

## Appendix 4: Code Appendix

### LoginPage.Java

```
package com.inventory.UI;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import javax.swing.JOptionPane;
import java.time.LocalDateTime;

public class LoginPage extends javax.swing.JFrame {
    Connection Con = null;
    PreparedStatement pst = null;
    ResultSet Rs=null;

    // Constructor method
    public LoginPage() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        userText = new javax.swing.JTextField();
        passText = new javax.swing.JPasswordField();
        jLabel3 = new javax.swing.JLabel();
        jComboBox1 = new javax.swing.JComboBox<>();
        loginButton = new javax.swing.JButton();
        clearButton = new javax.swing.JButton();
    }
}
```

```

jLabel4 = new javax.swing.JLabel();

setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLOSE);
setTitle("Login");
setBackground(new java.awt.Color(102, 204, 255));
setBounds(new java.awt.Rectangle(500, 100, 0, 0));
setName("loginFrame"); // NOI18N

jLabel1.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel1.setText("Username:");

jLabel2.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel2.setText("Password:");

jLabel3.setFont(new java.awt.Font("Poor Richard", 1, 24)); // NOI18N
jLabel3.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel3.setText("PRADOR CO LTD.");

jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] {
"ADMINISTRATOR", "EMPLOYEE" }));

loginButton.setText("LOGIN");
loginButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
loginButton.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        loginButtonActionPerformed(evt);
    }
});

clearButton.setText("CLEAR");
clearButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
clearButton.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        clearButtonActionPerformed(evt);
    }
});

jLabel4.setFont(new java.awt.Font("Poor Richard", 1, 24)); // NOI18N
jLabel4.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel4.setText("INVENTORY MANAGEMENT");

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(

```

```

        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
        .addGap(47, 47, 47)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
        .addGroup(layout.createSequentialGroup()
        .addGap(42, 42, 42)
        .addComponent(loginButton, javax.swing.GroupLayout.PREFERRED_SIZE,
100, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(clearButton, javax.swing.GroupLayout.PREFERRED_SIZE,
100, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup()
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 74,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(userText, javax.swing.GroupLayout.DEFAULT_SIZE, 241,
Short.MAX_VALUE))
        .addGroup(layout.createSequentialGroup()
        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 74,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(passText))
        .addComponent(jComboBox1, 0, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
        .addContainerGap(15, Short.MAX_VALUE))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jLabel3)
        .addGap(77, 77, 77))
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addContainerGap(48, Short.MAX_VALUE)
        .addComponent(jLabel4)
        .addGap(14, 14, 14)))
        );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
        .addGap(23, 23, 23)
        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 44,
javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

        .addGap(78, 78, 78)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
            .addComponent(userText, javax.swing.GroupLayout.DEFAULT_SIZE, 31,
Short.MAX_VALUE)
            .addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
            .addComponent(passText, javax.swing.GroupLayout.PREFERRED_SIZE, 32,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGroup(layout.createSequentialGroup()
                .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 33,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(1, 1, 1)))
            .addGap(18, 18, 18)
            .addComponent(jComboBox1, javax.swing.GroupLayout.DEFAULT_SIZE, 28,
Short.MAX_VALUE)
            .addGap(46, 46, 46)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(loginButton, javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(clearButton, javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(80, 80, 80))
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(74, 74, 74)
                .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 44,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(313, Short.MAX_VALUE)))
            );

    pack();
} // </editor-fold>

```

```

String userType;
private void loginButtonActionPerformed(java.awt.event.ActionEvent evt) {
    String username = userText.getText();
    String password = passText.getText();

```

```

        userType = (String)jComboBox1.getSelectedItem();

        try {
            Class.forName("com.mysql.jdbc.Driver");
            Con = DriverManager.getConnection("jdbc:mysql://localhost/inventory","root","root");

            pst = Con.prepareStatement("select * from users where username =? and password =?
and usertype = ?");

            pst.setString(1, username);
            pst.setString(2, password);
            pst.setString(3, userType);

            Rs= pst.executeQuery();

            if(Rs.next())
            {
                dispose();
                new Dashboard(username, userType);
            }
            else
            {
                JOptionPane.showMessageDialog(this,"Username and Password do not Match");
            }

        }catch (Exception ex) {
            ex.printStackTrace();

        }

    }

    private void clearButtonActionPerformed(java.awt.event.ActionEvent evt) {
        userText.setText("");
        passText.setText("");
    }

    private void passTextActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        loginButtonActionPerformed(evt);
    }

```

```

// Driver Method
// **APPLICATION STARTS EXECUTION HERE**
public static void main(String[] args) {

    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new LoginPage().setVisible(true);
        }
    });
}

// Variables declaration - do not modify
private javax.swing.JButton clearButton;
private javax.swing.JComboBox<String> jComboBox1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JButton loginButton;
private javax.swing.JPasswordField passText;
private javax.swing.JTextField userText;
// End of variables declaration

}

```

## **Dashboard.Java**

```

package com.inventory.UI;

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

// Home dashboard after Login
public class Dashboard extends javax.swing.JFrame {

    CardLayout layout;
    public Dashboard(String username, String userType) {
        initComponents();
    }
}

```

```

nameLabel.setText("User: " + username + "   User Type: " +userType);

navPanel.setVisible(false);
menuPanel.setVisible(true);
layout = new CardLayout();
if("EMPLOYEE".equalsIgnoreCase(userType))
    notForEmployee();

displayPanel.setLayout(layout);
displayPanel.add("Home", new HomePage(username));
displayPanel.add("Users", new UsersPage());
displayPanel.add("Customers", new CustomerPage());
displayPanel.add("Products", new ProductPage(username, this));
displayPanel.add("Suppliers", new SupplierPage());
displayPanel.add("Sales", new SalesPage(username, this));
displayPanel.add("Purchase", new PurchasePage(this));
displayPanel.add("Category", new CategoryPage());

setTitle("Inventory Manager");
setVisible(true);
}

public void addHomePage(){
    layout.show(displayPanel, "Home");
}
public void addUsersPage() {
    layout.show(displayPanel, "Users");
}
public void addCustPage() {
    layout.show(displayPanel, "Customers");
}
public void addProdPage() {
    layout.show(displayPanel, "Products");
}
public void addSuppPage() {
    layout.show(displayPanel, "Suppliers");
}
public void addCatPage() {
    layout.show(displayPanel, "Category");
}

```

```

}
public void addSalesPage() {
    layout.show(displayPanel, "Sales");
}
public void addPurchasePage() {
    layout.show(displayPanel, "Purchase");
}
public void addLogsPage() {
    layout.show(displayPanel, "Logs");
}

/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    mainPanel = new javax.swing.JPanel();
    menuPanel = new javax.swing.JPanel();
    menuButton = new javax.swing.JButton();
    navPanel = new javax.swing.JPanel();
    prodButton = new javax.swing.JButton();
    custButton = new javax.swing.JButton();
    suppButton = new javax.swing.JButton();
    salesButton = new javax.swing.JButton();
    usersButton = new javax.swing.JButton();
    purchaseButton = new javax.swing.JButton();
    prodButton1 = new javax.swing.JButton();
    displayPanel = new javax.swing.JPanel();
    userPanel = new javax.swing.JPanel();
    nameLabel = new javax.swing.JLabel();
    logoutButton = new javax.swing.JButton();
    nameLabel1 = new javax.swing.JLabel();
    jMenuBar1 = new javax.swing.JMenuBar();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    setTitle("Inventory Manager");
    setBounds(new java.awt.Rectangle(400, 100, 0, 0));

    menuPanel.setPreferredSize(new java.awt.Dimension(120, 26));

```



```

        menuButton.setFont(new java.awt.Font("Segoe UI", 1, 14)); // NOI18N
        menuButton.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/com/inventory/UI/Icons/menu_icon_150667.png")); // NOI18N
        menuButton.setText("MENU");
        menuButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
        menuButton.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                menuButtonActionPerformed(evt);
            }
        });

        javax.swing.GroupLayout menuPanelLayout = new javax.swing.GroupLayout(menuPanel);
        menuPanel.setLayout(menuPanelLayout);
        menuPanelLayout.setHorizontalGroup(
            menuPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(menuButton, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        );
        menuPanelLayout.setVerticalGroup(
            menuPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(menuPanelLayout.createSequentialGroup()
                    .addComponent(menuButton, javax.swing.GroupLayout.PREFERRED_SIZE, 52,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addContainerGap())
        );

        navPanel.setBorder(new
javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));

        prodButton.setText("Products");
        prodButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
        prodButton.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                prodButtonActionPerformed(evt);
            }
        });

        custButton.setText("Customers");
        custButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
        custButton.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                custButtonActionPerformed(evt);
            }
        });

```

```
});
```

```
suppButton.setText("Suppliers");  
suppButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));  
suppButton.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        suppButtonActionPerformed(evt);  
    }  
});
```

```
salesButton.setText("Sales");  
salesButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));  
salesButton.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        salesButtonActionPerformed(evt);  
    }  
});
```

```
usersButton.setText("Users");  
usersButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));  
usersButton.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        usersButtonActionPerformed(evt);  
    }  
});
```

```
purchaseButton.setText("Restock");  
purchaseButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));  
purchaseButton.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        purchaseButtonActionPerformed(evt);  
    }  
});
```

```
prodButton1.setText("Categories");  
prodButton1.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));  
prodButton1.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        prodButton1ActionPerformed(evt);  
    }  
});
```

```
javax.swing.GroupLayout navPanelLayout = new javax.swing.GroupLayout(navPanel);  
navPanel.setLayout(navPanelLayout);
```

```

        navPanelLayout.setHorizontalGroup(
            navPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(navPanelLayout.createSequentialGroup())
                .addContainerGap()

            .addGroup(navPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                )
                .addComponent(prodButton, javax.swing.GroupLayout.DEFAULT_SIZE,
                    javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(custButton, javax.swing.GroupLayout.DEFAULT_SIZE, 107,
                    Short.MAX_VALUE)
                .addComponent(suppButton, javax.swing.GroupLayout.DEFAULT_SIZE,
                    javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(salesButton, javax.swing.GroupLayout.DEFAULT_SIZE,
                    javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(usersButton, javax.swing.GroupLayout.DEFAULT_SIZE,
                    javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(purchaseButton, javax.swing.GroupLayout.DEFAULT_SIZE,
                    javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(prodButton1, javax.swing.GroupLayout.Alignment.TRAILING,
                    javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
                    Short.MAX_VALUE))
                .addContainerGap())
        );
        navPanelLayout.setVerticalGroup(
            navPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(navPanelLayout.createSequentialGroup())
                .addContainerGap()
                .addComponent(prodButton, javax.swing.GroupLayout.PREFERRED_SIZE, 35,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
                .addComponent(prodButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 35,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
                .addComponent(custButton, javax.swing.GroupLayout.PREFERRED_SIZE, 35,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
                .addComponent(suppButton, javax.swing.GroupLayout.PREFERRED_SIZE, 35,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
                .addComponent(salesButton, javax.swing.GroupLayout.PREFERRED_SIZE, 35,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
        );

```

```

        .addComponent(purchaseButton, javax.swing.GroupLayout.PREFERRED_SIZE, 35,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(usersButton, javax.swing.GroupLayout.PREFERRED_SIZE, 35,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(130, Short.MAX_VALUE))
    );

    displayPanel.setLayout(new java.awt.CardLayout());

    nameLabel.setFont(new java.awt.Font("Segoe UI Black", 0, 12)); // NOI18N
    nameLabel.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/com/inventory/UI/Icons/user_icon_150670.png
"))); // NOI18N
    nameLabel.setText("User: ");
    nameLabel.setVerticalAlignment(javax.swing.SwingConstants.TOP);

    logoutButton.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/com/inventory/UI/Icons/log-out_icon-icons.co
m_50106.png"))); // NOI18N
    logoutButton.setText("Sign out");
    logoutButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
    logoutButton.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            logoutButtonActionPerformed(evt);
        }
    });

    nameLabel1.setFont(new java.awt.Font("Segoe UI Black", 0, 12)); // NOI18N
    nameLabel1.setText("PRADOR COMPANY LTD.");
    nameLabel1.setVerticalAlignment(javax.swing.SwingConstants.TOP);

    javax.swing.GroupLayout userPanelLayout = new javax.swing.GroupLayout(userPanel);
    userPanel.setLayout(userPanelLayout);
    userPanelLayout.setHorizontalGroup(
        userPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(userPanelLayout.createSequentialGroup()
                .addContainerGap(11, Short.MAX_VALUE)
                .addComponent(nameLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 317,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(nameLabel, javax.swing.GroupLayout.PREFERRED_SIZE, 317,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

