Sales Manager for Computer Shop
Subject:
Object Oriented Programming With Java -Lab

S. E. CMPN

Under the guidance of
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1. INTRODUCTION

In a Shop Management System, it store records of suppliers, hardware, software, sale, purchase and customer's records are maintained and manipulated. There is now some investigations are involved to find out or to correctly done the work. Generally these works are done and managed, manually hence leading to the chances of human errors that may create some problems. Thus, a secured and reliable system is required to handle it.

Computer Shop Management System, as described above, can lead to error free, secure, reliable and fast management system.

It can assist the staff to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources.
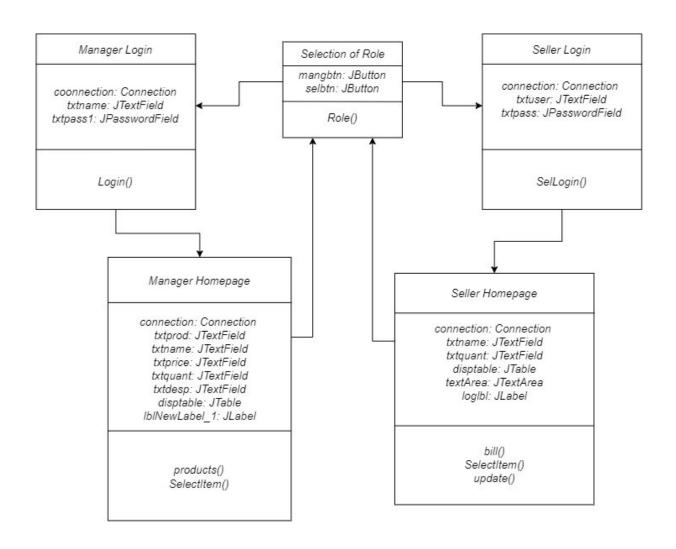
2.PROBLEM DEFINITION

The problem is to design and develop software to handle the Computers, company details, cost prices, customer's details in the Shop and prepare the report of a particular Computer and company and to handle the records of other enquiries which come to shop. There is lack of coordination among various related processes of the shop that should be checked out. Besides, there exist various problems in data handling such as a large number of registers to be maintained separately, loss of data due to inefficient entry, data redundancy and complex manipulation of data in searching particulars entry.

The problem can be divided into sub problems like:

1. To keep and manage Computer detail.
2. To prepare price details.
3. To manage customers and billing process.

3. CLASS DIAGRAM:

Manager Login

coonnection: Connection
txtname: JTextField
txtpass1: JPasswordField

Login()

Selection of Role

mangbtn: JButton
selbtn: JButton

Role()

Seller Login

connection: Connection
txtuser: JTextField
txtpass: JPasswordField

SelLogin()

Manager Homepage

connection: Connection
txtprod: JTextField
txtname: JTextField
txtprice: JTextField
txtquant: JTextField
txtdesp: JTextField
disptable: JTable
lblNewLabel_1: JLabel

products()
SelectItem()

Seller Homepage

connection: Connection
txtname: JTextField
txtquant: JTextField
disptable: JTable
textArea: JTextArea
loglbl: JLabel

bill()
SelectItem()
update()

4. IMPLEMENTATION(Code):

- **Select your role page:**

```java
import java.awt.BorderLayout;
import java.awt.EventQueue;
import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import java.awt.Color;
import java.awt.Button;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
import javax.swing.JLabel;
import java.awt.Font;

public class Role extends JFrame {

private JPanel contentPane;

/**
 * Launch the application.
 */
public static void main(String[] args) {
EventQueue.invokeLater(new Runnable() {
public void run() {
try {
Role frame = new Role();
frame.setVisible(true);
} catch (Exception e) {
e.printStackTrace();
}
}
});
}

/**
 * Create the frame.
 */
public Role() {
setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
setBounds(100, 100, 500, 350);
contentPane = new JPanel();
contentPane.setBackground(new Color(25, 25, 112));
contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
setContentPane(contentPane);
contentPane.setLayout(null);

JPanel panel = new JPanel();
```

```java
panel.setBounds(28, 30, 424, 244);
contentPane.add(panel);
panel.setLayout(null);

Button button = new Button("Manager");
button.setFont(new Font("Berlin Sans FB", Font.BOLD, 18));
button.setForeground(new Color(255, 255, 255));
button.setBackground(new Color(112, 128, 144));
button.addActionListener(new ActionListener() {
public void actionPerformed(ActionEvent e) {
new Login().setVisible(true);
}
});
button.setBounds(88, 91, 231, 40);
panel.add(button);

Button button_1 = new Button("Seller");
button_1.setFont(new Font("Berlin Sans FB", Font.BOLD, 18));
button_1.setForeground(new Color(255, 255, 255));
button_1.setBackground(new Color(112, 128, 144));
button_1.addActionListener(new ActionListener() {
public void actionPerformed(ActionEvent e) {
new SelLogin().setVisible(true);
}
});
button_1.setBounds(88, 149, 231, 40);
panel.add(button_1);

JLabel lblNewLabel = new JLabel("Select Your Role");
lblNewLabel.setForeground(new Color(0, 0, 0));
lblNewLabel.setFont(new Font("Tahoma", Font.BOLD, 22));
lblNewLabel.setBounds(110, 11, 190, 49);
panel.add(lblNewLabel);
}
}
```

