                }
                else
                {
                        JOptionPane.showMessageDialog(null,"Product '"+t1.getText()+"'
                        is not available in our database!");
                }
                        }
                        catch(Exception ex)
                        {
                                JOptionPane.showMessageDialog(null,ex);
                        }
                }
        });
bt2 .addActionListener(new ActionListener()
        {
                public void actionPerformed(ActionEvent e3)
                {
                        try
                        {
                                t1.setText("");
                        }
                        catch(Exception ex)
                        {
                                JOptionPane.showMessageDialog(null,ex);
                        }
```

```
                }
        });
bt3.addActionListener(new ActionListener()
        {
                public void actionPerformed(ActionEvent e3)
                {
                        try
                        {
                                f5.dispose();
                                mainFrame obj1 = new mainFrame();
                        }
                        catch(Exception ex)
                        {
                                JOptionPane.showMessageDialog(null,ex);
                        }
                }
        });
i6.addActionListener(new ActionListener()
        {
                public void actionPerformed(ActionEvent e)
                {
                        try
                        {
                                f5.dispose();
                                registerCustomer regP = new registerCustomer();
                        }
                        catch(Exception ex)
                        {
                                JOptionPane.showMessageDialog(null,ex);
                        }
                }
        });

menu.add(gohome);

menu1.add(i1);
menu1.add(i2);
menu1.add(i3);
menu1.add(i4);

menu2.add(i6);
menu2.add(i7);
menu2.add(i8);

menu3.add(i9);
menu3.add(i10);
menu3.add(i11);

mb.add(menu);
```

```java
                mb.add(menu1);
                mb.add(menu2);
                mb.add(menu3);
                mb.add(menu4);
                mb.add(menu5);

                f5.setMenuBar(mb);
                panel.add(lb1);
                f5.add(panel);

                f5.add(lb2);

                f5.add(t1);

                f5.add(bt1);
                f5.add(bt2);
                f5.add(bt3);

                f5.add(lb_img1);

                f5.setLayout(null);
                f5.setVisible(true);
                f5.setSize(550,450);
        }
                // SETTING UP THE CONNECTION
        public void theQuery(String query)
        {
                Connection con = null;
                Statement st = null;
                try
                {
                        con =
DriverManager.getConnection("jdbc:mysql://localhost/sonoo","root","heddyshost");
                        st = con.createStatement();
                        st.executeUpdate(query);
                        JOptionPane.showMessageDialog(null, "Query executed");
                }
                catch(Exception ex)
                {
                        JOptionPane.showMessageDialog(null, ex.getMessage());
                }
        }
        public static void main(String[] args)
        {
                new deleteProduct();
        }
}
```
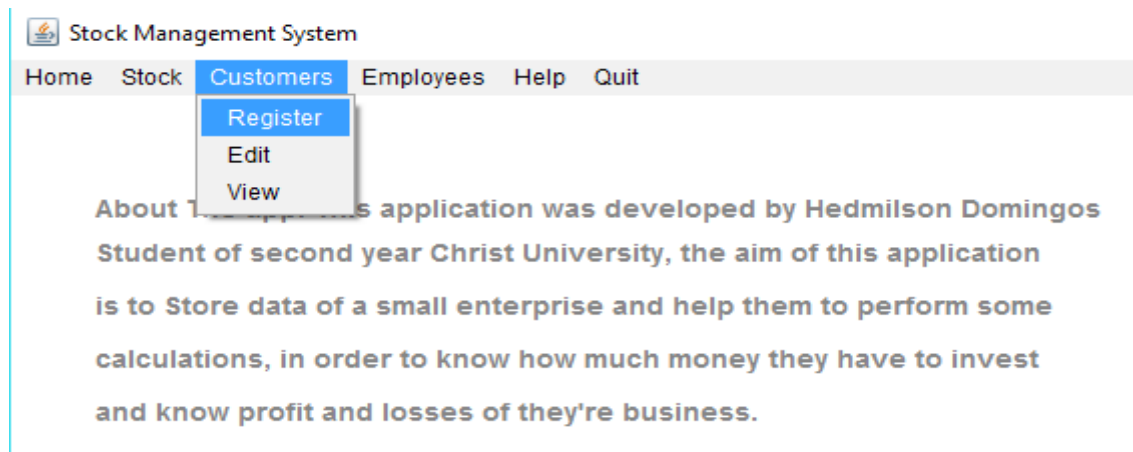
Menu Bar

It will possible to register customers and employees as well, Edit and visualize their information.
- Register customers and employees as well.
- Edit and visualize their information.

Features:

It will be possible to Track the product that our customers buy.
- And much more.

Register Customer Frame

Code:
```java
import java.io.*;
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import javax.swing.JFrame;
import java.sql.*;
import java.sql.DriverManager;