```

```

        .addComponent(logoutButton))
    );
    userPanelLayout.setVerticalGroup(
        userPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(userPanelLayout.createSequentialGroup())

.addGroup(userPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
        .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
userPanelLayout.createSequentialGroup())
        .addContainerGap()

.addGroup(userPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(nameLabel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(nameLabel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
        .addComponent(logoutButton, javax.swing.GroupLayout.PREFERRED_SIZE, 36,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(0, 16, Short.MAX_VALUE))
    );

    javax.swing.GroupLayout mainPanelLayout = new javax.swing.GroupLayout(mainPanel);
    mainPanel.setLayout(mainPanelLayout);
    mainPanelLayout.setHorizontalGroup(
        mainPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(mainPanelLayout.createSequentialGroup())

.addGroup(mainPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
        .addComponent(navPanel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(menuPanel, javax.swing.GroupLayout.DEFAULT_SIZE, 125,
Short.MAX_VALUE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(mainPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(displayPanel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(userPanel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
    );

```

```

        mainPanelLayout.setVerticalGroup(
            mainPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(mainPanelLayout.createSequentialGroup()
                    .addComponent(userPanel, javax.swing.GroupLayout.DEFAULT_SIZE,
                        javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(menuPanel, javax.swing.GroupLayout.PREFERRED_SIZE, 50,
                        javax.swing.GroupLayout.PREFERRED_SIZE))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

            .addGroup(mainPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                .addComponent(displayPanel, javax.swing.GroupLayout.DEFAULT_SIZE,
                    javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(navPanel, javax.swing.GroupLayout.DEFAULT_SIZE,
                    javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );

        setJMenuBar(jMenuBar1);

        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(
                    mainPanel, javax.swing.GroupLayout.DEFAULT_SIZE,
                    javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(
                    mainPanel, javax.swing.GroupLayout.DEFAULT_SIZE,
                    javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        );

        pack();
    } // </editor-fold>

    private void logoutButtonActionPerformed(java.awt.event.ActionEvent evt) {
        int opt = JOptionPane.showConfirmDialog(
            null,
            "<html>Are you sure you want to logout?<br>You will have to login again.</html>",
            "Confirmation",

```

```

        JOptionPane.YES_NO_OPTION);
    if (opt==JOptionPane.YES_OPTION){
        dispose();
        LoginPage logPage = new LoginPage();
        logPage.setVisible(true);
    }
}

private void usersButtonActionPerformed(java.awt.event.ActionEvent evt) {
    addUsersPage();
}

private void salesButtonActionPerformed(java.awt.event.ActionEvent evt) {
    addSalesPage();
}

private void suppButtonActionPerformed(java.awt.event.ActionEvent evt) {
    addSuppPage();
}

private void custButtonActionPerformed(java.awt.event.ActionEvent evt) {
    addCustPage();
}

private void prodButtonActionPerformed(java.awt.event.ActionEvent evt) {
    addProdPage();
}

private void menuButtonActionPerformed(java.awt.event.ActionEvent evt) {
    navPanel.setVisible(!navPanel.isVisible());
}

private void purchaseButtonActionPerformed(java.awt.event.ActionEvent evt) {
    addPurchasePage();
}

private void prodButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    addCatPage();
}

// Allows only admins to view users and restock
public void notForEmployee(){
    navPanel.remove(usersButton);
    navPanel.remove(purchaseButton);
}

```

```

}

// Variables declaration - do not modify
private javax.swing.JButton custButton;
private javax.swing.JPanel displayPanel;
private javax.swing.JMenuBar jMenuBar1;
private javax.swing.JButton logoutButton;
private javax.swing.JPanel mainPanel;
private javax.swing.JButton menuButton;
private javax.swing.JPanel menuPanel;
private javax.swing.JLabel nameLabel;
private javax.swing.JLabel nameLabel1;
private javax.swing.JPanel navPanel;
private javax.swing.JButton prodButton;
private javax.swing.JButton prodButton1;
private javax.swing.JButton purchaseButton;
private javax.swing.JButton salesButton;
private javax.swing.JButton suppButton;
private javax.swing.JPanel userPanel;
private javax.swing.JButton usersButton;
// End of variables declaration
}

```

## **Homepage.Java**

```
package com.inventory.UI;
```

```

public class HomePage extends javax.swing.JPanel {

    /**
     * Creates new form HomePage
     */
    public HomePage(String username) {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

```



```

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(this);
this.setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGap(0, 493, Short.MAX_VALUE)
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGap(0, 373, Short.MAX_VALUE)
);
} // </editor-fold>

```

```

// Variables declaration - do not modify
// End of variables declaration
}

```

### **ProductPage.Java**

```
package com.inventory.UI;
```

```

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
import net.proteanit.sql.DbUtils;
import java.sql.SQLException;

```

```
public class ProductPage extends javax.swing.JPanel {
```

```

    Connection Con = null;
    ResultSet Rs=null;
    Statement st =null;

```

```
Dashboard dashboard;
```

```

public ProductPage(String username, Dashboard dashboard){
    initComponents();
    this.dashboard = dashboard;
    loadDataSet();
    getCategory();
}

```

```

        getSupplier();
        Connection();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jSeparator1 = new javax.swing.JSeparator();
        entryPanel = new javax.swing.JPanel();
        suppCombo = new javax.swing.JComboBox<>();
        addSuppButton = new javax.swing.JButton();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        codeText = new javax.swing.JTextField();
        nameText = new javax.swing.JTextField();
        costText = new javax.swing.JTextField();
        addButton = new javax.swing.JButton();
        editButton = new javax.swing.JButton();
        deleteButton = new javax.swing.JButton();
        clearButton = new javax.swing.JButton();
        jLabel10 = new javax.swing.JLabel();
        CatCb = new javax.swing.JComboBox<>();
        addCat = new javax.swing.JButton();
        jLabel11 = new javax.swing.JLabel();
        jLabel12 = new javax.swing.JLabel();
        qtytext = new javax.swing.JTextField();
        restockqty = new javax.swing.JTextField();
        jScrollPane1 = new javax.swing.JScrollPane();
        productTable = new javax.swing.JTable();
        refreshButton = new javax.swing.JButton();

        jLabel1.setFont(new java.awt.Font("Impact", 0, 24)); // NOI18N
        jLabel1.setText("PRODUCTS");

        entryPanel.setBorder(javax.swing.BorderFactory.createTitledBorder("Enter Product
Details"));

```

```
    suppCombo.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Select a  
supplier" }));
```

```
    suppCombo.setToolTipText("Select a supplier");
```

```
    addSuppButton.setText("Click to add a New Supplier");
```

```
    addSuppButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
    addSuppButton.addActionListener(new java.awt.event.ActionListener() {
```

```
        public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
            addSuppButtonActionPerformed(evt);
```

```
        }
```

```
    });
```

```
    jLabel2.setText("Product Code:");
```

```
    jLabel3.setText("Product Name:");
```

```
    jLabel6.setText("Price:");
```

```
    addButton.setText("Add");
```

```
    addButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
    addButton.addActionListener(new java.awt.event.ActionListener() {
```

```
        public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
            addButtonActionPerformed(evt);
```

```
        }
```

```
    });
```

```
    editButton.setText("Edit");
```

```
    editButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
    editButton.addActionListener(new java.awt.event.ActionListener() {
```

```
        public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
            editButtonActionPerformed(evt);
```

```
        }
```

```
    });
```

```
    deleteButton.setText("Delete");
```

```
    deleteButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
    deleteButton.addActionListener(new java.awt.event.ActionListener() {
```

```
        public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
            deleteButtonActionPerformed(evt);
```

```
        }
```

```
    });
```

```
    clearButton.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
```

```

clearButton.setText("CLEAR");
clearButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
clearButton.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        clearButtonActionPerformed(evt);
    }
});

```

```

jLabel10.setText("Category:");

```

```

addCat.setText("Click to add a New Category");
addCat.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
addCat.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        addCatActionPerformed(evt);
    }
});

```

```

jLabel11.setText("Quantity:");

```

```

jLabel12.setText("Restock Qty:");

```

```

javax.swing.GroupLayout entryPanelLayout = new javax.swing.GroupLayout(entryPanel);
entryPanel.setLayout(entryPanelLayout);
entryPanelLayout.setHorizontalGroup(
    entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(entryPanelLayout.createSequentialGroup()
            .addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addContainerGap()

```

```

                .addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(clearButton, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(suppCombo, 0, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                    .addComponent(addSuppButton, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                )
            .addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 84,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(codeText))
            .addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

```

```

        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 84,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(nameText))
    .addGroup(entryPanelLayout.createSequentialGroup())
    .addComponent(addButton)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(editButton, javax.swing.GroupLayout.PREFERRED_SIZE, 78,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(deleteButton, javax.swing.GroupLayout.DEFAULT_SIZE, 75,
Short.MAX_VALUE))
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
entryPanelLayout.createSequentialGroup())
    .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 84,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(costText))
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
entryPanelLayout.createSequentialGroup())
    .addComponent(jLabel10, javax.swing.GroupLayout.PREFERRED_SIZE, 84,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(CatCb, 0, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
    .addComponent(addCat, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addGroup(entryPanelLayout.createSequentialGroup())
    .addComponent(jLabel12, javax.swing.GroupLayout.PREFERRED_SIZE, 84,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(restockqty))
    .addGroup(entryPanelLayout.createSequentialGroup())
    .addComponent(jLabel11, javax.swing.GroupLayout.PREFERRED_SIZE, 84,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(qtytext)))
    .addContainerGap()
);
entryPanelLayout.setVerticalGroup(
    entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(entryPanelLayout.createSequentialGroup())
    .addContainerGap()

```

```

        .addComponent(suppCombo, javax.swing.GroupLayout.PREFERRED_SIZE, 31,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(addSuppButton, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
NE)
        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(codeText, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
NE)
        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(nameText, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
NE)
        .addComponent(costText, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
NE)
        .addComponent(jLabel10, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(CatCb, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
NE)
        .addComponent(jLabel11, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

        .addComponent(qtytext, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(entryPanelLayout.createSequentialGroup()
            .addGap(2, 2, 2)
            .addComponent(jLabel12, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(entryPanelLayout.createSequentialGroup()
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(restockqty, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(addCat, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

        .addComponent(addButton)
        .addComponent(editButton)
        .addComponent(deleteButton)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(clearButton)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
);

productTable.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null}
    },
    new String [] {
        "Title 1", "Title 2", "Title 3", "Title 4"
    }
));
productTable.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
productTable.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        productTableMouseClicked(evt);
    }
}

```

```

});
jScrollPane1.setViewportViewView(productTable);

refreshButton.setFont(new java.awt.Font("Segoe UI", 1, 12)); // NOI18N
refreshButton.setText("REFRESH");
refreshButton.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        refreshButtonActionPerformed(evt);
    }
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(this);
this.setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .add(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .add(jLabel1)
                .add(refreshButton)
                .add(jSeparator1))
            .addContainerGap())
        .addGroup(layout.createSequentialGroup()
            .add(jScrollPane1)
            .addContainerGap())
        .addGroup(layout.createSequentialGroup()
            .add(entryPanel)
            .addContainerGap())
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .add(jLabel1)
            .add(refreshButton)
            .add(jSeparator1))
            .addContainerGap());
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .add(jLabel1)
            .add(refreshButton)
            .add(jSeparator1)
            .add(jScrollPane1)
            .add(entryPanel)
            .add(jLabel1)
            .add(refreshButton)
            .add(jSeparator1)
            .addContainerGap())
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .add(jScrollPane1)
            .add(entryPanel)
            .add(jLabel1)
            .add(refreshButton)
            .add(jSeparator1))
            .addContainerGap());

```



```

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup())
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addComponent(refreshButton, javax.swing.GroupLayout.PREFERRED_SIZE,
29, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)))
        .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
        .addComponent(entryPanel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 0,
Short.MAX_VALUE))
        .addGap(64, 64, 64))
    );
} // </editor-fold>

