





```
private void btnLogoutActionPerformed(java.awt.event.ActionEvent evt) {
    PurchaseAndSalesRecordSystem purchaseAndSalesRecordSystem = new
PurchaseAndSalesRecordSystem();

    purchaseAndSalesRecordSystem.setVisible(true);
    dispose();

}
```

```
public class PurchaseAndSalesRecordSystem extends javax.swing.JFrame {

    /**
     * Creates new form PurchaseAndSalesRecordSystem
     */
    JSONArray jsonArray = new JSONArray();
```

```

public PurchaseAndSalesRecordSystem() {
    initComponents();
    setLocationRelativeTo(null);
}

/**
 * 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();
    jTextField1 = new javax.swing.JTextField();
    jPasswordField1 = new javax.swing.JPasswordField();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    btnLogin = new javax.swing.JButton();
    btnDelete = new javax.swing.JButton();
    btnRegister = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    setTitle("Duke's Children");

    jLabel1.setFont(new java.awt.Font("Yu Gothic UI Semibold", 0, 36)); // NOI18N
    jLabel1.setText("MENU LOGIN");
    jLabel1.setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT_CURSOR));

```

```
jTextField1.setToolTipText("Enter the user name.");
```

```
jLabel2.setFont(new java.awt.Font("Trebuchet MS", 0, 14)); // NOI18N
```

```
jLabel2.setText(" User Name:");
```

```
jLabel3.setFont(new java.awt.Font("Trebuchet MS", 0, 14)); // NOI18N
```

```
jLabel3.setText(" Password:");
```

```
btnLogin.setFont(new java.awt.Font("Trebuchet MS", 0, 12)); // NOI18N
```

```
btnLogin.setText("Login");
```

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

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

```
        btnLoginActionPerformed(evt);
```

```
    }
```

```
});
```

```
btnDelete.setFont(new java.awt.Font("Trebuchet MS", 0, 12)); // NOI18N
```

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

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

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

```
        btnDeleteActionPerformed(evt);
```

```
    }
```

```
});
```

```
btnRegister.setText("Register");
```

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

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

```
        btnRegisterActionPerformed(evt);
```

```
    }
```

```
});
```

```

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

layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addGap(93, 93, 93)
                    .addComponent(btnLogin)
                    .addGap(40, 40, 40)
                    .addComponent(btnRegister)
                    .addGap(42, 42, 42)
                    .addComponent(btnDelete))
                .addGroup(layout.createSequentialGroup()
                    .addGap(48, 48, 48)
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addComponent(jLabel2)
                        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 134,
                                javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addGap(32, 32, 32)
                            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                                .addComponent(jPasswordField1, javax.swing.GroupLayout.DEFAULT_SIZE,
                                    213, Short.MAX_VALUE)
                                .addComponent(jTextField1))))
                        .addContainerGap(39, Short.MAX_VALUE))
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                        .addGap(0, 0, Short.MAX_VALUE)
                        .addComponent(jLabel1)
                        .addGap(118, 118, 118))
                    .addGap(0, 0, Short.MAX_VALUE)
                )
            )
        )
    );

```

```

layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup())
            .addGap(65, 65, 65)
            .addComponent(jLabel1)
            .addGap(55, 55, 55)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel2))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jPasswordField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel3))
            .addGap(48, 48, 48)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(btnLogin)
                .addComponent(btnDelete)
                .addComponent(btnRegister))
            .addContainerGap(139, Short.MAX_VALUE)
        );

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

```

```

private void btnLoginActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    JSONArray jsonArray = new JSONArray();
    Object object = null;
    JSONParser jsonParser = new JSONParser();

```

```

//fetch fileReader ---
try {
    FileReader fileReader = new FileReader("UserData.json");
    object = jsonParser.parse(fileReader);
    jsonArray = (JSONArray) object;
    fileReader.close();

} catch (IOException ex) {
    JOptionPane.showMessageDialog(null, "Error occurred while fetching");

} catch (ParseException ex) {

}

JSONObject jsonObject = new JSONObject();

int size = jsonArray.size();

jsonObject.put("username", jTextField1.getText());
jsonObject.put("password", jPasswordField1.getText());
for (int i = 0; i < size; i++) {
    if (jsonObject.equals(jsonArray.get(i))) {
        JOptionPane.showMessageDialog(null, "Password Matched");
        FrmMenuOption frmMenuOption = new FrmMenuOption();
        frmMenuOption.setVisible(true);
        dispose();
        //break;
    } else if (i == size - 1) {
        JOptionPane.showMessageDialog(null, "Incorret User/Password ");
        this.setVisible(true);
    }
}
}

```

```
}
```

```
private void btnRegisterActionPerformed(java.awt.event.ActionEvent evt) {
```

```
    // TODO add your handling code here:
```

```
    JSONObject jsonObject = new JSONObject();
```

```
    JSONArray jsonArray = new JSONArray();
```

```
    JSONParser jsonParser = new JSONParser();
```

```
    try {
```

```
        FileReader fileReader = new FileReader("UserData.json");
```

```
        jsonArray = (JSONArray) jsonParser.parse(fileReader);
```

```
    } catch (Exception ex) {
```

```
        JOptionPane.showMessageDialog(null, "Error occurred");
```

```
    }
```

```
    jsonObject.put("username", jTextField1.getText());
```

```
    jsonObject.put("password", jPasswordField1.getText());
```

```
    jsonArray.add(jsonObject);
```

```
    try {
```

```
        FileWriter fileWriter = new FileWriter("UserData.json");
```

```
        fileWriter.write(jsonArray.toJSONString());
```

```
        fileWriter.close();
```

```
    } catch (Exception ex) {
```

```
        JOptionPane.showMessageDialog(null, "Error occurred");
```

```
    }
```

```
    JOptionPane.showMessageDialog(null, "Data saved");
```

```
}
```

```
private void btnDeleteActionPerformed(java.awt.event.ActionEvent evt) {
```

```
    // TODO add your handling code here:
```



```

JSONObject jsonObject = new JSONObject();

int size = jsonArray.size();

jsonObject.put("username", jTextField1.getText());
jsonObject.put("password", jPasswordField1.getText());
for (int i = 0; i < size; i++) {
    if (jsonObject.equals(jsonArray.get(0))) {
        try {
            FileWriter fileWriter = new FileWriter("UserData.json");
            jsonArray.remove(i);
            fileWriter.write(jsonArray.toJSONString());
            fileWriter.close();
        } catch (IOException ex) {
            JOptionPane.showMessageDialog(null, "Error occurred");
        }
        jsonArray.remove(i);
        JOptionPane.showMessageDialog(null, "Data Remove");
        break;
    } else if (i == size - 1) {
        JOptionPane.showMessageDialog(null, "Incorret User/Password ");
    }
}
}

```