- **Login of Admin:**

```java
import java.awt.BorderLayout;
import java.awt.EventQueue;
import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;

import com.mysql.cj.util.StringUtils;

import java.awt.Color;
import java.awt.Button;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
import java.awt.Font;
```

```java
import javax.swing.JTextField;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JPasswordField;
import java.awt.Choice;
import javax.swing.JComboBox;
import javax.swing.DefaultComboBoxModel;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.sql.Statement;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;

public class Login extends JFrame {

protected static final String SELECT = null;
private JPanel contentPane;
private JTextField txtuser;
private JPasswordField txtpass;

/**
 * Launch the application.
 */
Connection con =null;
Statement st = null;
ResultSet rs = null;

public static void main(String[] args) {
EventQueue.invokeLater(new Runnable() {
public void run() {
try {
Login frame = new Login();
frame.setVisible(true);
} catch (Exception e) {
e.printStackTrace();
}
}
});
}

/**
 * Create the frame.
 */
public Login() {
```

```java
setBackground(Color.WHITE);
setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
setBounds(100, 100, 850, 550);
contentPane = new JPanel();
contentPane.setBackground(Color.WHITE);
contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
setContentPane(contentPane);
contentPane.setLayout(null);

Button loginbtn = new Button("Login");
loginbtn.addActionListener(new ActionListener() {
public void actionPerformed(ActionEvent e) {
String Query = ("select * from products.adminlogin");
if (txtuser.getText().isEmpty() || txtpass.getPassword().equals("")){
JOptionPane.showMessageDialog(loginbtn, "Missing Info");
}
else {
try {
con = DriverManager.getConnection("jdbc:mysql://localhost:3306/products", "root",
"Aaron05@2003$");
st = con.createStatement();
rs = st.executeQuery(Query);
   if (rs.next()) {
        new Products().setVisible(true);
        this.dispose();
   }else {
JOptionPane.showMessageDialog(loginbtn, "Invalid Username or password!");
   }
}catch (SQLException ex) {
ex.printStackTrace();
}
}
}

private void dispose() {
// TODO Auto-generated method stub

}
});
loginbtn.setFont(new Font("Dialog", Font.BOLD | Font.ITALIC, 16));
loginbtn.setForeground(Color.WHITE);
loginbtn.setBackground(new Color(0, 0, 139));
loginbtn.setBounds(413, 435, 300, 40);
contentPane.add(loginbtn);

JPanel panel = new JPanel();
panel.setBackground(new Color(192, 192, 192));
panel.setForeground(new Color(0, 0, 0));
panel.setBounds(0, 0, 364, 511);
contentPane.add(panel);
```

```java
txtuser = new JTextField();
txtuser.setFont(new Font("Tahoma", Font.PLAIN, 16));
txtuser.setBounds(413, 220, 335, 40);
contentPane.add(txtuser);
txtuser.setColumns(10);

JLabel lblNewLabel_1 = new JLabel("Admin username");
lblNewLabel_1.setForeground(new Color(0, 0, 139));
lblNewLabel_1.setFont(new Font("Tahoma", Font.PLAIN, 14));
lblNewLabel_1.setBounds(413, 195, 110, 14);
contentPane.add(lblNewLabel_1);

JLabel lblNewLabel_2 = new JLabel("Password");
lblNewLabel_2.setForeground(new Color(0, 0, 128));
lblNewLabel_2.setFont(new Font("Tahoma", Font.PLAIN, 14));
lblNewLabel_2.setBounds(413, 280, 96, 14);
contentPane.add(lblNewLabel_2);

txtpass = new JPasswordField();
txtpass.setFont(new Font("Tahoma", Font.PLAIN, 16));
txtpass.setBounds(413, 305, 335, 40);
contentPane.add(txtpass);

JLabel lblNewLabel_3 = new JLabel("Login");
lblNewLabel_3.setForeground(new Color(0, 0, 128));
lblNewLabel_3.setFont(new Font("Tahoma", Font.BOLD, 34));
lblNewLabel_3.setBounds(413, 11, 110, 45);
contentPane.add(lblNewLabel_3);

JLabel lblNewLabel = new JLabel("Manager");
lblNewLabel.setForeground(new Color(25, 25, 112));
lblNewLabel.setFont(new Font("Tahoma", Font.BOLD, 18));
lblNewLabel.setBounds(413, 123, 126, 40);
contentPane.add(lblNewLabel);
}
}
```