```

```

private void Connection(){ //Method To Connect to Database
    try{
        Class.forName("com.mysql.jdbc.Driver"); //Get The JDBC Driver
        Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/inventory","root","root");
        //Connect to Database using credentials
    }catch(ClassNotFoundException e){ //Catch Error for missing Driver
        JOptionPane.showMessageDialog(this, "Driver not Found");
    }catch(SQLException e){ //Catch Error for database connection
        JOptionPane.showMessageDialog(this, "Failed to Connect to Database");
    }
}
}

```

```

private void editButtonActionPerformed(java.awt.event.ActionEvent evt) {
if (codeText.getText().isEmpty()) {
    JOptionPane.showMessageDialog(this, "Please select a product to edit.");
}

else {

```

```

try {
    String Query = "Update products set productname=?, costprice=?, productcat=?,
productsup=?, productqty=?, restockqty=? where pid=?";
    PreparedStatement Update = Con.prepareStatement(Query);

    Update.setString(7, codeText.getText());
    Update.setString(1, nameText.getText());
    Update.setString(3, CatCb.getSelectedItem().toString());
    Update.setDouble(2, Double.valueOf(costText.getText()));
    Update.setString(4, suppCombo.getSelectedItem().toString());
    Update.setInt(5, Integer.valueOf(qtytext.getText()));
    Update.setInt(6, Integer.valueOf(restockqty.getText()));

    Update.executeUpdate();

    JOptionPane.showMessageDialog(this, "Product updated!");
    loadDataSet();

}
catch(Exception e) {
    JOptionPane.showMessageDialog(this, e);
}
}

private void addButtonActionPerformed(java.awt.event.ActionEvent evt) {
if(codeText.getText().isEmpty() && nameText.getText().isEmpty()){
    JOptionPane.showMessageDialog(this, "Missing Info, Please enter again");
    //Validation Presence Check
}

else{
    try{
        PreparedStatement Save = Con.prepareStatement("insert into Products
Values(?,?,?,?,?,?,?)");
        //Parameterized Query to Add into all Columns in Products Table
        Save.setInt(1, Integer.valueOf(codeText.getText()));
        Save.setString(2, nameText.getText());
        Save.setString(3, costText.getText());
        Save.setString(4, CatCb.getSelectedItem().toString());
        Save.setString(5, suppCombo.getSelectedItem().toString());
        Save.setString(6, qtytext.getText());
        Save.setString(7, restockqty.getText());
    }
}
}

```

```

//Fetch All Data from textfields and input boxes

int row = Save.executeUpdate();
//Execute query
JOptionPane.showMessageDialog(this, "Item Added");
//Success Message
loadDataSet();
//Refresh Table on GUI to Display new entry

} catch(Exception Ex){
    JOptionPane.showMessageDialog(this, Ex);
}
}
}

private void deleteButtonActionPerformed(java.awt.event.ActionEvent evt) {
if(codeText.getText().isEmpty()){

    JOptionPane.showMessageDialog(this, "Select a Product to delete");

}
else{
    try {
        String Query = "Delete from products where pid="+codeText.getText();
        Statement Del = Con.createStatement();
        Del.executeUpdate(Query);
        JOptionPane.showMessageDialog(this, "Product Deleted");
        loadDataSet();

    }
    catch (Exception e) {
        JOptionPane.showMessageDialog(this, e);
    }
}
}
// Clear all boxes
private void clearButtonActionPerformed(java.awt.event.ActionEvent evt) {
    codeText.setText("");
    nameText.setText("");
    costText.setText("");

```

```

        qtytext.setText("");
        restockqty.setText("");
    }

    //static String productName;
    private void productTableMouseClicked(java.awt.event.MouseEvent evt) {
        DefaultTableModel model = (DefaultTableModel)productTable.getModel();
        int MyIndex = productTable.getSelectedRow();

        codeText.setText(model.getValueAt(MyIndex, 0).toString());
        nameText.setText(model.getValueAt(MyIndex, 1).toString());
        costText.setText(model.getValueAt(MyIndex, 2).toString());
        CatCb.setSelectedItem(model.getValueAt(MyIndex, 3).toString());
        suppCombo.setSelectedItem(model.getValueAt(MyIndex, 4).toString());
        qtytext.setText(model.getValueAt(MyIndex, 5).toString());
        restockqty.setText(model.getValueAt(MyIndex, 6).toString());
    }

    private void addSuppButtonActionPerformed(java.awt.event.ActionEvent evt) {
        dashboard.addSuppPage();
    }

    private void refreshButtonActionPerformed(java.awt.event.ActionEvent evt) {
        loadDataSet();
        getCategory();
        getSupplier();
        clearButtonActionPerformed(evt);
    }

    private void addCatActionPerformed(java.awt.event.ActionEvent evt) {
        dashboard.addCatPage();
    }

    // Method to update combo box containing supplier names
    public void getCategory() {
        CatCb.removeAllItems();
        //Clear Category ComboBox To Avoid Duplicate Entries
        try {
            st = Con.createStatement();
            String Query = "Select * from categories";
            //Select All Columns from Category Table
            Rs = st.executeQuery(Query);
            while (Rs.next()){
                String CatName = Rs.getString("categoryname");
            }
        }
    }

```

```

        CatCb.addItem(CatName);
        //Add all returned Category names to Category Combo Box
    }
}
catch (Exception e){
}
}

public void getSupplier() {
    suppCombo.removeAllItems();
    try {

        st = Con.createStatement();
        String Query = "Select * from suppliers";
        Rs = st.executeQuery(Query);
        while (Rs.next()){
            String suppname = Rs.getString("fullname");
            suppCombo.addItem(suppname);
        }
    }
    catch (Exception e){
    }
}

// Method to load data into table
public void loadDataSet() {
    try {
        Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/inventory","root","root");
        st = Con.createStatement(); //Create Statement
        Rs = st.executeQuery("select * from Products");
        // Select All Columns from Product Table
        productTable.setModel(DbUtils.resultSetToTableModel(Rs));
        // Add ResultSet data to Product Table on GUI
    }
    catch(Exception e){
        e.printStackTrace();
    }
}

// Variables declaration - do not modify
private javax.swing.JComboBox<String> CatCb;

```

```

private javax.swing.JButton addButton;
private javax.swing.JButton addCat;
private javax.swing.JButton addSuppButton;
private javax.swing.JButton clearButton;
private javax.swing.JTextField codeText;
private javax.swing.JTextField costText;
private javax.swing.JButton deleteButton;
private javax.swing.JButton editButton;
private javax.swing.JPanel entryPanel;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel10;
private javax.swing.JLabel jLabel11;
private javax.swing.JLabel jLabel12;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel6;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JSeparator jSeparator1;
private javax.swing.JTextField nameText;
private javax.swing.JTable productTable;
private javax.swing.JTextField qtytext;
private javax.swing.JButton refreshButton;
private javax.swing.JTextField restockqty;
private javax.swing.JComboBox<String> suppCombo;
// End of variables declaration
}

```

### **CategoryPage.Java**

```

package com.inventory.UI;

```

```

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
import net.proteanit.sql.DbUtils;
import java.sql.SQLException;

```

```

public class CategoryPage extends javax.swing.JPanel {

```

```

    Connection Con = null;

```

```
ResultSet Rs=null;
Statement st =null;
```

```
public CategoryPage(){
    initComponents();
    loadDataSet();
    Connection();
}
```

```
/**
```

```
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
```

```
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {
```

```
    jLabel1 = new javax.swing.JLabel();
    jSeparator1 = new javax.swing.JSeparator();
    entryPanel = new javax.swing.JPanel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    codeText = new javax.swing.JTextField();
    nameText = new javax.swing.JTextField();
    addButton = new javax.swing.JButton();
    editButton = new javax.swing.JButton();
    deleteButton = new javax.swing.JButton();
    clearButton = new javax.swing.JButton();
    jScrollPane1 = new javax.swing.JScrollPane();
    productTable = new javax.swing.JTable();
    refreshButton = new javax.swing.JButton();
```

```
    jLabel1.setFont(new java.awt.Font("Impact", 0, 24)); // NOI18N
    jLabel1.setText("CATEGORY");
```

```
    entryPanel.setBorder(javax.swing.BorderFactory.createTitledBorder("Enter Product
Details"));
```

```
    jLabel2.setText("Category Code:");
```





```

        .addComponent(clearButton, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addGroup(entryPanelLayout.createSequentialGroup())
        .addComponent(addButton)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(editButton, javax.swing.GroupLayout.PREFERRED_SIZE, 78,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(deleteButton, javax.swing.GroupLayout.DEFAULT_SIZE, 113,
Short.MAX_VALUE)))
        .addContainerGap()
        .addGroup(entryPanelLayout.createSequentialGroup())

        .addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
        .addComponent(jLabel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jLabel3, javax.swing.GroupLayout.DEFAULT_SIZE, 115,
Short.MAX_VALUE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

        .addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
        .addComponent(codeText, javax.swing.GroupLayout.DEFAULT_SIZE, 125,
Short.MAX_VALUE)
        .addComponent(nameText)))
    );
    entryPanelLayout.setVerticalGroup(
        entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(entryPanelLayout.createSequentialGroup()
        .addGap(15, 15, 15)

        .addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(codeText, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

        .addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(nameText, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    );
}

```

```

        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(nameText, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(236, 236, 236)

.addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

        .addComponent(addButton)
        .addComponent(editButton)
        .addComponent(deleteButton))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(clearButton)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
);

productTable.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null}
    },
    new String [] {
        "Title 1", "Title 2", "Title 3", "Title 4"
    }
));
productTable.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
productTable.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        productTableMouseClicked(evt);
    }
});
jScrollPane1.setViewportViewView(productTable);

refreshButton.setFont(new java.awt.Font("Segoe UI", 1, 12)); // NOI18N
refreshButton.setText("REFRESH");
refreshButton.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        refreshButtonActionPerformed(evt);
    }
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(this);

```

```

        this.setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup())
                    .addContainerGap()

                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(layout.createSequentialGroup())
                        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 126,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                        .addComponent(refreshButton))
                    .addComponent(jSeparator1)
                    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup())
                        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                        .addComponent(entryPanel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
                    .addContainerGap())
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup())

                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(layout.createSequentialGroup())
                        .addContainerGap()
                        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 41,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup())
                        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                        .addComponent(refreshButton, javax.swing.GroupLayout.PREFERRED_SIZE,
29, javax.swing.GroupLayout.PREFERRED_SIZE)

                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)))
                    .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
            .addComponent(entryPanel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 0,
Short.MAX_VALUE))
        .addGap(64, 64, 64))
    );
} // </editor-fold>

```

```

private void Connection(){ //Method To Connect to Database
try{
    Class.forName("com.mysql.jdbc.Driver"); //Get The JDBC Driver
    Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/inventory","root","root");
    //Connect to Database using credentials
}catch(ClassNotFoundException e){ //Catch Error for missing Driver
    JOptionPane.showMessageDialog(this, "Driver not Found");
}catch(SQLException e){ //Catch Error for database connection
    JOptionPane.showMessageDialog(this, "Failed to Connect to Database");
}
}
}

```

```

private void editButtonActionPerformed(java.awt.event.ActionEvent evt) {
if(codeText.getText().isEmpty()) {
    JOptionPane.showMessageDialog(this, "Select a Category to Edit");
}
else {
    try {
        String Query = "Update categories set categoryname=? where idcategories=?";
        PreparedStatement Edit = Con.prepareStatement(Query);
        Edit.setInt(2, Integer.valueOf(codeText.getText()));
        Edit.setString(1, nameText.getText());

        int row = Edit.executeUpdate();
        JOptionPane.showMessageDialog(this, "Category Updated");
        loadDataSet();

    }
}
}

```

```

        catch (Exception e) {

        }
    }
}

private void addButtonActionPerformed(java.awt.event.ActionEvent evt) {
if(codeText.getText().isEmpty()&&nameText.getText().isEmpty()){
    JOptionPane.showMessageDialog(this, "Missing Info, Please enter again");
}
else if(codeText.getText().length() != 4){
    JOptionPane.showMessageDialog(this, " ID must be 4 Digits, Please enter again");

}
else{
    try{
        PreparedStatement Save = Con.prepareStatement("insert into categories
Values(?,?)");
        Save.setInt(1, Integer.valueOf(codeText.getText()));
        Save.setString(2, nameText.getText());

        int row = Save.executeUpdate();
        JOptionPane.showMessageDialog(this, "Category Added");
        loadDataSet();

    } catch(Exception Ex){
        JOptionPane.showMessageDialog(this, Ex);

    }
}

}

private void deleteButtonActionPerformed(java.awt.event.ActionEvent evt) {
if(codeText.getText().isEmpty()){

    JOptionPane.showMessageDialog(this, "Select a Category to delete");

}
else{
    try {
        String Query = "Delete from categories where idcategories="+codeText.getText();
        Statement Del = Con.createStatement();
        Del.executeUpdate(Query);
        JOptionPane.showMessageDialog(this, "Category Deleted");
    }
}
}