public class registerCustomer extends WindowAdapter
{
        Frame f6;
        JButton bt1,bt2,bt3;
        Label lb1,lb2,lb3,lb4,lb5,lb5_1,lb6,lb7,lb8,lb9,lb_img1,lb_id;
        JPanel panel = new JPanel();
        Font fn,fn2;
        String gender;
        JTextField t1,t2,t3,t4,t4_1,t4_2,t5,t6,t7,t8,t_gender,t_id;
        Choice c;
        JRadioButton r1=new JRadioButton("Male");
        JRadioButton r2=new JRadioButton("Female");


        public registerCustomer()
        {
                gui();
        }
        public void windowClosing(WindowEvent e)
        {
                f6.dispose();
                mainFrame obj = new mainFrame();
        }
        public void gui()
        {
                f6 = new Frame("Customer Registration");
                f6.addWindowListener(this);
                f6.setBackground(Color.WHITE);

                panel.setBackground(Color.GRAY);
                panel.setBounds(5,40,950,100);

                MenuBar mb = new MenuBar();
                Menu menu = new Menu("Home");
                Menu menu1 = new Menu("Stock");
                // Menu submenu = new Menu("Sub Menu");
                Menu menu2 = new Menu("Customers");
                Menu submenu_custm = new Menu("Sub Menu");
                Menu menu3 = new Menu("Employees");
                Menu submenu_emp = new Menu("Sub Menu");
```

```java
Menu menu4 = new Menu("Help");
Menu menu5 = new Menu("Quit");

//menu
MenuItem gohome = new MenuItem("Go Home");
menu.add(gohome);
//Quit
MenuItem quit = new MenuItem("Close Application");
menu5.add(quit);

// Items for the first menu1
MenuItem i1 = new MenuItem("Register Product");
MenuItem i2 = new MenuItem("Search   Product");
MenuItem i3 = new MenuItem("Update   Product");
MenuItem i4 = new MenuItem("Delete   Product");
//MenuItem i5 = new MenuItem("Sub menu Item 2");

// Items for the Customers menu2
MenuItem i6 = new MenuItem("Register");
MenuItem i7 = new MenuItem("Edit");
MenuItem i8 = new MenuItem("View");

// Items for the Employess menu3
MenuItem i9 = new MenuItem("Register");
MenuItem i10 = new MenuItem("Edit");
MenuItem i11 = new MenuItem("View");

gohome.addActionListener(new ActionListener()
        {
                public void actionPerformed(ActionEvent e)
                {
                        try
                        {
                                f6.dispose();
                                mainFrame regP = new mainFrame();
                        }
                        catch(Exception ex)
                        {
                                JOptionPane.showMessageDialog(null,ex);
                        }
                }
        });
quit.addActionListener(new ActionListener()
        {
                public void actionPerformed(ActionEvent e)
                {
                        try
                        {
                                f6.dispose();
```

```java
				}
				catch(Exception ex)
				{
						JOptionPane.showMessageDialog(null,ex);
				}
			}
		});
	i1.addActionListener(new ActionListener()
		{
				public void actionPerformed(ActionEvent e)
				{
						try
						{
								f6.dispose();
								registerProduct regP = new registerProduct();
						}
						catch(Exception ex)
						{
								JOptionPane.showMessageDialog(null,ex);
						}
				}
		});
	i2.addActionListener(new ActionListener()
		{
				public void actionPerformed(ActionEvent e)
				{
						try
						{
								f6.dispose();
								searchProduct regP = new searchProduct();
						}
						catch(Exception ex)
						{
								JOptionPane.showMessageDialog(null,ex);
						}
				}
		});
	i3.addActionListener(new ActionListener()
		{
				public void actionPerformed(ActionEvent e)
				{
						try
						{
								f6.dispose();
								updateProduct regP = new updateProduct();
						}
						catch(Exception ex)
						{
								JOptionPane.showMessageDialog(null,ex);
```

```java
                    }
                }
        });
        i4.addActionListener(new ActionListener()
            {
                    public void actionPerformed(ActionEvent e)
                    {
                            try
                            {
                                    f6.dispose();
                                    deleteProduct regP = new deleteProduct();
                            }
                            catch(Exception ex)
                            {
                                    JOptionPane.showMessageDialog(null,ex);
                            }
                    }
        });
        fn = new Font("Arial",Font.BOLD,25);
        lb1 = new Label("Customer Registration");
        lb1.setForeground(Color.white);
        lb1.setFont(fn);
        lb1.setBounds(10,40,80,25);

        fn2 = new Font("Arial",Font.PLAIN,14);
        lb2 = new Label("First Name");
        lb2.setFont(fn2);
        lb2.setBounds(40,150,100,20);
        lb2.setForeground(Color.BLACK);