- **Login of Seller:**

```java
import java.awt.BorderLayout;
import java.awt.EventQueue;

import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JTextField;
import java.awt.Font;
import javax.swing.JPasswordField;
```

```java
import java.awt.Color;
import javax.swing.JButton;
import java.awt.Button;
import java.awt.event.ActionListener;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.awt.event.ActionEvent;

public class SelLogin extends JFrame {

private JPanel contentPane;
private JTextField txtname;
private JPasswordField txtpass1;

/**
 * Launch the application.
 */

Connection con =null;
Statement st = null;
ResultSet rs = null;

public static void main(String[] args) {
EventQueue.invokeLater(new Runnable() {
public void run() {
try {
SelLogin frame = new SelLogin();
frame.setVisible(true);
} catch (Exception e) {
e.printStackTrace();
}
}
});
}

/**
 * Create the frame.
 */
public SelLogin() {
setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
setBounds(100, 100, 764, 512);
contentPane = new JPanel();
contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
setContentPane(contentPane);
contentPane.setLayout(null);

JLabel lblNewLabel = new JLabel("Seller");
```

```java
lblNewLabel.setFont(new Font("Tahoma", Font.BOLD, 18));
lblNewLabel.setBounds(318, 114, 98, 27);
contentPane.add(lblNewLabel);

JLabel lblNewLabel_1 = new JLabel("Seller username");
lblNewLabel_1.setFont(new Font("Tahoma", Font.PLAIN, 13));
lblNewLabel_1.setBounds(318, 193, 98, 14);
contentPane.add(lblNewLabel_1);

JLabel lblNewLabel_2 = new JLabel("Password");
lblNewLabel_2.setFont(new Font("Tahoma", Font.PLAIN, 13));
lblNewLabel_2.setBounds(318, 291, 73, 14);
contentPane.add(lblNewLabel_2);

txtname = new JTextField();
txtname.setBounds(318, 218, 335, 40);
contentPane.add(txtname);
txtname.setColumns(10);

JLabel lblNewLabel_3 = new JLabel("Login");
lblNewLabel_3.setFont(new Font("Tahoma", Font.BOLD, 33));
lblNewLabel_3.setBounds(318, 22, 117, 42);
contentPane.add(lblNewLabel_3);

txtpass1 = new JPasswordField();
txtpass1.setBounds(318, 316, 335, 40);
contentPane.add(txtpass1);

JPanel panel = new JPanel();
panel.setBackground(Color.GRAY);
panel.setForeground(Color.WHITE);
panel.setBounds(0, 0, 294, 473);
contentPane.add(panel);
panel.setLayout(null);

Button loginbtn = new Button("Login");
loginbtn.addActionListener(new ActionListener() {
public void actionPerformed(ActionEvent e) {
String Query = ("select * from products.login");
if (txtname.getText().isEmpty() || txtpass1.getPassword().equals("")){
JOptionPane.showMessageDialog(loginbtn, "Missing Info");
}
else {
try {
con = DriverManager.getConnection("jdbc:mysql://localhost:3306/products", "root",
"Aaron05@2003$");
st = con.createStatement();
rs = st.executeQuery(Query);
    if (rs.next()) {
        new bill().setVisible(true);
```

```java
        this.dispose();
    }else {
JOptionPane.showMessageDialog(loginbtn, "Invalid Username or password!");
    }
}catch (SQLException ex) {
ex.printStackTrace();
}
}
}

private void dispose() {
// TODO Auto-generated method stub

}
});
loginbtn.setForeground(Color.WHITE);
loginbtn.setFont(new Font("Dialog", Font.BOLD | Font.ITALIC, 16));
loginbtn.setBackground(new Color(0, 0, 0));
loginbtn.setBounds(356, 398, 300, 40);
contentPane.add(loginbtn);
}
}
```