```

```

        loadDataSet();

    }
    catch (Exception e) {
        JOptionPane.showMessageDialog(this, e);
    }

}

}
// Clear all boxes
private void clearButtonActionPerformed(java.awt.event.ActionEvent evt) {
    codeText.setText("");
    nameText.setText("");

}

private void productTableMouseClicked(java.awt.event.MouseEvent evt) {
    DefaultTableModel model = (DefaultTableModel)productTable.getModel();
    int MyIndex = productTable.getSelectedRow();

    codeText.setText(model.getValueAt(MyIndex, 0).toString());
    nameText.setText(model.getValueAt(MyIndex, 1).toString());
}

private void refreshButtonActionPerformed(java.awt.event.ActionEvent evt) {
    loadDataSet();
    clearButtonActionPerformed(evt);
}

// Method to load data into table
public void loadDataSet() {
    try {
        Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/inventory","root","root");
        st = Con.createStatement();
        Rs = st.executeQuery("select * from categories");
        productTable.setModel(DbUtils.resultSetToTableModel(Rs));
    }
    catch(Exception e){
        e.printStackTrace();
    }

}

```

```

// Variables declaration - do not modify
private javax.swing.JButton addButton;
private javax.swing.JButton clearButton;
private javax.swing.JTextField codeText;
private javax.swing.JButton deleteButton;
private javax.swing.JButton editButton;
private javax.swing.JPanel entryPanel;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JSeparator jSeparator1;
private javax.swing.JTextField nameText;
private javax.swing.JTable productTable;
private javax.swing.JButton refreshButton;
// End of variables declaration
}

```

## **CustomerPage.Java**

```
package com.inventory.UI;
```

```

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import javax.swing.*;
import java.sql.SQLException;
import java.sql.Statement;
import javax.swing.table.DefaultTableModel;
import net.proteanit.sql.DbUtils;

```

```

public class CustomerPage extends javax.swing.JPanel {
    Connection Con = null;
    ResultSet Rs,Rs1=null;
    Statement st,st1 =null;

    public CustomerPage() {
        initComponents();
        loadDataSet();
        Connection();
    }
}

```

```

}

/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jLabel1 = new javax.swing.JLabel();
    jSeparator1 = new javax.swing.JSeparator();
    entryPanel = new javax.swing.JPanel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    jLabel5 = new javax.swing.JLabel();
    jLabel6 = new javax.swing.JLabel();
    phoneText = new javax.swing.JTextField();
    locationText = new javax.swing.JTextField();
    codeText = new javax.swing.JTextField();
    nameText = new javax.swing.JTextField();
    debitText = new javax.swing.JTextField();
    addButton = new javax.swing.JButton();
    editButton = new javax.swing.JButton();
    deleteButton = new javax.swing.JButton();
    clearButton = new javax.swing.JButton();
    costtext = new javax.swing.JTextField();
    jLabel7 = new javax.swing.JLabel();
    jScrollPane1 = new javax.swing.JScrollPane();
    custTable = new javax.swing.JTable();

    jLabel1.setFont(new java.awt.Font("Impact", 0, 24)); // NOI18N
    jLabel1.setText("CUSTOMERS");

    entryPanel.setBorder(javax.swing.BorderFactory.createTitledBorder("Enter Customer
Details"));

    jLabel2.setText("Customer Code:");

    jLabel3.setText("Full Name:");

    jLabel4.setText("Location:");

```



```
jLabel5.setText("Contact:");

jLabel6.setText("Amount Paid:");

debitText.setEditable(false);

addButton.setText("Add");
addButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
addButton.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        addButtonActionPerformed(evt);
    }
});

editButton.setText("Edit");
editButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
editButton.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        editButtonActionPerformed(evt);
    }
});

deleteButton.setText("Delete");
deleteButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
deleteButton.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        deleteButtonActionPerformed(evt);
    }
});

clearButton.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
clearButton.setText("CLEAR");
clearButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
clearButton.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        clearButtonActionPerformed(evt);
    }
});

costtext.setEditable(false);

jLabel7.setText("Number of Orders:");
```

```

javax.swing.GroupLayout entryPanelLayout = new javax.swing.GroupLayout(entryPanel);
entryPanel.setLayout(entryPanelLayout);
entryPanelLayout.setHorizontalGroup(
    entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(entryPanelLayout.createSequentialGroup()
            .addContainerGap()

.addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(clearButton, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addGroup(entryPanelLayout.createSequentialGroup()
            .addComponent(addButton)
            .addPreferredGap(javax.swing.GroupLayout.Alignment.RELATED)
            .addComponent(editButton)
            .addPreferredGap(javax.swing.GroupLayout.Alignment.RELATED)
            .addComponent(deleteButton)
            .addGap(0, 37, Short.MAX_VALUE))
        .addGroup(entryPanelLayout.createSequentialGroup()

.addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(entryPanelLayout.createSequentialGroup()
        .addComponent(jLabel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jLabel4, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jLabel5, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jLabel6, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jLabel3, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addComponent(jLabel7, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addPreferredGap(javax.swing.GroupLayout.Alignment.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(debitText, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, 160, Short.MAX_VALUE)

```

```

        .addComponent(codeText, javax.swing.GroupLayout.Alignment.TRAILING)
        .addComponent(nameText, javax.swing.GroupLayout.Alignment.TRAILING)
        .addComponent(locationText, javax.swing.GroupLayout.Alignment.TRAILING)
        .addComponent(phoneText, javax.swing.GroupLayout.Alignment.TRAILING)
        .addComponent(costtext))))
    .addContainerGap()
);
entryPanelLayout.setVerticalGroup(
    entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(entryPanelLayout.createSequentialGroup()
        .addContainerGap()

.addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 29,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(codeText, javax.swing.GroupLayout.PREFERRED_SIZE, 29,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 29,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(nameText, javax.swing.GroupLayout.PREFERRED_SIZE, 29,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 29,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(locationText, javax.swing.GroupLayout.PREFERRED_SIZE, 29,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 29,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(phoneText, javax.swing.GroupLayout.PREFERRED_SIZE, 29,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

```

```

.addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 29,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(debitText, javax.swing.GroupLayout.PREFERRED_SIZE, 29,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(costtext, javax.swing.GroupLayout.PREFERRED_SIZE, 29,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, 29,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(12, 12, 12)

.addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(addButton)
    .addComponent(editButton)
    .addComponent(deleteButton))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(clearButton, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addContainerGap(18, Short.MAX_VALUE))
);

custTable.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null}
    },
    new String [] {
        "Title 1", "Title 2", "Title 3", "Title 4"
    }
));
custTable.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        custTableMouseClicked(evt);
    }
});

```

```

jScrollPane1.setViewportView(custTable);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(this);
this.setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addComponent(jSeparator1)
            .addGap(122, 122, 122)
            .addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT_SIZE, 408, Short.MAX_VALUE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(entryPanel, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(10, 10, 10)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                .addComponent(entryPanel, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 0, Short.MAX_VALUE)
                .addGap(67, 67, 67))
            .addGap(10, 10, 10))
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(10, 10, 10)
            .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(entryPanel, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 0, Short.MAX_VALUE)
                .addGap(67, 67, 67))
            .addGap(10, 10, 10)
            .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(entryPanel, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addGap(10, 10, 10)
            .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 0, Short.MAX_VALUE)
            .addGap(10, 10, 10)
        )
);
} // </editor-fold>

```

```

private void Connection(){ //Method To Connect to Database
    try{
        Class.forName("com.mysql.jdbc.Driver"); //Get The JDBC Driver
        Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/inventory","root","root");
        //Connect to Database using credentials
    }catch(ClassNotFoundException e){ //Catch Error for missing Driver
        JOptionPane.showMessageDialog(this, "Driver not Found");
    }catch(SQLException e){ //Catch Error for database connection
        JOptionPane.showMessageDialog(this, "Failed to Connect to Database");
    }
}

private void addButtonActionPerformed(java.awt.event.ActionEvent evt) {
    if(codeText.getText().isEmpty()){
        JOptionPane.showMessageDialog(this, "Missing Info, Please enter again");
    }
    else if(codeText.getText().length() != 4){
        JOptionPane.showMessageDialog(this, "ID must be 4 Digits, Please enter again");
    }
    else{
        try{
            PreparedStatement Save = Con.prepareStatement("insert into customers
Values(?,?,?,?)");
            Save.setInt(1, Integer.valueOf(codeText.getText()));
            Save.setString(2, nameText.getText());
            Save.setString(3, locationText.getText());
            Save.setString(4, phoneText.getText());

            int row = Save.executeUpdate();
            JOptionPane.showMessageDialog(this, "Customer Added");
            loadDataSet();

        } catch(Exception Ex){
            JOptionPane.showMessageDialog(this, Ex);
        }
    }
}

private void editButtonActionPerformed(java.awt.event.ActionEvent evt) {

```

```

if (codeText.getText().isEmpty()) {
    JOptionPane.showMessageDialog(this, "Please select a Customer to edit.");
}

else {
    try {
        String Query = "Update customers set fullname=?, location=?, phone=? where cid=?";
        PreparedStatement Update = Con.prepareStatement(Query);

        Update.setString(4, codeText.getText());
        Update.setString(1, nameText.getText());
        Update.setString(2, locationText.getText());
        Update.setString(3, phoneText.getText());

        Update.executeUpdate();

        JOptionPane.showMessageDialog(this, "Customer updated!");
        loadDataSet();

    }
    catch(Exception e) {
        JOptionPane.showMessageDialog(this, e);
    }
}

}

private void deleteButtonActionPerformed(java.awt.event.ActionEvent evt) {
    if(codeText.getText().isEmpty()){

        JOptionPane.showMessageDialog(this, "Select a customer to delete");

    }
    else{
        try {
            String Query = "Delete from customers where cid="+codeText.getText();
            Statement Del = Con.createStatement();
            Del.executeUpdate(Query);
            JOptionPane.showMessageDialog(this, "customer Deleted");
            loadDataSet();

        }
        catch (Exception e) {

```

```

        JOptionPane.showMessageDialog(this, e);
    }

}

private void clearButtonActionPerformed(java.awt.event.ActionEvent evt) {
    codeText.setText("");
    nameText.setText("");
    locationText.setText("");
    phoneText.setText("");

}

private void custTableMouseClicked(java.awt.event.MouseEvent evt) {
    DefaultTableModel model = (DefaultTableModel)custTable.getModel();
    int MyIndex = custTable.getSelectedRow();

    codeText.setText(model.getValueAt(MyIndex, 0).toString());
    nameText.setText(model.getValueAt(MyIndex, 1).toString());
    locationText.setText(model.getValueAt(MyIndex, 2).toString());
    phoneText.setText(model.getValueAt(MyIndex, 3).toString());

    try{
        st = Con.createStatement() ;
        st1 = Con.createStatement();
        Rs = st.executeQuery("select count(*) from salesinfo where
customercode='"+model.getValueAt(MyIndex,0).toString()+"'");
        Rs1 = st1.executeQuery("select sum(revenue) from salesinfo where
customercode='"+model.getValueAt(MyIndex,0).toString()+"'");
        while (Rs.next()){
            costtext.setText(""+Rs.getInt(1));

        }
        while (Rs1.next()){
            debitText.setText(""+Rs1.getInt(1));

        }

    }catch(Exception e){

    }
}

```



```

    }

    public void loadDataSet() {
        try {
            Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/inventory","root","root");
            st = Con.createStatement();
            Rs = st.executeQuery("select * from customers");
            custTable.setModel(DbUtils.resultSetToTableModel(Rs));
        }
        catch(Exception e){
            e.printStackTrace();
        }
    }
}

```

```

// Variables declaration - do not modify
private javax.swing.JButton addButton;
private javax.swing.JButton clearButton;
private javax.swing.JTextField codeText;
private javax.swing.JTextField costtext;
private javax.swing.JTable custTable;
private javax.swing.JTextField debitText;
private javax.swing.JButton deleteButton;
private javax.swing.JButton editButton;
private javax.swing.JPanel entryPanel;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JSeparator jSeparator1;
private javax.swing.JTextField locationText;
private javax.swing.JTextField nameText;
private javax.swing.JTextField phoneText;