        lb3 = new Label("Last Name:");
        lb3.setFont(fn2);
        lb3.setBounds(40,180,100,20);
        lb3.setForeground(Color.BLACK);

        lb4 = new Label("Mobile no:");
        lb4.setFont(fn2);
        lb4.setBounds(40,210,100,20);
        lb4.setForeground(Color.BLACK);

        lb5 = new Label("DOB:");
        lb5.setFont(fn2);
        lb5.setBounds(40,240,100,20);
        lb5.setForeground(Color.BLACK);

        lb5_1 = new Label("Gender:");
        lb5_1.setFont(fn2);
        lb5_1.setBounds(40,270,100,20);
        lb5_1.setForeground(Color.BLACK);
```

```java
t1 = new JTextField("");
t1.setBounds(150,150,170,20);
t2 = new JTextField("");
t2.setBounds(150,180,170,20);
t3 = new JTextField("");
t3.setBounds(150,210,170,20);
t3.addKeyListener(new KeyAdapter()
        {
                public void keyTyped(KeyEvent e)
                {
                        char character = e.getKeyChar();
                        if (((character < '0') || (character > '9')) && (character != '\b'))
                        {
                                e.consume();
                        }
                        else if (t3.getText().length() >= 10)
                        {
                                e.consume();
                        }
                }
        });
t4 = new JTextField("");
t4.setBounds(150,240,40,20);
t4_1 = new JTextField("");
t4_1.setBounds(200,240,40,20);
t4_2 = new JTextField("");
t4_2.setBounds(250,240,70,20);
t4.addKeyListener(new KeyAdapter()
        {
                public void keyTyped(KeyEvent e)
                {
                        char character = e.getKeyChar();
                        if (((character < '0') || (character > '9')) && (character != '\b'))
                        {
                                e.consume();
                        }
                        else if (t4.getText().length() >= 2)
                        {
                                e.consume();
                        }
                }
        });
t4_1.addKeyListener(new KeyAdapter()
        {
                public void keyTyped(KeyEvent e)
                {
                        char character = e.getKeyChar();
```

```java
                    if (((character < '0') || (character > '9')) && (character != '\b'))
                    {
                            e.consume();
                    }
                    else if (t4_1.getText().length() >= 2)
                    {
                            e.consume();
                    }
            }
    });
t4_2.addKeyListener(new KeyAdapter()
        {
                public void keyTyped(KeyEvent e)
                {
                        char character = e.getKeyChar();
                        if (((character < '0') || (character > '9')) && (character != '\b'))
                        {
                                e.consume();
                        }
                        else if (t4_2.getText().length() >= 4)
                        {
                                e.consume();
                        }
                }
        });


r1.setBounds(150,270,60,20);
r1.setForeground(Color.BLACK);
r1.setBackground(Color.WHITE);
r2.setBounds(220,270,70,20);
r2.setForeground(Color.BLACK);
r2.setBackground(Color.WHITE);

ButtonGroup bg = new ButtonGroup();
bg.add(r1);
bg.add(r2);
f6.add(r1);
f6.add(r2);

lb6 = new Label("Address:");
lb6.setFont(fn2);
lb6.setBounds(340,150,125,20);
lb6.setForeground(Color.BLACK);

lb7 = new Label("City:");
lb7.setFont(fn2);
lb7.setBounds(340,180,100,20);
lb7.setForeground(Color.BLACK);
```

```java
lb8 = new Label("Postal Code:");
lb8.setFont(fn2);
lb8.setBounds(340,210,100,20);
lb8.setForeground(Color.BLACK);

lb9 = new Label("Country:");
lb9.setFont(fn2);
lb9.setBounds(340,240,100,20);
lb9.setForeground(Color.BLACK);

lb_id = new Label("Customer ID:");
lb_id.setFont(fn2);
lb_id.setBounds(340,270,100,20);
lb_id.setForeground(Color.BLACK);

t5 = new JTextField("");
t5.setBounds(470,150,130,20);
t6 = new JTextField("");
t6.setBounds(470,180,130,20);
t7 = new JTextField("");
t7.setBounds(470,210,130,20);
t7.addKeyListener(new KeyAdapter()
{
        public void keyTyped(KeyEvent e)
        {
                char character = e.getKeyChar();
                if (((character < '0') || (character > '9')) && (character != '\b'))
                {
                        e.consume();
                }
        }
});
c = new Choice();
c.setBounds(470,240,130,20);
c.add("Afganistan");
c.add("Angola");
c.add("Brasil");
c.add("India");
c.add("USA");

t_id = new JTextField("");
t_id.setBounds(470,270,130,20);
f6.add(c);

bt1 = new JButton("Register");
bt1.setBackground(Color.GRAY);
bt1.setForeground(Color.WHITE);
bt1.setBounds(600,400,95,20);
```