- **Page of Admin:**

```java
import java.awt.BorderLayout;
import java.awt.EventQueue;
import javax.swing.*;
import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import java.awt.Button;
import java.awt.Color;
import javax.swing.JLabel;
import java.awt.Font;
import javax.swing.JTextField;
import javax.swing.JComboBox;
import javax.swing.DefaultComboBoxModel;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
import javax.swing.JTable;
import javax.swing.ListSelectionModel;
import javax.swing.JList;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
import net.proteanit.sql.DbUtils;
import javax.swing.JTextPane;
import java.awt.ScrollPane;
import javax.swing.JScrollPane;
import javax.swing.SwingConstants;
import java.awt.event.MouseAdapter;
```

```java
import java.awt.event.MouseEvent;
import java.sql.Statement;
import java.util.ArrayList;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import javax.swing.border.LineBorder;

public class Products extends JFrame {

private JPanel contentPane;
private JTextField txtprod;
private JTextField txtname;
private JTextField txtprice;
private JTextField txtquant;
private JTextField txtdesp;
private JTable disptable;
DefaultTableModel model;


/**
 * Launch the application.
 */
Connection con =null;
Statement st = null;
ResultSet rs = null;

public void SelectItem()

{
try {
con = DriverManager.getConnection("jdbc:mysql://localhost:3306/products", "root",
"Aaron05@2003$");
st = con.createStatement();
rs = st.executeQuery("select * from products.products");
disptable.setModel(DbUtils.resultSetToTableModel(rs));
}catch (Exception e)
{
e.printStackTrace();
}
}

    public static void main(String[] args) {
EventQueue.invokeLater(new Runnable() {
public void run() {
try {
Products frame = new Products();
frame.setVisible(true);
```

```java
} catch (Exception e) {
e.printStackTrace();
}
}
});
}
/**
 * Create the frame.
 */
public Products() {

setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
setBounds(100, 100, 1000, 600);
contentPane = new JPanel();
contentPane.setBackground(new Color(25, 25, 112));
contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
setContentPane(contentPane);
contentPane.setLayout(null);

JPanel panel = new JPanel();
panel.setBackground(new Color(255, 255, 255));
panel.setBounds(149, 28, 835, 533);
contentPane.add(panel);
panel.setLayout(null);

JLabel lblNewLabel = new JLabel("Manage Products");
lblNewLabel.setFont(new Font("Tahoma", Font.BOLD, 25));
lblNewLabel.setBounds(323, 0, 232, 58);
panel.add(lblNewLabel);

txtprod = new JTextField();
txtprod.setFont(new Font("Tahoma", Font.PLAIN, 14));
txtprod.setBounds(32, 87, 169, 25);
panel.add(txtprod);
txtprod.setColumns(10);

JLabel lblNewLabel_3 = new JLabel("Product Id");
lblNewLabel_3.setFont(new Font("Tahoma", Font.PLAIN, 13));
lblNewLabel_3.setBounds(32, 62, 72, 14);
panel.add(lblNewLabel_3);

txtname = new JTextField();
txtname.setFont(new Font("Tahoma", Font.PLAIN, 14));
txtname.setBounds(32, 148, 169, 25);
panel.add(txtname);
txtname.setColumns(10);

JLabel lblNewLabel_4 = new JLabel("Name");
lblNewLabel_4.setFont(new Font("Tahoma", Font.PLAIN, 13));
lblNewLabel_4.setBounds(32, 123, 72, 14);
```

```java
panel.add(lblNewLabel_4);

txtprice = new JTextField();
txtprice.setFont(new Font("Tahoma", Font.PLAIN, 14));
txtprice.setBounds(262, 87, 169, 25);
panel.add(txtprice);
txtprice.setColumns(10);

JLabel lblNewLabel_5 = new JLabel("Price");
lblNewLabel_5.setFont(new Font("Tahoma", Font.PLAIN, 13));
lblNewLabel_5.setBounds(262, 63, 72, 14);
panel.add(lblNewLabel_5);

txtquant = new JTextField();
txtquant.setFont(new Font("Tahoma", Font.PLAIN, 14));
txtquant.setBounds(262, 148, 169, 25);
panel.add(txtquant);
txtquant.setColumns(10);

JLabel lblNewLabel_6 = new JLabel("Quantity\r\n");
lblNewLabel_6.setFont(new Font("Tahoma", Font.PLAIN, 13));
lblNewLabel_6.setBounds(262, 124, 72, 14);
panel.add(lblNewLabel_6);

txtdesp = new JTextField();
txtdesp.setFont(new Font("Tahoma", Font.PLAIN, 14));
txtdesp.setBounds(510, 87, 300, 25);
panel.add(txtdesp);
txtdesp.setColumns(10);

JLabel lblNewLabel_7 = new JLabel("Description");
lblNewLabel_7.setFont(new Font("Tahoma", Font.PLAIN, 13));
lblNewLabel_7.setBounds(510, 63, 92, 14);
panel.add(lblNewLabel_7);

Button addbtn = new Button("ADD");
addbtn.addActionListener(new ActionListener() {
public void actionPerformed(ActionEvent e) {
if(txtprod.getText().isEmpty() || txtname.getText().isEmpty() || txtdesp.getText().isEmpty() ||
txtquant.getText().isEmpty() || txtprice.getText().isEmpty())
{
JOptionPane.showMessageDialog(addbtn,"Missing Info");
}else
{
try {

con = DriverManager.getConnection("jdbc:mysql://localhost:3306/products", "root",
"Aaron05@2003$");
    PreparedStatement add = con.prepareStatement("INSERT INTO products VALUES(?,?,?,?,?)");
    add.setInt(1, Integer.valueOf(txtprod.getText()));
```

```java
   add.setString(2, txtname.getText());