```

```
// End of variables declaration  
}
```

## **SupplierPage.Java**

```
package com.inventory.UI;
```

```
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.PreparedStatement;  
import java.sql.ResultSet;  
import javax.swing.*;  
import java.sql.Statement;  
import javax.swing.table.DefaultTableModel;  
import net.proteanit.sql.DbUtils;
```

```
public class SupplierPage extends javax.swing.JPanel {  
    Connection Con = null;  
    ResultSet Rs=null;  
    Statement st =null;  
    public SupplierPage() {  
        initComponents();  
        loadDataSet();  
    }  
}
```

```
/**
```

```
 * This method is called from within the constructor to initialize the form.  
 * WARNING: Do NOT modify this code. The content of this method is always  
 * regenerated by the Form Editor.  
 */
```

```
@SuppressWarnings("unchecked")
```

```
// <editor-fold defaultstate="collapsed" desc="Generated Code">
```

```
private void initComponents() {
```

```
    jLabel1 = new javax.swing.JLabel();  
    jSeparator1 = new javax.swing.JSeparator();  
    jPanel1 = new javax.swing.JPanel();  
    jLabel2 = new javax.swing.JLabel();  
    jLabel3 = new javax.swing.JLabel();  
    jLabel4 = new javax.swing.JLabel();  
    jLabel5 = new javax.swing.JLabel();  
    jLabel6 = new javax.swing.JLabel();  
    codeText = new javax.swing.JTextField();  
    nameText = new javax.swing.JTextField();
```

```
phoneText = new javax.swing.JTextField();
locationText = new javax.swing.JTextField();
emailText = new javax.swing.JTextField();
addButton = new javax.swing.JButton();
deleteButton = new javax.swing.JButton();
editButton = new javax.swing.JButton();
clearButton = new javax.swing.JButton();
jScrollPane1 = new javax.swing.JScrollPane();
suppTable = new javax.swing.JTable();
refreshButton1 = new javax.swing.JButton();

jLabel1.setFont(new java.awt.Font("Impact", 0, 24)); // NOI18N
jLabel1.setText("SUPPLIERS");

jPanel1.setBorder(javax.swing.BorderFactory.createTitledBorder("Enter Supplier Details"));

jLabel2.setText("Supplier Code:");

jLabel3.setText("Full Name:");

jLabel4.setText("Location:");

jLabel5.setText("Contact:");

jLabel6.setText("Email:");

addButton.setText("Add");
addButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
addButton.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        addButtonActionPerformed(evt);
    }
});

deleteButton.setText("Delete");
deleteButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
deleteButton.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        deleteButtonActionPerformed(evt);
    }
});

editButton.setText("Edit");
editButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
editButton.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        editButtonActionPerformed(evt);  
    }  
});  
  
clearButton.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N  
clearButton.setText("CLEAR");  
clearButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));  
clearButton.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        clearButtonActionPerformed(evt);  
    }  
});  
  
javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);  
jPanel1.setLayout(jPanel1Layout);  
jPanel1Layout.setHorizontalGroup(  
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(jPanel1Layout.createSequentialGroup()  
            .add(containerGap)  
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                .addGroup(jPanel1Layout.createSequentialGroup()  
                    .addComponent(clearButton, javax.swing.GroupLayout.DEFAULT_SIZE,  
                        javax.swing.GroupLayout.PREFERRED_SIZE, Short.MAX_VALUE)  
                    .addGroup(jPanel1Layout.createSequentialGroup()  
                        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 89,  
                            javax.swing.GroupLayout.PREFERRED_SIZE)  
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
                        .addComponent(codeText))  
                    .addGroup(jPanel1Layout.createSequentialGroup()  
                        .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 89,  
                            javax.swing.GroupLayout.PREFERRED_SIZE)  
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
                        .addComponent(emailText))  
                    .addGroup(jPanel1Layout.createSequentialGroup()  
                        .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 89,  
                            javax.swing.GroupLayout.PREFERRED_SIZE)  
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
                        .addComponent(phoneText))  
                    .addGroup(jPanel1Layout.createSequentialGroup()  
                        .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 89,  
                            javax.swing.GroupLayout.PREFERRED_SIZE)  
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
```

```

        .addComponent(locationText))
    .addGroup(jPanel1Layout.createSequentialGroup())
        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 89,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(nameText))
    .addGroup(jPanel1Layout.createSequentialGroup())
        .addComponent(addButton, javax.swing.GroupLayout.PREFERRED_SIZE, 78,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(editButton, javax.swing.GroupLayout.DEFAULT_SIZE, 79,
Short.MAX_VALUE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(deleteButton, javax.swing.GroupLayout.PREFERRED_SIZE,
78, javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addContainerGap())
);
jPanel1Layout.setVerticalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup())
            .addContainerGap()

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(codeText, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(nameText, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(locationText, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

```

```

        .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(phoneText, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(emailtext, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(50, 50, 50)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(addButton)
        .addComponent(deleteButton)
        .addComponent(editButton))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(clearButton)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
);

```

```

suppTable.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null}
    },
    new String [] {
        "Title 1", "Title 2", "Title 3", "Title 4"
    }
));
suppTable.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
suppTable.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        suppTableMouseClicked(evt);
    }
});
jScrollPane1.setViewportViewView(suppTable);

```

```

refreshButton1.setFont(new java.awt.Font("Segoe UI", 1, 12)); // NOI18N
refreshButton1.setText("REFRESH");
refreshButton1.addActionListener(new java.awt.event.ActionListener() {

```

```

        public void actionPerformed(java.awt.event.ActionEvent evt) {
            refreshButton1ActionPerformed(evt);
        }
    });

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(this);
    this.setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(refreshButton1)
                    .addGap(17, 17, 17))
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
            .addGroup(layout.createSequentialGroup()
                .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 485, Short.MAX_VALUE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap())
            .addGroup(layout.createSequentialGroup()
                .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 42, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(refreshButton1)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap())
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 485, Short.MAX_VALUE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 42, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(refreshButton1)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap())
    );
}

```

```

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 0,
Short.MAX_VALUE))
    .addContainerGap(31, Short.MAX_VALUE))
);
} // </editor-fold>

```

```

private void suppTableMouseClicked(java.awt.event.MouseEvent evt) {
    DefaultTableModel model = (DefaultTableModel)suppTable.getModel();
    int MyIndex = suppTable.getSelectedRow();

```

```

        codeText.setText(model.getValueAt(MyIndex, 0).toString());
        nameText.setText(model.getValueAt(MyIndex, 1).toString());
        locationText.setText(model.getValueAt(MyIndex, 2).toString());
        phoneText.setText(model.getValueAt(MyIndex, 3).toString());
        emailtext.setText(model.getValueAt(MyIndex, 4).toString());

```

```

    }

```

```

    private void addButtonActionPerformed(java.awt.event.ActionEvent evt) {
if(codeText.getText().isEmpty()){
        JOptionPane.showMessageDialog(this, "Missing Info, Please enter again");
    }
else{
        try{
            Class.forName("com.mysql.jdbc.Driver");

            Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/inventory","root","root");
            PreparedStatement Save = Con.prepareStatement("insert into suppliers
Values(?,?,?,?)");
            Save.setInt(1, Integer.valueOf(codeText.getText()));
            Save.setString(2, nameText.getText());
            Save.setString(3, locationText.getText());
            Save.setString(4, phoneText.getText());
            Save.setString(5, emailtext.getText());

```



```

        int row = Save.executeUpdate();
        JOptionPane.showMessageDialog(this, "Supplier Added");
        Con.close();
        loadDataSet();

    } catch(Exception Ex){
        JOptionPane.showMessageDialog(this, Ex);

    }

}

private void editButtonActionPerformed(java.awt.event.ActionEvent evt) {
    if (codeText.getText().isEmpty()) {
        JOptionPane.showMessageDialog(this, "Please select a Supplier to edit.");
    }

    else {
        try {
            Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/inventory","root","root");
            String Query = "Update suppliers set fullname=?, location=?, mobile=?, email=? where
sid=?";
            PreparedStatement Update = Con.prepareStatement(Query);

            Update.setString(5, codeText.getText());
            Update.setString(1, nameText.getText());
            Update.setString(2, locationText.getText());
            Update.setString(3, phoneText.getText());
            Update.setString(4, emailtext.getText());

            Update.executeUpdate();

            JOptionPane.showMessageDialog(this, "Supplier updated!");
            Con.close();
            loadDataSet();

        }
        catch(Exception e) {
            JOptionPane.showMessageDialog(this, e);
        }
    }
}

```

```

    }

}

private void deleteButtonActionPerformed(java.awt.event.ActionEvent evt) {
if(codeText.getText().isEmpty()){

    JOptionPane.showMessageDialog(this, "Select a Supplier to delete");

}
else{
    try {
        Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/inventory","root","root");
        String Query = "Delete from suppliers where sid="+codeText.getText();
        Statement Del = Con.createStatement();
        Del.executeUpdate(Query);
        JOptionPane.showMessageDialog(this, "Supplier Deleted");
        loadDataSet();

    }
    catch (Exception e) {
        JOptionPane.showMessageDialog(this, e);
    }

}
}

private void clearButtonActionPerformed(java.awt.event.ActionEvent evt) {
    codeText.setText("");
    nameText.setText("");
    locationText.setText("");
    phoneText.setText("");
    emailtext.setText("");
}

private void refreshButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    loadDataSet();
}

public void loadDataSet() {
    try {

```

```

        Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/inventory","root","root");
        st = Con.createStatement();
        Rs = st.executeQuery("select * from suppliers");
        suppTable.setModel(DbUtils.resultSetToTableModel(Rs));
        Con.close();
    }
    catch(Exception e){
        e.printStackTrace();
    }
}

```

```

// Variables declaration - do not modify
private javax.swing.JButton addButton;
private javax.swing.JButton clearButton;
private javax.swing.JTextField codeText;
private javax.swing.JButton deleteButton;
private javax.swing.JButton editButton;
private javax.swing.JTextField emailtext;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JPanel jPanel1;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JSeparator jSeparator1;
private javax.swing.JTextField locationText;
private javax.swing.JTextField nameText;
private javax.swing.JTextField phoneText;
private javax.swing.JButton refreshButton1;
private javax.swing.JTable suppTable;
// End of variables declaration
}

```

### **UsersPage.Java**

```
package com.inventory.UI;
```

```
import java.sql.Connection;
```

```

import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
import net.proteanit.sql.DbUtils;
import java.sql.SQLException;

public class UsersPage extends javax.swing.JPanel {

    Connection Con = null;
    ResultSet Rs=null;
    Statement st =null;

    public UsersPage() {
        initComponents();
        loadDataSet();
        Connection();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jSeparator1 = new javax.swing.JSeparator();
        entryPanel = new javax.swing.JPanel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        userid = new javax.swing.JTextField();
        locationText = new javax.swing.JTextField();
        phoneText = new javax.swing.JTextField();
        usernameText = new javax.swing.JTextField();
        passText = new javax.swing.JPasswordField();
        userTypeCombo = new javax.swing.JComboBox<>();

```

```

addButton = new javax.swing.JButton();
deleteButton = new javax.swing.JButton();
clearButton = new javax.swing.JButton();
nameText1 = new javax.swing.JTextField();
jLabel7 = new javax.swing.JLabel();
jScrollPane1 = new javax.swing.JScrollPane();
userTable = new javax.swing.JTable();

jLabel1.setFont(new java.awt.Font("Impact", 0, 24)); // NOI18N
jLabel1.setText("USERS");

entryPanel.setBorder(javax.swing.BorderFactory.createTitledBorder("Enter User Details"));

jLabel2.setText("User ID:");

jLabel3.setText("Address:");

jLabel4.setText("Phone No:");

jLabel5.setText("Username:");

jLabel6.setText("Password:");

userTypeCombo.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] {
"ADMINISTRATOR", "EMPLOYEE" }));

addButton.setText("Add");
addButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
addButton.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        addButtonActionPerformed(evt);
    }
});

deleteButton.setText("Delete");
deleteButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
deleteButton.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        deleteButtonActionPerformed(evt);
    }
});

clearButton.setText("Clear");
clearButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));