```java
bt2 = new JButton("Clear All");
bt2.setBackground(Color.GRAY);
bt2.setForeground(Color.WHITE);
bt2.setBounds(710,400,95,20);

bt3 = new JButton("< Go Home");
bt3.setBackground(Color.GRAY);
bt3.setForeground(Color.WHITE);
bt3.setBounds(820,400,100,20);

JLabel lb_img1 = new JLabel(new ImageIcon("A:/IV_semester/Java_lab/CIA
3/imgs/solutions.png"));
//lb_img1.setLayout(null);
lb_img1.setBounds(650,150,260,200);
//lb_img1.setSize(650,400);
t_gender = new JTextField("");
bt1.addActionListener(new ActionListener()
        {
                public void actionPerformed(ActionEvent e2)
                {
                        try
                        {
                                if (r1.isSelected())
                                {
                                        t_gender.setText("Male");
                                }
                                else if (r2.isSelected())
                                {
                                        t_gender.setText("Female");
                                }
                                theQuery("insert into customer (customer_id ,first_name,
last_name, mobile_no, day, month, year, gender, address, city,postal_code,country) values
('"+t_id.getText()+"','"+t1.getText()+"','"+t2.getText()+"','"+t3.getText()+"','"+t4.getText()
+"','"+t4_1.getText()+"','"+t4_2.getText()+"','"+t_gender.getText()+"','"+t5.getText()+"','"+t6.getText()
+"','"+t7.getText()+"','"+c.getSelectedItem()+"') ");
                                        JOptionPane.showMessageDialog(null," Data successfully
                                        saved...\n Thank you very much...");
                        }
                        catch(Exception ex)
                        {
                                JOptionPane.showMessageDialog(null,ex);
                        }
                }
        });

bt2.addActionListener(new ActionListener()
        {
                public void actionPerformed(ActionEvent e2)
```

```java
                {
                        try
                        {
                                t1.setText("");
                                t2.setText("");
                                t3.setText("");
                                t4.setText("");
                                t4_1.setText("");
                                t4_2.setText("");
                                t5.setText("");
                                t6.setText("");
                                t7.setText("");
                                t_id.setText("");
                        }
                        catch(Exception ex)
                        {
                                JOptionPane.showMessageDialog(null,ex);
                        }
                }
        });

        bt3.addActionListener(new ActionListener()
        {
                public void actionPerformed(ActionEvent e3)
                {
                        try
                        {
                                f6.dispose();
                                mainFrame obj1 = new mainFrame();
                        }
                        catch(Exception ex)
                        {
                                JOptionPane.showMessageDialog(null,ex);
                        }
                }
        });

    menu1.add(i1);
    menu1.add(i2);
    menu1.add(i3);
    menu1.add(i4);

    menu2.add(i6);
    menu2.add(i7);
    menu2.add(i8);

    menu3.add(i9);
    menu3.add(i10);
    menu3.add(i11);
```

```java
        mb.add(menu);
        mb.add(menu1);
        mb.add(menu2);
        mb.add(menu3);
        mb.add(menu4);
        mb.add(menu5);

        f6.setMenuBar(mb);
        panel.add(lb1);
        f6.add(panel);

        f6.add(lb2);
        f6.add(lb3);
        f6.add(lb4);
        f6.add(lb4);
        f6.add(lb4);
        f6.add(lb5);
        f6.add(lb5_1);
        f6.add(lb6);
        f6.add(lb7);
        f6.add(lb8);
        f6.add(lb9);
        f6.add(lb_id);

        f6.add(t1);
        f6.add(t2);
        f6.add(t3);
        f6.add(t4);
        f6.add(t4_1);
        f6.add(t4_2);
        f6.add(t5);
        f6.add(t6);
        f6.add(t7);
        f6.add(t_id);

        f6.add(bt1);
        f6.add(bt2);
        f6.add(bt3);

        f6.add(lb_img1);

        f6.setLayout(null);
        f6.setVisible(true);
        f6.setSize(950,450);
}
        // SETTING UP THE CONNECTION
public void theQuery(String query)
{
```

```java
            Connection con = null;
            Statement st = null;
            try
            {
                    con =
    DriverManager.getConnection("jdbc:mysql://localhost/sonoo","root","heddyshost");
                    st = con.createStatement();
                    st.executeUpdate(query);
            }
            catch(Exception ex)
            {
                    JOptionPane.showMessageDialog(null, ex.getMessage());
            }
    }
    public static void main(String[] args)
    {
            new registerCustomer();
    }
}
```