   add.setInt(3, Integer.valueOf(txtquant.getText()));
   add.setInt(4, Integer.valueOf(txtprice.getText()));
   add.setString(5, txtdesp.getText());
   int row = add.executeUpdate();
   SelectItem();
      JOptionPane.showMessageDialog(addbtn, "Item Added Successfully!");
      con.close();
   txtprod.setText("");
txtname.setText("");
txtquant.setText("");
txtprice.setText("");
txtdesp.setText("");
}catch (Exception ae) {
ae.printStackTrace();
}
}
}
});
addbtn.setForeground(Color.WHITE);
addbtn.setBackground(new Color(106, 90, 205));
addbtn.setFont(new Font("Berlin Sans FB", Font.BOLD, 15));
addbtn.setBounds(103, 209, 84, 33);
panel.add(addbtn);

Button editbtn = new Button("EDIT");
editbtn.setFont(new Font("Berlin Sans FB", Font.BOLD, 15));
editbtn.setForeground(Color.WHITE);
editbtn.setBackground(new Color(106, 90, 205));
editbtn.addActionListener(new ActionListener() {
public void actionPerformed(ActionEvent e) {
if(txtprod.getText().isEmpty() || txtname.getText().isEmpty() || txtdesp.getText().isEmpty() ||
txtquant.getText().isEmpty() || txtprice.getText().isEmpty())
{
JOptionPane.showMessageDialog(editbtn,  "Missing Info");
}else
{
try {
con = DriverManager.getConnection("jdbc:mysql://localhost:3306/products", "root",
"Aaron05@2003$");
   String Query = "UPDATE products.products set
Name='"+txtname.getText()+"'"+",Quantity='"+txtquant.getText()+"'"+",Price='"+txtprice.getText
()+"'"+",Description='"+txtdesp.getText()+"'"+"where Productid="+txtprod.getText();
Statement Add = con.createStatement();
Add.executeUpdate(Query);
   JOptionPane.showMessageDialog(editbtn, "Item Editted Successfully!");
   txtprod.setText("");
txtname.setText("");
txtquant.setText("");
txtprice.setText("");
```

```java
txtdesp.setText("");
SelectItem();
}catch (SQLException ae) {
ae.printStackTrace();
}
}
}
});
editbtn.setBounds(250, 209, 84, 33);
panel.add(editbtn);

Button clearbtn = new Button("CLEAR");
clearbtn.setBackground(new Color(106, 90, 205));
clearbtn.setFont(new Font("Berlin Sans FB", Font.BOLD, 15));
clearbtn.setForeground(Color.WHITE);
clearbtn.addActionListener(new ActionListener() {
public void actionPerformed(ActionEvent e) {
txtprod.setText("");
txtname.setText("");
txtquant.setText("");
txtprice.setText("");
txtdesp.setText("");
}
});
clearbtn.setBounds(406, 209, 84, 33);
panel.add(clearbtn);

Button delbtn = new Button("DELETE");
delbtn.addActionListener(new ActionListener() {
public void actionPerformed(ActionEvent e) {
if(txtprod.getText().isEmpty())
{
JOptionPane.showMessageDialog(delbtn, "Missing Info");
}else
{
try {
con = DriverManager.getConnection("jdbc:mysql://localhost:3306/products", "root",
"Aaron05@2003$");
   String pid = txtprod.getText();
   String Query = "DELETE FROM products.products where Productid="+pid;
   Statement Add = con.createStatement();
   Add.executeUpdate(Query);
   JOptionPane.showMessageDialog(delbtn, "Deleted Successfully");
   txtprod.setText("");
txtname.setText("");
txtquant.setText("");
txtprice.setText("");
txtdesp.setText("");
   SelectItem();
}catch (Exception ae) {
```

```java
ae.printStackTrace();
}
}
}
});
delbtn.setForeground(Color.WHITE);
delbtn.setFont(new Font("Berlin Sans FB", Font.BOLD, 15));
delbtn.setBackground(new Color(106, 90, 205));
delbtn.setBounds(555, 209, 84, 33);
panel.add(delbtn);

JLabel lblNewLabel_9 = new JLabel("Product List");
lblNewLabel_9.setFont(new Font("Tahoma", Font.BOLD, 18));
lblNewLabel_9.setBounds(318, 272, 127, 33);
panel.add(lblNewLabel_9);

JScrollPane scrollPane = new JScrollPane();
scrollPane.setBounds(20, 305, 778, 184);
panel.add(scrollPane);


disptable = new JTable();
disptable.addMouseListener(new MouseAdapter() {
@Override
public void mouseClicked(MouseEvent e) {
DefaultTableModel model = (DefaultTableModel)disptable.getModel();
int Myindex = disptable.getSelectedRow();
txtprod.setText(model.getValueAt(Myindex, 0).toString());
txtname.setText(model.getValueAt(Myindex, 1).toString());
txtquant.setText(model.getValueAt(Myindex, 2).toString());
txtprice.setText(model.getValueAt(Myindex, 3).toString());
txtdesp.setText(model.getValueAt(Myindex, 4).toString());
}
});
model =new DefaultTableModel();
Object[] column = {"Product ID","Name","Quantity","Price","Description"};
Object[] row = new Object[0];
model.setColumnIdentifiers(column);
disptable.setModel(model);
SelectItem();
scrollPane.setViewportView(disptable);
disptable.setBorder(new LineBorder(new Color(0, 0, 0)));


JLabel lblNewLabel_1 = new JLabel("Logout");
lblNewLabel_1.addMouseListener(new MouseAdapter() {
@Override
public void mouseClicked(MouseEvent e) {
new Role().setVisible(true);
```

```java
        this.dispose();
}

private void dispose() {
// TODO Auto-generated method stub
}
});
lblNewLabel_1.setFont(new Font("Tahoma", Font.BOLD, 22));
lblNewLabel_1.setForeground(new Color(255, 255, 255));
lblNewLabel_1.setBounds(36, 493, 84, 44);
contentPane.add(lblNewLabel_1);
}
}
```