```

```
clearButton.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        clearButtonActionPerformed(evt);  
    }  
});  
  
jLabel7.setText("Name:");  
  
javax.swing.GroupLayout entryPanelLayout = new javax.swing.GroupLayout(entryPanel);  
entryPanel.setLayout(entryPanelLayout);  
entryPanelLayout.setHorizontalGroup(  
    entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(entryPanelLayout.createSequentialGroup()  
            .addContainerGap()  
  
.addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  
                .addComponent(userTypeCombo, javax.swing.GroupLayout.DEFAULT_SIZE,  
Short.MAX_VALUE)  
                .addGroup(entryPanelLayout.createSequentialGroup()  
                    .addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, 68,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
                    .addComponent(nameText1))  
                .addGroup(entryPanelLayout.createSequentialGroup()  
                    .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 68,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
                    .addComponent(phoneText))  
                .addGroup(entryPanelLayout.createSequentialGroup()  
                    .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 68,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
                    .addComponent(passText))  
                .addGroup(entryPanelLayout.createSequentialGroup()  
                    .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 68,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
                    .addComponent(usernameText))  
                .addGroup(entryPanelLayout.createSequentialGroup()  
  
.addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
```

```

        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 68,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 68,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(userid)
        .addComponent(locationText))))
    .addContainerGap()
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
entryPanelLayout.createSequentialGroup()
        .addComponent(addButton, javax.swing.GroupLayout.PREFERRED_SIZE, 78,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(deleteButton, javax.swing.GroupLayout.PREFERRED_SIZE, 75,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(clearButton, javax.swing.GroupLayout.PREFERRED_SIZE, 75,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, Short.MAX_VALUE))
    );
    entryPanelLayout.setVerticalGroup(
        entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
entryPanelLayout.createSequentialGroup()
            .addGap(14, 14, 14)

.addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 25,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(userid, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(nameText1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, 25,
javax.swing.GroupLayout.PREFERRED_SIZE))

```

```

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

    .addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 25,
            javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(locationText, javax.swing.GroupLayout.PREFERRED_SIZE,
            javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

    .addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 25,
            javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(phoneText, javax.swing.GroupLayout.PREFERRED_SIZE,
            javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

    .addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 25,
            javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(usernameText, javax.swing.GroupLayout.PREFERRED_SIZE,
            javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

    .addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
        .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 25,
            javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(passText, javax.swing.GroupLayout.PREFERRED_SIZE,
            javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(userTypeCombo, javax.swing.GroupLayout.PREFERRED_SIZE, 33,
            javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)

    .addGroup(entryPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(addButton)
        .addComponent(deleteButton)
        .addComponent(clearButton))
        .addGap(36, 36, 36)
    );

```



[illegible]

```

        .addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT_SIZE, 432,
Short.MAX_VALUE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(entryPanel, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup())
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 62,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, Short.MAX_VALUE)))
        .addContainerGap()
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup())
        .addContainerGap()
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 36,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup())
        .addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT_SIZE, 270,
Short.MAX_VALUE)
        .addGap(95, 95, 95))
        .addGroup(layout.createSequentialGroup())
        .addComponent(entryPanel, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))))
    );
} // </editor-fold>

private void Connection(){ //Method To Connect to Database
    try{
        Class.forName("com.mysql.jdbc.Driver"); //Get The JDBC Driver
        Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/inventory","root","root");
        //Connect to Database using credentials
    }catch(ClassNotFoundException e){ //Catch Error for missing Driver
        JOptionPane.showMessageDialog(this, "Driver not Found");
    }catch(SQLException e){ //Catch Error for database connection
        JOptionPane.showMessageDialog(this, "Failed to Connect to Database");
    }
}

```

```

    }

}

private void clearButtonActionPerformed(java.awt.event.ActionEvent evt) {
    userid.setText("");
    locationText.setText("");
    phoneText.setText("");
    usernameText.setText("");
    passText.setText("");
    nameText1.setText("");
}

private boolean validatePass(String pass) {
    boolean hasNum = false;
    boolean hasCap = false;
    char[] characters = pass.toCharArray();

    if (pass.length() < 8) {
        return false;
    }

    for (int i = 0; i < pass.length(); i++) {
        if (Character.isUpperCase(characters[i])) {
            hasCap = true;
        }

        if (Character.isDigit(characters[i])) {
            hasNum = true;
        }
    }

    return hasNum && hasCap;
}

private void addButtonActionPerformed(java.awt.event.ActionEvent evt) {
    if(userid.getText().isEmpty()){
        JOptionPane.showMessageDialog(this, "Missing Info, Please enter again");
    }
    if (!validatePass(passText.getText())) {
        JOptionPane.showMessageDialog(this, "Password must have at least 8 characters, a capital letter and a number.");
    }
    else{
        try{

```

```
        PreparedStatement Save = Con.prepareStatement("insert into users  
Values(?,?,?,?,?,?,?)");
```

```
        Save.setInt(1, Integer.valueOf(userid.getText()));  
        Save.setString(2, nameText1.getText());  
        Save.setString(3, locationText.getText());  
        Save.setString(4, phoneText.getText());  
        Save.setString(5, usernameText.getText());  
        Save.setString(6, passText.getText());  
        Save.setString(7, userTypeCombo.getSelectedItem().toString());
```

```
        int row = Save.executeUpdate();  
        JOptionPane.showMessageDialog(this, "User Added");  
        loadDataSet();
```

```
    } catch(Exception Ex){  
        JOptionPane.showMessageDialog(this, Ex);
```

```
    }  
}
```

```
}
```

```
private void deleteButtonActionPerformed(java.awt.event.ActionEvent evt) {  
if(userid.getText().isEmpty()){
```

```
        JOptionPane.showMessageDialog(this, "Select a Product to delete");
```

```
    }
```

```
    else{
```

```
        try {
```

```
            String Query = "Delete from users where id="+userid.getText();
```

```
            Statement Del = Con.createStatement();
```

```
            Del.executeUpdate(Query);
```

```
            JOptionPane.showMessageDialog(this, "User Deleted");
```

```
            loadDataSet();
```

```
        }
```

```
        catch (Exception e) {
```

```
            JOptionPane.showMessageDialog(this, e);
```

```
        }
```

```
}  
}
```

String username;

```
private void userTableMouseClicked(java.awt.event.MouseEvent evt) {  
    DefaultTableModel model = (DefaultTableModel)userTable.getModel();  
    int MyIndex = userTable.getSelectedRow();
```

```
  
    userid.setText(model.getValueAt(MyIndex, 0).toString());  
    nameText1.setText(model.getValueAt(MyIndex, 1).toString());  
    locationText.setText(model.getValueAt(MyIndex, 2).toString());  
    phoneText.setText(model.getValueAt(MyIndex, 3).toString());  
    usernameText.setText(model.getValueAt(MyIndex, 4).toString());  
    passText.setText(model.getValueAt(MyIndex, 5).toString());  
    userTypeCombo.setSelectedItem(model.getValueAt(MyIndex, 6).toString());  
}
```

```
public void loadDataSet() {  
    try {  
        Con =  
DriverManager.getConnection("jdbc:mysql://localhost:3306/inventory","root","root");  
        st = Con.createStatement();  
        Rs = st.executeQuery("select * from users");  
        userTable.setModel(DbUtils.resultSetToTableModel(Rs));  
    }  
    catch(Exception e){  
        e.printStackTrace();  
    }  
}
```

```
// Variables declaration - do not modify  
private javax.swing.JButton addButton;  
private javax.swing.JButton clearButton;  
private javax.swing.JButton deleteButton;  
private javax.swing.JPanel entryPanel;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel2;  
private javax.swing.JLabel jLabel3;  
private javax.swing.JLabel jLabel4;  
private javax.swing.JLabel jLabel5;  
private javax.swing.JLabel jLabel6;  
private javax.swing.JLabel jLabel7;
```

```

private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JSeparator jSeparator1;
private javax.swing.JTextField locationText;
private javax.swing.JTextField nameText1;
private javax.swing.JPasswordField passText;
private javax.swing.JTextField phoneText;
private javax.swing.JTable userTable;
private javax.swing.JComboBox<String> userTypeCombo;
private javax.swing.JTextField userid;
private javax.swing.JTextField usernameText;
// End of variables declaration
}

```

### **SalesPage.Java**

```

package com.inventory.UI;

```

```

import java.awt.event.KeyEvent;
import java.sql.SQLException;
import java.io.FileOutputStream;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.Statement;
import java.text.DateFormat;
import javax.swing.JOptionPane;
import java.util.Date;
import net.proteanit.sql.DbUtils;
import com.itextpdf.text.Document;
import com.itextpdf.text.Font;
import com.itextpdf.text.Paragraph;
import com.itextpdf.text.Phrase;
import com.itextpdf.text.pdf.PdfPCell;
import com.itextpdf.text.pdf.PdfPTable;
import com.itextpdf.text.pdf.PdfWriter;
import javax.swing.table.DefaultTableModel;

public class SalesPage extends javax.swing.JPanel {

    Dashboard dashboard;
    Connection Con = null;
    PreparedStatement pst,pst1 = null;
    ResultSet Rs=null;

```

```
Statement st =null;
private double total = 0;
```

```
public SalesPage(String username, Dashboard dashboard) {
    initComponents();
    loadDataSet();
    Connection();

    this.dashboard = dashboard;
    prodNameLabel.setVisible(false);
}
```

```
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {
```

```
    jLabel1 = new javax.swing.JLabel();
    jSeparator1 = new javax.swing.JSeparator();
    sellPanel = new javax.swing.JPanel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    jLabel5 = new javax.swing.JLabel();
    jLabel6 = new javax.swing.JLabel();
    custCodeText = new javax.swing.JTextField();
    prodCodeText = new javax.swing.JTextField();
    priceText = new javax.swing.JTextField();
    quantityText = new javax.swing.JTextField();
    jDateChooser1 = new com.toedter.calendar.JDateChooser();
    sellButton = new javax.swing.JButton();
    deleteButton = new javax.swing.JButton();
    clearButton = new javax.swing.JButton();
    addCustButton = new javax.swing.JButton();
    prodNameLabel = new javax.swing.JLabel();
    prodCodeText1 = new javax.swing.JTextField();
    custnamed = new javax.swing.JTextField();
    jScrollPane1 = new javax.swing.JScrollPane();
    salesTable = new javax.swing.JTable();
    sellButton1 = new javax.swing.JButton();
```

```
    jLabel1.setFont(new java.awt.Font("Impact", 0, 24)); // NOI18N
    jLabel1.setText("SALES");
```

```
sellPanel.setBorder(javax.swing.BorderFactory.createTitledBorder("Sell Product"));

jLabel2.setText("Customer Code:");

jLabel3.setText("Product Code:");

jLabel4.setText("Date:");

jLabel5.setText("Selling Price:");

jLabel6.setText("Quantity:");

custCodeText.addKeyListener(new java.awt.event.KeyAdapter() {
    public void keyReleased(java.awt.event.KeyEvent evt) {
        custCodeTextKeyReleased(evt);
    }
});

prodCodeText.addKeyListener(new java.awt.event.KeyAdapter() {
    public void keyReleased(java.awt.event.KeyEvent evt) {
        prodCodeTextKeyReleased(evt);
    }
});

jDateChooser1.setForeground(new java.awt.Color(255, 255, 255));

sellButton.setFont(new java.awt.Font("Segoe UI", 1, 12)); // NOI18N
sellButton.setText("SELL PRODUCT");
sellButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
sellButton.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        sellButtonActionPerformed(evt);
    }
});

deleteButton.setText("Delete");
deleteButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
deleteButton.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        deleteButtonActionPerformed(evt);
    }
});

clearButton.setText("Clear");
```



```

clearButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
clearButton.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        clearButtonActionPerformed(evt);
    }
});

addCustButton.setText("Click to add a New Customer");
addCustButton.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
addCustButton.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        addCustButtonActionPerformed(evt);
    }
});

prodNameLabel.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
prodNameLabel.setLabelFor(prodCodeText);

prodCodeText1.setEditable(false);
prodCodeText1.addKeyListener(new java.awt.event.KeyAdapter() {
    public void keyReleased(java.awt.event.KeyEvent evt) {
        prodCodeText1KeyReleased(evt);
    }
});

custnamed.setEditable(false);
custnamed.addKeyListener(new java.awt.event.KeyAdapter() {
    public void keyReleased(java.awt.event.KeyEvent evt) {
        custnamedKeyReleased(evt);
    }
});

javax.swing.GroupLayout sellPanelLayout = new javax.swing.GroupLayout(sellPanel);
sellPanel.setLayout(sellPanelLayout);
sellPanelLayout.setHorizontalGroup(
    sellPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(sellPanelLayout.createSequentialGroup()
            .addGroup(sellPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .add(sellPanelLayout.createSequentialGroup()
                    .addContainerGap()
                    .addGroup(sellPanelLayout.createSequentialGroup()
                        .add(prodNameLabel, javax.swing.GroupLayout.DEFAULT_SIZE,
                            javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