- **Page of Seller:**

```java
import java.awt.BorderLayout;
import java.awt.EventQueue;
import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import java.awt.Color;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JTextField;
import javax.swing.JTable;
import javax.swing.JTextArea;
import javax.swing.border.TitledBorder;
import javax.swing.JScrollPane;
import javax.swing.table.DefaultTableModel;
import net.proteanit.sql.DbUtils;
import java.awt.Font;
import java.awt.Button;
import java.awt.TextArea;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.ArrayList;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
import javax.swing.JButton;


public class bill extends JFrame {

private JPanel contentPane;
private JTextField txtname;
```

```java
private JTextField txtquant;
private JTextArea textArea;
DefaultTableModel model;
private double Uprice, Prodtot , Grdtot;
int i = 0;
int AvailQty;
/**
 * Launch the application.
 */

Connection con =null;
Statement st = null;
ResultSet rs = null;
private JTable disptable;
public void SelectItem()
{
try {
con = DriverManager.getConnection("jdbc:mysql://localhost:3306/products", "root",
"Aaron05@2003$");
st = con.createStatement();
rs = st.executeQuery("SELECT * FROM products.products");
disptable.setModel(DbUtils.resultSetToTableModel(rs));
}catch (Exception e)
{
e.printStackTrace();
}
}
int prid, newqty;
public void update() {

try {
con = DriverManager.getConnection("jdbc:mysql://localhost:3306/products", "root",
"Aaron05@2003$");
    String Query = "UPDATE products.products set Quantity='"+newqty+"'"+"where
Productid="+prid;
Statement Add = con.createStatement();
Add.executeUpdate(Query);
SelectItem();
}catch (SQLException ae) {
ae.printStackTrace();
}
}

public static void main(String[] args) {
EventQueue.invokeLater(new Runnable() {
public void run() {

try {
bill frame = new bill();
frame.setVisible(true);
```
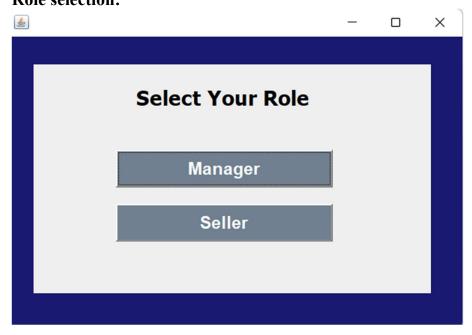
```java
} catch (Exception e) {
e.printStackTrace();
}
}
});
}

/**
 * Create the frame.
 */
public bill() {

setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
setBounds(100, 100, 1183, 690);
contentPane = new JPanel();
contentPane.setBackground(new Color(25, 25, 112));
contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
setContentPane(contentPane);
contentPane.setLayout(null);

JPanel panel = new JPanel();
panel.setBackground(new Color(255, 255, 255));
panel.setBounds(136, 29, 1023, 624);
contentPane.add(panel);
panel.setLayout(null);

JLabel lblNewLabel = new JLabel("Billing Point");
lblNewLabel.setFont(new Font("Tahoma", Font.BOLD, 27));
lblNewLabel.setBounds(406, 11, 166, 48);
panel.add(lblNewLabel);

JLabel lblNewLabel_1 = new JLabel("Product List");
lblNewLabel_1.setFont(new Font("Tahoma", Font.BOLD, 22));
lblNewLabel_1.setBounds(664, 57, 161, 28);
panel.add(lblNewLabel_1);

txtname = new JTextField();
txtname.setBounds(66, 124, 169, 31);
panel.add(txtname);
txtname.setColumns(10);

txtquant = new JTextField();
txtquant.setBounds(66, 201, 169, 31);
panel.add(txtquant);
txtquant.setColumns(10);

JLabel lblNewLabel_2 = new JLabel("Name");
lblNewLabel_2.setFont(new Font("Tahoma", Font.PLAIN, 13));
lblNewLabel_2.setBounds(66, 102, 46, 14);
panel.add(lblNewLabel_2);
```

```java
JLabel lblNewLabel_3 = new JLabel("Quantity");
lblNewLabel_3.setFont(new Font("Tahoma", Font.PLAIN, 13));
lblNewLabel_3.setBounds(66, 176, 71, 14);
panel.add(lblNewLabel_3);

Button addbtn = new Button("ADD");
addbtn.addMouseListener(new MouseAdapter() {
 @Override
public void mouseClicked(MouseEvent e) {

 if(txtquant.getText().isEmpty()||txtname.getText().isEmpty()) {
JOptionPane.showMessageDialog(addbtn, "Missing Info!");
 }
 else if(AvailQty <= Integer.valueOf(txtquant.getText())){