```

```

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(prodCodeText1))
        .addComponent(addCustButton, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(sellButton, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addGroup(sellPanelLayout.createSequentialGroup())
        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 86,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(custCodeText))
        .addGroup(sellPanelLayout.createSequentialGroup())
        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 86,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(prodCodeText))
        .addGroup(sellPanelLayout.createSequentialGroup())
        .addComponent(deleteButton, javax.swing.GroupLayout.PREFERRED_SIZE,
134, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(clearButton, javax.swing.GroupLayout.DEFAULT_SIZE, 129,
Short.MAX_VALUE))
        .addGroup(sellPanelLayout.createSequentialGroup())
        .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 86,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(quantityText))
        .addGroup(sellPanelLayout.createSequentialGroup())
        .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 86,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(priceText))
        .addGroup(sellPanelLayout.createSequentialGroup())
        .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 86,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jDateChooser1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
sellPanelLayout.createSequentialGroup())
        .addGap(0, 0, Short.MAX_VALUE)
        .addComponent(custnamed, javax.swing.GroupLayout.PREFERRED_SIZE, 163,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addContainerGap())

```

```

);
sellPanelLayout.setVerticalGroup(
    sellPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(sellPanelLayout.createSequentialGroup())
            .addContainerGap()

.addGroup(sellPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
)
    .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 24,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGroup(sellPanelLayout.createSequentialGroup())
        .addGap(1, 1, 1)
        .addComponent(custCodeText, javax.swing.GroupLayout.PREFERRED_SIZE,
29, javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(custnamed)
    .addGap(8, 8, 8)
    .addComponent(addCustButton)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(sellPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
    .addComponent(jLabel3, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addComponent(prodCodeText, javax.swing.GroupLayout.DEFAULT_SIZE, 24,
Short.MAX_VALUE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(sellPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
)
    .addGroup(sellPanelLayout.createSequentialGroup())
        .addComponent(prodNameLabel, javax.swing.GroupLayout.PREFERRED_SIZE,
33, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, Short.MAX_VALUE))
        .addComponent(prodCodeText1))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(sellPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
)
    .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 24,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jDateChooser1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

```

```

.addGroup(sellPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 24,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(priceText, javax.swing.GroupLayout.PREFERRED_SIZE, 24,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(sellPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(quantityText, javax.swing.GroupLayout.PREFERRED_SIZE, 24,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(sellButton, javax.swing.GroupLayout.PREFERRED_SIZE, 33,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(sellPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(deleteButton)
    .addComponent(clearButton))
    .addContainerGap()
);

salesTable.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null}
    },
    new String [] {
        "Title 1", "Title 2", "Title 3", "Title 4"
    }
));
salesTable.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        salesTableMouseClicked(evt);
    }
});
jScrollPane1.setViewportView(salesTable);

```

```

sellButton1.setFont(new java.awt.Font("Segoe UI", 1, 12)); // NOI18N
sellButton1.setText("GENERATE SALES REPORT");
sellButton1.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
sellButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        sellButton1ActionPerformed(evt);
    }
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(this);
this.setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 70,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jSeparator1)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT_SIZE, 457,
                Short.MAX_VALUE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(sellPanel, javax.swing.GroupLayout.PREFERRED_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addContainerGap(58, true)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(sellButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 195,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap(58, true)
        );
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(sellPanel, javax.swing.GroupLayout.PREFERRED_SIZE, 100,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(sellButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap(58, true)
        );

```

```

        .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
        .addComponent(sellPanel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 0,
Short.MAX_VALUE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(sellButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(14, Short.MAX_VALUE))
    );
} // </editor-fold>
private void Connection(){ //Method To Connect to Database
    try{
        Class.forName("com.mysql.jdbc.Driver"); //Get The JDBC Driver
        Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/inventory","root","root");
        //Connect to Database using credentials
    }catch(ClassNotFoundException e){ //Catch Error for missing Driver
        JOptionPane.showMessageDialog(this, "Driver not Found");
    }catch(SQLException e){ //Catch Error for database connection
        JOptionPane.showMessageDialog(this, "Failed to Connect to Database");
    }
}

private void deleteButtonActionPerformed(java.awt.event.ActionEvent evt) {
    DefaultTableModel model = (DefaultTableModel)salesTable.getModel();
    int MyIndex = salesTable.getSelectedRow();
    String saleid = model.getValueAt(MyIndex, 0).toString();

    try {
        String Query = "Delete from salesinfo where salesid="+saleid;
        Statement Del = Con.createStatement();
        Del.executeUpdate(Query);
        JOptionPane.showMessageDialog(this, "Sales Record Deleted");
        loadDataSet();
    }
    catch (Exception e) {
        JOptionPane.showMessageDialog(this, e);
    }
}

```

```
}
```

```
}
```

```
private void clearButtonActionPerformed(java.awt.event.ActionEvent evt) {  
    custCodeText.setText("");  
    prodCodeText.setText("");  
    custnamed.setText("");  
    prodCodeText1.setText("");  
    priceText.setText("");  
    quantityText.setText("");  
}
```

```
private void addCustButtonActionPerformed(java.awt.event.ActionEvent evt) {  
    dashboard.addCustPage();  
}
```

```
private void sellButtonActionPerformed(java.awt.event.ActionEvent evt) {  
  
    try {  
        pst = Con.prepareStatement("select * from products where pid=?");  
        pst.setString(1, prodCodeText.getText());  
        Rs= pst.executeQuery();  
        String productid = prodCodeText.getText();  
        while (Rs.next()){  
  
            int instock = Rs.getInt("productqty");  
            if(Integer.valueOf(quantityText.getText()) > instock){  
                JOptionPane.showMessageDialog(this, "Not Enough Quantity!");  
            }  
            else{  
  
                int newstock = instock - Integer.valueOf(quantityText.getText());  
                String sqlnewstock = "Update products set productqty='"+newstock+" where  
pid='"+productid+"'";  
                pst1 = Con.prepareStatement(sqlnewstock);  
                pst1.execute();  
  
                Date date = jDateChooser1.getDate();  
  
                String strDate = DateFormat.getDateInstance().format(date);  
                String prodname = prodCodeText.getText();  
                String custname = custCodeText.getText();
```

```

        int qty = Integer.valueOf(quantityText.getText());
        double price = Double.valueOf(priceText.getText());
        double total = qty * price;

        String addsale = "INSERT INTO salesinfo(date, productcode, customercode, quantity,
revenue) VALUES ('"+strDate+"','"+prodname+"','"+custname+"','"+qty+"','"+total+"')";
        Con.createStatement().executeUpdate(addsale);
        JOptionPane.showMessageDialog(this, "Item Added");
        loadDataSet();

    }
}

}
catch(Exception e){

}

}

private void salesTableMouseClicked(java.awt.event.MouseEvent evt) {

}

private void custCodeTextKeyReleased(java.awt.event.KeyEvent evt) {
    if(evt.getKeyCode()== KeyEvent.VK_ENTER){
        checkcust();
    }
}

private void prodCodeTextKeyReleased(java.awt.event.KeyEvent evt) {
    if(evt.getKeyCode()== KeyEvent.VK_ENTER){
        checkprod();
    }
}

private void prodCodeText1KeyReleased(java.awt.event.KeyEvent evt) {
    // TODO add your handling code here:
}

private void custnamedKeyReleased(java.awt.event.KeyEvent evt) {
    // TODO add your handling code here:
}

```



```

private void sellButton1ActionPerformed(java.awt.event.ActionEvent evt) {

    if (jDateChooser1.getDate() == null){
        JOptionPane.showMessageDialog(null, "Please Select A date To Generate Report For");
        //Validation Check For Date Input
    }
    else{
        Date date = jDateChooser1.getDate();
        String strDate = DateFormat.getDateInstance().format(date);

        try {
            pst = Con.prepareStatement("select * from salesinfo where date=?");
            pst.setString(1, strDate);
            Rs= pst.executeQuery();
            //Parameterized Query to select all Sales from specific Date

            String filename = "/Users/adrian/csia/SalesReport.pdf";
            //File Directory of PDF and Name of PDF
            Document doc = new Document();

            PdfWriter.getInstance(doc, new FileOutputStream(filename));
            doc.open();

            Font f = new Font(Font.FontFamily.HELVETICA, 20, Font.BOLD);
            Font f_head = new Font(Font.FontFamily.HELVETICA, 12, Font.BOLD);
            Font f_cell = new Font(Font.FontFamily.HELVETICA, 12);

            PdfPTable table = new PdfPTable(5);
            PdfPCell head = new PdfPCell(new Phrase("Sale ID", f_head));
            table.addCell(head);
            head = new PdfPCell(new Phrase("Date", f_head));
            table.addCell(head);
            head = new PdfPCell(new Phrase("Product Code", f_head));
            table.addCell(head);
            head = new PdfPCell(new Phrase("Customer Code", f_head));
            table.addCell(head);
            head = new PdfPCell(new Phrase("Revenue", f_head));
            table.addCell(head);
            table.setHeaderRows(1);

            Paragraph p = new Paragraph("Your Sales Report for " + strDate, f);
            p.setSpacingAfter(36f);

```

```

doc.add(p);
//Adding Content to PDF Document such as table for sales data and Footer

while (Rs.next()) {
    PdfPCell cell = new PdfPCell(new Phrase(Rs.getString("salesid"), f_cell));
    table.addCell(cell);

    cell = new PdfPCell(new Phrase(Rs.getString("date"), f_cell));
    table.addCell(cell);

    cell = new PdfPCell(new Phrase(Rs.getString("productcode"), f_cell));
    table.addCell(cell);

    cell = new PdfPCell(new Phrase(Rs.getString("customercode"), f_cell));
    table.addCell(cell);

    cell = new PdfPCell(new Phrase(Rs.getString("revenue"), f_cell));
    table.addCell(cell);
}
//Inputting Sales Data from Database into PDF
calculatetotal();
//Calculate Total Revenue Method
table.setSpacingAfter(72f);
doc.add(table);

Paragraph cost = new Paragraph("Total Revenue: " + total + " HKD", f);
p.setSpacingAfter(36f);
doc.add(cost);

doc.close();
//Close Document
JOptionPane.showMessageDialog(this, "PDF has been created!");
total = 0;
}
catch (Exception e) {
    JOptionPane.showMessageDialog(this, e);
}
}

}

public void loadDataSet() {
    try {

```

```

        Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/inventory","root","root");
        st = Con.createStatement();
        Rs = st.executeQuery("select * from salesinfo ORDER BY date");
        salesTable.setModel(DbUtils.resultSetToTableModel(Rs));
    }
    catch(Exception e){
        e.printStackTrace();
    }
}

```

```

public void checkcust(){
    try{
        String ccode = custCodeText.getText();
        pst = Con.prepareStatement("select * from customers where cid =?");
        pst.setString(1, ccode);
        Rs = pst.executeQuery();
        if(Rs.next() == false){
            JOptionPane.showMessageDialog(this, "ID NOT FOUND");
        }
        else{
            String cname = Rs.getString("fullname");
            custnamed.setText(cname.trim());
        }

    }catch(SQLException ex){

    }
}

```

```

public void checkprod(){
    try{
        String pcode = prodCodeText.getText();
        pst = Con.prepareStatement("select * from products where pid =?");
        pst.setString(1, pcode);
        Rs = pst.executeQuery();
        if(Rs.next() == false){
            JOptionPane.showMessageDialog(this, "ID NOT FOUND");
        }
        else{
            String pname = Rs.getString("productname");
            String pprice = Rs.getString("costprice");
            prodCodeText1.setText(pname.trim());
            priceText.setText(pprice.trim());
        }
    }
}

```

```

    }

    }catch(SQLException ex){

    }
}

public void calculatetotal(){
    Date date = jDateChooser1.getDate();
    String strDate = DateFormat.getDateInstance().format(date);

    try{
        String pcode = prodCodeText.getText();
        pst = Con.prepareStatement("select * from salesinfo where date =?");
        pst.setString(1, strDate);
        Rs = pst.executeQuery();
        while(Rs.next()){
            double price = Rs.getDouble("revenue");
            total = total + price;
        }

    }catch(SQLException ex){

    }
}