JOptionPane.showMessageDialog(addbtn, "Not enough in stock");
 }
 else {
 String txt = textArea.getText();
 Prodtot = Uprice * Integer.valueOf(txtquant.getText());
    newqty = AvailQty - Integer.valueOf(txtquant.getText());
 Grdtot = Grdtot + Prodtot;
 i++;
 if(i == 1) {
textArea.setText(txt+"===================COMPUTER
SHOP===================\n"+" NUM     PRODUCT         PRICE         QUANTITY
TOTAL\n"+i+"          "+txtname.getText()+"           "+Uprice+"
"+txtquant.getText()+"              "+Prodtot+"\n");
 }
 else {
   textArea.setText(txt+i+"             "+txtname.getText()+"          "+Uprice+"
"+txtquant.getText()+"              "+Prodtot+"\n");


 }
 JLabel grttot = new JLabel("Total: "+Grdtot);
 grttot.setBounds(851, 321, 147, 28);
 panel.add(grttot);
update();
txtname.setText("");
txtquant.setText("");
 }
 }
});
addbtn.setBackground(new Color(123, 104, 238));
addbtn.setForeground(new Color(255, 255, 255));
addbtn.setFont(new Font("Berlin Sans FB", Font.BOLD, 15));
addbtn.setActionCommand("");
addbtn.setBounds(66, 295, 84, 33);
panel.add(addbtn);
```
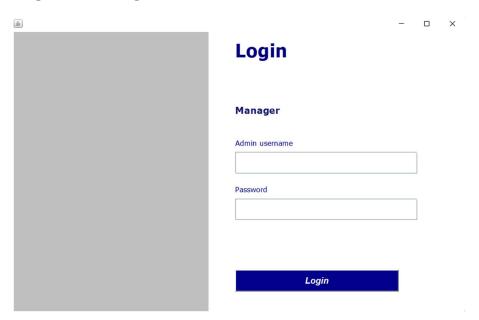
```java
Button clearbtn = new Button("CLEAR");
clearbtn.addMouseListener(new MouseAdapter() {
@Override
public void mouseClicked(MouseEvent e) {
txtname.setText("");
txtquant.setText("");
}
});
clearbtn.setBackground(new Color(123, 104, 238));
clearbtn.setForeground(new Color(255, 255, 255));
clearbtn.setFont(new Font("Berlin Sans FB", Font.BOLD, 15));
clearbtn.setBounds(227, 295, 99, 31);
panel.add(clearbtn);

Button printbtn = new Button("PRINT");
printbtn.setForeground(new Color(255, 255, 255));
printbtn.setFont(new Font("Berlin Sans FB", Font.BOLD, 15));
printbtn.setBackground(new Color(123, 104, 238));
printbtn.setBounds(914, 463, 84, 33);
panel.add(printbtn);

JScrollPane scrollPane = new JScrollPane();
scrollPane.setBounds(504, 95, 494, 129);
panel.add(scrollPane);


disptable = new JTable();
disptable.addMouseListener(new MouseAdapter() {
@Override
public void mouseClicked(MouseEvent e) {
DefaultTableModel model = (DefaultTableModel)disptable.getModel();
int Myindex = disptable.getSelectedRow();
prid = Integer.valueOf(model.getValueAt(Myindex, 0).toString());
txtname.setText(model.getValueAt(Myindex, 1).toString());
AvailQty = Integer.valueOf(model.getValueAt(Myindex, 2).toString());
Uprice = Double.valueOf(model.getValueAt(Myindex, 3).toString());
}
});
model =new DefaultTableModel();
Object[] column = {"Product ID","Name","Quantity","Price","Description"};
Object[] row = new Object[0];
model.setColumnIdentifiers(column);
disptable.setModel(model);
SelectItem();
scrollPane.setViewportView(disptable);

Button refreshbtn = new Button("REFRESH");
refreshbtn.addMouseListener(new MouseAdapter() {
@Override
```

```java
public void mouseClicked(MouseEvent e) {
txtname.setText("");
txtquant.setText("");
textArea.setText("");
}
});
refreshbtn.setForeground(Color.WHITE);
refreshbtn.setFont(new Font("Berlin Sans FB", Font.BOLD, 15));
refreshbtn.setBackground(new Color(123, 104, 238));
refreshbtn.setBounds(128, 402, 115, 31);
panel.add(refreshbtn);

textArea = new JTextArea();
textArea.setBounds(406, 234, 419, 368);
panel.add(textArea);

JLabel logbtn = new JLabel("Logout");
logbtn.addMouseListener(new MouseAdapter() {
@Override
public void mouseClicked(MouseEvent e) {
new Role().setVisible(true);
        this.dispose();
}

private void dispose() {
// TODO Auto-generated method stub

}
});
logbtn.setForeground(Color.WHITE);
logbtn.setFont(new Font("Berlin Sans FB", Font.PLAIN, 26));
logbtn.setBounds(34, 526, 109, 50);
contentPane.add(logbtn);
}
}
```
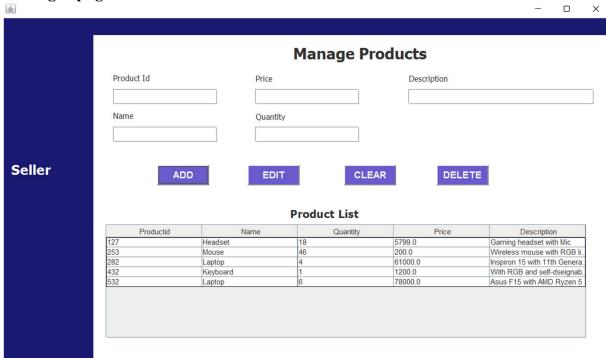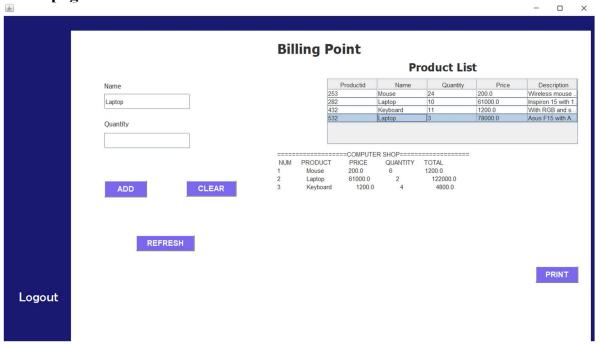
5.RESULTS:
Role selection:

Login for Manager/Seller:

Manager page:

Manage Products

Product Id

Price

Description

Name

Quantity

| ADD | EDIT | CLEAR | DELETE |

Product List

Productid	Name	Quantity	Price	Description
127	Headset	18	5799.0	Gaming headset with Mic
253	Mouse	46	200.0	Wireless mouse with RGB li...
282	Laptop	4	61000.0	Inspiron 15 with 11th Genera...
432	Keyboard	1	1200.0	With RGB and self-dseignab...
532	Laptop	6	78000.0	Asus F15 with AMD Ryzen 5

Seller (sidebar label)

Seller page:

Billing Point

Product List

Productid	Name	Quantity	Price	Description
253	Mouse	24	200.0	Wireless mouse...
282	Laptop	10	61000.0	Inspiron 15 with 1...
432	Keyboard	11	1200.0	With RGB and s...
532	Laptop	3	78000.0	Asus F15 with A...

Name

Laptop

Quantity

| ADD | CLEAR |

REFRESH

```
=================COMPUTER SHOP=================
NUM   PRODUCT    PRICE      QUANTITY    TOTAL
1     Mouse      200.0      6           1200.0
2     Laptop     61000.0    2           122000.0
3     Keyboard   1200.0     4           4800.0
```

PRINT

Logout (sidebar label)

6.System Requirements and it's specifications:

The Software Requirements Specification is produced at the culmination of the analysis task. The function and performance allocated to software as part of system engineering are refined by establishing a complete information description, a detailed functional and behavioral description, an indication of performance requirements and design constraints, appropriate validation criteria, and other data pertinent to requirements.

Software Requirements:

Server:

Software	Name
Operating System	Windows NT/2000 Server / Linux
Database	MYSQL
Language	Java JDK and JRE
Drivers	MySQL JConnector
Browser	Chrome, Internet Explorer, Mozilla etc

Networking:

Network connectivity to be ensured between Server and Clients.

Hardware Requirements:

The hardware requirements for all the platforms are: Since the project is based on the jsp, so it can run all platforms and basic hardware requirements are:

1.512 MB RAM

2. 4 GB HDD (normally)

3. Pentium family processor

4. Network Adapter Card and other related peripherals

7. CONCLUSION:

At the end it is concluded that we have made effort on following point:

1. A description of the background and context of the project and its relation to work already done in the area.
2. The description of Purpose, Scope, and applicability.
3. We defined the problem on which we are working in the project.
5. We describe the requirement Specifications of the system and the actions that can be done on these things.
6. We understand the problem domain and produce a model of the system, which describes operations that can be performed on the system.
7. We included features and operations in detail, including screen layouts.
8. We designed user interface and security issues related to system.
9. Finally the system is implemented and tested according to test cases.

8. FUTURE SCOPE:

It can be summarized that the future scope of the project circles around maintaining information regarding:

- In future the project can be extended to maintain the accounting in shop.
- The future version can also combine the facility to handle staff detail and Salary detail.
- The future version can run on network too.

The above mentioned points are the enhancements which can be done to increase the applicability and usage of this project.

9. REFERENCES:

- www.Google.com

- www.java.sun.com

- www.mysql.com

- Database Management System from IGNOU block

- Software Engineering by Roger Pressman