```

```

// Variables declaration - do not modify
private javax.swing.JButton addCustButton;
private javax.swing.JButton clearButton;
private javax.swing.JTextField custCodeText;
private javax.swing.JTextField custnamed;
private javax.swing.JButton deleteButton;
private com.toedter.calendar.JDateChooser jDateChooser1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JScrollPane jScrollPane1;

```

```

private javax.swing.JSeparator jSeparator1;
private javax.swing.JTextField priceText;
private javax.swing.JTextField prodCodeText;
private javax.swing.JTextField prodCodeText1;
private javax.swing.JLabel prodNameLabel;
private javax.swing.JTextField quantityText;
private javax.swing.JTable salesTable;
private javax.swing.JButton sellButton;
private javax.swing.JButton sellButton1;
private javax.swing.JPanel sellPanel;
// End of variables declaration
}

```

## **PurchasePage.Java**

```

package com.inventory.UI;

```

```

import com.itextpdf.text.Document;
import com.itextpdf.text.Font;
import com.itextpdf.text.Paragraph;
import com.itextpdf.text.Phrase;
import com.itextpdf.text.pdf.PdfPCell;
import com.itextpdf.text.pdf.PdfPTable;
import com.itextpdf.text.pdf.PdfWriter;
import java.io.File;
import java.io.FileOutputStream;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.Date;
import java.util.Properties;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
import net.proteanit.sql.DbUtils;
import javax.activation.DataHandler;
import javax.activation.DataSource;
import javax.activation.FileDataSource;
import javax.mail.Authenticator;
import javax.mail.Message;

```

```
import javax.mail.Message.RecipientType;
import javax.mail.Multipart;
import javax.mail.PasswordAuthentication;
import javax.mail.Session;
import javax.mail.Transport;
import javax.mail.internet.InternetAddress;
import javax.mail.internet.MimeBodyPart;
import javax.mail.internet.MimeMessage;
import javax.mail.internet.MimeMultipart;
```

```
public class PurchasePage extends javax.swing.JPanel {
```

```
    Dashboard dashboard;
    Connection Con = null;
    PreparedStatement pst = null;
    ResultSet Rs=null;
    Statement st =null;
```

```
    public PurchasePage(Dashboard dashboard) {
        initComponents();
        this.dashboard = dashboard;
        loadDataSet();
    }
```

```
    /**
```

```
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
```

```
    @SuppressWarnings("unchecked")
```

```
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
```

```
    private void initComponents() {
```

```
        jLabel1 = new javax.swing.JLabel();
        jSeparator1 = new javax.swing.JSeparator();
        jPanel1 = new javax.swing.JPanel();
        jLabel3 = new javax.swing.JLabel();
        EmailAddress = new javax.swing.JTextField();
        emailsupbut = new javax.swing.JButton();
        jLabel4 = new javax.swing.JLabel();
        Password = new javax.swing.JPasswordField();
```

```

Recipientemail = new javax.swing.JTextField();
jLabel5 = new javax.swing.JLabel();
jLabel6 = new javax.swing.JLabel();
RecipientName = new javax.swing.JTextField();
jScrollPane1 = new javax.swing.JScrollPane();
purchaseTable = new javax.swing.JTable();
refreshButton1 = new javax.swing.JButton();

jLabel1.setFont(new java.awt.Font("Impact", 0, 24)); // NOI18N
jLabel1.setText("RESTOCK");

jPanel1.setBorder(javax.swing.BorderFactory.createTitledBorder("Purchase Product"));

jLabel3.setText("Email:");

EmailAddress.addKeyListener(new java.awt.event.KeyAdapter() {
    public void keyReleased(java.awt.event.KeyEvent evt) {
        EmailAddressKeyReleased(evt);
    }
});

emailsupbut.setText("Email Supplier");
emailsupbut.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        emailsupbutActionPerformed(evt);
    }
});

jLabel4.setText("Password:");

Password.setText("jPasswordField1");

Recipientemail.addKeyListener(new java.awt.event.KeyAdapter() {
    public void keyReleased(java.awt.event.KeyEvent evt) {
        RecipientemailKeyReleased(evt);
    }
});

jLabel5.setText("Supplier Name:");

jLabel6.setText("Supplier Email:");

RecipientName.addKeyListener(new java.awt.event.KeyAdapter() {
    public void keyReleased(java.awt.event.KeyEvent evt) {

```

```
        RecipientNameKeyReleased(evt);
    }
});
```



```

        .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 102,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(RecipientName, javax.swing.GroupLayout.PREFERRED_SIZE,
178, javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addContainerGap()
    );
    JPanel1Layout.setVerticalGroup(
        JPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(JPanel1Layout.createSequentialGroup()
            .addContainerGap(25, Short.MAX_VALUE)

            .addGroup(JPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(EmailAddress, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

            .addGroup(JPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent>Password, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(218, 218, 218)

            .addGroup(JPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(RecipientName, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)

            .addGroup(JPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(Recipientemail, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)
                .addComponent(emailsupbut, javax.swing.GroupLayout.PREFERRED_SIZE, 31,
javax.swing.GroupLayout.PREFERRED_SIZE))
    );

```

```

jScrollPane1.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        jScrollPane1MouseClicked(evt);
    }
});

purchaseTable.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null}
    },
    new String [] {
        "Title 1", "Title 2", "Title 3", "Title 4"
    }
));
purchaseTable.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        purchaseTableMouseClicked(evt);
    }
});
jScrollPane1.setViewportViewView(purchaseTable);

refreshButton1.setFont(new java.awt.Font("Segoe UI", 1, 12)); // NOI18N
refreshButton1.setText("REFRESH");
refreshButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        refreshButton1ActionPerformed(evt);
    }
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(this);
this.setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jSeparator1)
        .addGroup(layout.createSequentialGroup()
            .addComponent(layout.createSequentialGroup()
                .addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT_SIZE, 438,
Short.MAX_VALUE)

```

```

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup())
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 112,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(refreshButton1)))
        .addContainerGap()
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup())
        .addContainerGap()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 43,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(refreshButton1))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 425,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );
} // </editor-fold>

```

```

public void generaterestockpdf(){

    try {
        Class.forName("com.mysql.cj.jdbc.Driver");
        Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/inventory","root","root");

        pst = Con.prepareStatement("select * from products where productsup=? AND
productqty < restockqty");
    }
}

```

//Query to Select All products from Supplier X and the Restock Quantity is greater than the Quantity on Hand

```
pst.setString(1,RecipientName.getText());  
//Display  
Rs= pst.executeQuery();
```

```
String filename = "/Users/adrian/csia/RestockReport.pdf";  
Document doc = new Document();
```

```
PdfWriter.getInstance(doc, new FileOutputStream(filename));  
doc.open();
```

```
Font f = new Font(Font.FontFamily.HELVETICA, 20, Font.BOLD);  
Font f_head = new Font(Font.FontFamily.HELVETICA, 12, Font.BOLD);  
Font f_cell = new Font(Font.FontFamily.HELVETICA, 12);
```

```
PdfPTable table = new PdfPTable(3);  
PdfPCell head = new PdfPCell(new Phrase("Product ID", f_head));  
table.addCell(head);  
head = new PdfPCell(new Phrase("Name", f_head));  
table.addCell(head);  
head = new PdfPCell(new Phrase("Order Quantity", f_head));  
table.addCell(head);  
table.setHeaderRows(1);
```

```
Paragraph p = new Paragraph("Goods to Restock for " + RecipientName.getText(), f);  
p.setSpacingAfter(36f);  
doc.add(p);
```

```
while (Rs.next()) {  
    PdfPCell cell = new PdfPCell(new Phrase(Rs.getString("pid"), f_cell));  
    table.addCell(cell);  
  
    cell = new PdfPCell(new Phrase(Rs.getString("productname"), f_cell));  
    table.addCell(cell);  
  
    int instock = Rs.getInt("productqty");  
    int restock = Rs.getInt("restockqty");  
  
    int amount = restock - instock;  
    cell = new PdfPCell(new Phrase(String.valueOf(amount), f_cell));
```

```

        table.addCell(cell);

    }

    table.setSpacingAfter(72f);
    doc.add(table);

    doc.close();

    Con.close();
}
catch (Exception e) {
    JOptionPane.showMessageDialog(this, e);
}
}

```

```

private void emailsupbutActionPerformed(java.awt.event.ActionEvent evt) {

    if (EmailAddress.getText().isEmpty() || Password.getText().isEmpty()) {
        JOptionPane.showMessageDialog(this, "Missing email information, please enter.");
    }
    else if (RecipientName.getText().isEmpty()){
        JOptionPane.showMessageDialog(this, "Missing Recipient email information,
please enter.");

    }else{
        {
            generaterestockpdf();
        }
        try {

            String username = EmailAddress.getText();
            String password = Password.getText();
            String receipient = Recipientemail.getText();

            Date cur = new Date();

            Properties properties = new Properties();
            properties.put("mail.smtp.auth", "true");
            //Specifies whether authentication is required by SMTP server, in this case True
            properties.put("mail.smtp.starttls.enable", "true");
            //Specifies whether or not to use STARTTLS encryption

```

```

properties.put("mail.smtp.host", "smtp.gmail.com");
//Hostname of the SMTP server used to send outgoing emails
properties.put("mail.smtp.port", "587");
//Port number used by SMTP server

Session session = Session.getDefaultInstance(properties, new Authenticator(){
    @Override
    protected PasswordAuthentication getPasswordAuthentication() {
        return new PasswordAuthentication(username, password);
        //Email Password Authentication Method Is overwritten by New Method
    }
});

Message message = new MimeMessage(session);

message.setSentDate(cur);
message.setSubject("Restock Order for " + cur);
message.setContent("Sent from Inventory Management System.", "text/plain");
message.setFrom(new InternetAddress(username));
message.setRecipient(RecipientType.TO, new InternetAddress(receipient));

Multipart mp = new MimeMultipart();
MimeBodyPart body = new MimeBodyPart();

File list = new File("/Users/adrian/csia/RestockReport.pdf");
DataSource ds = new FileDataSource(list);
body.setDataHandler(new DataHandler(ds));
body.setFileName(list.getName());

mp.addBodyPart(body);

message.setContent(mp);
Transport.send(message);
JOptionPane.showMessageDialog(this, "Restock List has been sent to "+receipient);
}
catch (Exception e) {
    JOptionPane.showMessageDialog(this, e);
}
}
}
}
}

```

```

private void purchaseTableMouseClicked(java.awt.event.MouseEvent evt) {
    DefaultTableModel model = (DefaultTableModel)purchaseTable.getModel();
    int MyIndex = purchaseTable.getSelectedRow();
    String searchedname = model.getValueAt(MyIndex, 4).toString();
    try{

        Con = DriverManager.getConnection("jdbc:mysql://localhost/inventory","root","root");
        pst = Con.prepareStatement("select * from suppliers where fullname =?");
        pst.setString(1, searchedname);
        Rs = pst.executeQuery();
        if(Rs.next()){
            String recipientemail = Rs.getString("email");
            Recipientemail.setText(recipientemail);
            String recipientname = Rs.getString("fullname");
            RecipientName.setText(recipientname);
        }

    }catch(SQLException ex){

    }
}

private void EmailAddressKeyReleased(java.awt.event.KeyEvent evt) {

}

private void jScrollPane1MouseClicked(java.awt.event.MouseEvent evt) {

}

private void refreshButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    loadDataSet();
}

private void RecipientemailKeyReleased(java.awt.event.KeyEvent evt) {
    // TODO add your handling code here:
}

private void RecipientNameKeyReleased(java.awt.event.KeyEvent evt) {
    // TODO add your handling code here:
}

public void loadDataSet() {

```

```

    try {
        Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/inventory","root","root");
        st = Con.createStatement();
        Rs = st.executeQuery("select * from Products where productqty < restockqty ");
        purchaseTable.setModel(DbUtils.resultSetToTableModel(Rs));
        Con.close();
    }
    catch(Exception e){
        e.printStackTrace();
    }
}

// Variables declaration - do not modify
private javax.swing.JTextField EmailAddress;
private javax.swing.JPasswordField Password;
private javax.swing.JTextField RecipientName;
private javax.swing.JTextField Recipientemail;
private javax.swing.JButton emailsupbut;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JPanel jPanel1;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JSeparator jSeparator1;
private javax.swing.JTable purchaseTable;
private javax.swing.JButton refreshButton1;
// End of variables declaration
}

```