

## **APPENDIX**

### **SOURCE CODE**

#### **Home.java**

```
package creditcard;

public class home extends javax. swing. Frame {

    public home() {

initComponents ();

private void initComponents ()

jPanel1 = new javax. swing. JPanel ();

jPanel2 = new javax. swing. JPanel();

jLabel1 = new javax. swing. JLabel();

jPanel3 = new javax. swing. JPanel ();

jLabel2 = new javax.swing. JLabel();

jButton1 = new javax.swing.JButton();

jButton2 = new javax. Swing.JButton();

jLabel4 = new javax.swing.JLabel();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        setMinimumSize(new          java.awt.Dimension(617,          489));
jPanel1.setLayout(null);

jPanel2.setBackground(new          java.awt.Color(204,          204,          204));
jPanel2.setBorder(javax.swing.BorderFactory.createEtchedBorder());
jLabel1.setFont(new          java.awt.Font("Times New Roman", 1, 18));
jLabel1.setForeground(new java.awt.Color(0, 51, 204)); jLabel1.setText("Credit
```

```
Card Fraud Detection Using Hidden Markov Model"); javax.swing.GroupLayout  
jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
```

```
jPanel2.setLayout(jPanel2Layout);
```

```
jPanel2Layout.setHorizontalGroup(
```

```
jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
.addGroup(jPanel2Layout.createSequentialGroup()
```

```
.addGap(73, 73, 73)
```

```
.addComponent(jLabel1,  
javax.swing.GroupLayout.PREFERRED_SIZE, 497,  
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
.addContainerGap(18, Short.MAX_VALUE))
```

```
);
```

```
jPanel2Layout.setVerticalGroup(
```

```
jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
.addGroup(jPanel2Layout.createSequentialGroup()
```

```
.addContainerGap()
```

```
.addComponent(jLabel1,  
javax.swing.GroupLayout.DEFAULT_SIZE, 38, Short.MAX_VALUE)
```

```
.addContainerGap())
```

```
);
```

```
jPanel1.add(jPanel2);
```

```
jPanel2.setBounds(10, 11, 592, 64);
```

```
jPanel3.setBorder(new javax.swing.border.SoftBevelBorder(0));
```

```
jLabel2.setIcon(new  
javax.swing.ImageIcon("C:\\Users\\ETPL21\\Documents\\NetBeansProjects\\cr  
ditcard\\src\\crditcard\\index.jpg"));
```

```
jButton1.setFont(new java.awt.Font("Times New Roman", 1, 18));
```

```
jButton1.setForeground(new java.awt.Color(153, 0, 0));
```

```
jButton1.setText("SIGN IN");
```

```
jButton1.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton1ActionPerformed(evt);  
    }  
});
```

```
jButton2.setFont(new java.awt.Font("Times New Roman", 1, 18));
```

```
jButton2.setForeground(new java.awt.Color(153, 0, 0));
```

```
jButton2.setText("SIGN UP");
```

```
jButton2.addActionListener(new java.awt.event.ActionListener() {
```

```
public void actionPerformed(java.awt.event.ActionEvent evt) {  
    JButton2ActionPerformed(evt);  
}  
});
```

```
javax.swing.GroupLayout jPanel3Layout = new  
javax.swing.GroupLayout(jPanel3);
```

```
jPanel3.setLayout(jPanel3Layout);
```

```
jPanel3Layout.setHorizontalGroup(
```

```
jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
.addGroup(jPanel3Layout.createSequentialGroup()
```

```
.addGap(54, 54, 54)
```

```
.addComponent(jLabel2)
```

```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,  
71, Short.MAX_VALUE)
```

```
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
```

```
.addComponent(jButton1,  
javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
```

```
.addComponent(jButton2,  
javax.swing.GroupLayout.DEFAULT_SIZE, 158, Short.MAX_VALUE))
```

```
.addGap(60, 60, 60))

);

jPanel3Layout.setVerticalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createSequentialGroup())

.addContainerGap(72, Short.MAX_VALUE)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel3Layout.createSequentialGroup()

.addComponent(jLabel2)

.addGap(67, 67, 67))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel3Layout.createSequentialGroup()

.addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE,          44,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(55, 55, 55)

.addComponent(jButton2,
javax.swing.GroupLayout.PREFERRED_SIZE,          45,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(110, 110, 110))))

);
```

```

jPanel1.add(jPanel3);

jPanel3.setBounds(10, 103, 592, 353);


jLabel4.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/creditcard/bk.jpg")));

jPanel1.add(jLabel4);

jLabel4.setBounds(0, 0, 620, 480);


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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
617, Short.MAX_VALUE)

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addGroup(layout.createSequentialGroup()

        .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

        .addGap(0, 2, Short.MAX_VALUE))

    );

    pack();
}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

    second st=new second();

    st.setVisible(true);
}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt)

    first fst=new first();

    fst.setVisible(true);

}

Public static void main(String args[]) {

    try {

        for      (javax.swing.UIManager.LookAndFeelInfo      info      :
javax.swing.UIManager.getInstalledLookAndFeels()) {

            if ("Nimbus".equals(info.getName())) {

```

```
        javax.swing.UIManager.setLookAndFeel(info.getClassName());

        break;

    }

}

} catch (ClassNotFoundException ex) {
```

```
java.util.logging.Logger.getLogger(home.class.getName()).log(java.util.logging
.Level.SEVERE, null, ex);
```

```
    } catch (InstantiationException ex) {
```

```
java.util.logging.Logger.getLogger(home.class.getName()).log(java.util.logging
.Level.SEVERE, null, ex);
```

```
    } catch (IllegalAccessException ex) {
```

```
java.util.logging.Logger.getLogger(home.class.getName()).log(java.util.logging
.Level.SEVERE, null, ex);
```

```
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
```

```
java.util.logging.Logger.getLogger(home.class.getName()).log(java.util.logging
.Level.SEVERE, null, ex);
```

```
    }
```

```
java.awt.EventQueue.invokeLater(new Runnable() {
```

```
    public void run() {
```

```
        new home().setVisible(true);
```



```
    }  
    });  
}
```

```
private javax.swing.JButton jButton1;  
private javax.swing.JButton jButton2;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel2;  
private javax.swing.JLabel jLabel4;  
private javax.swing.JPanel jPanel1;  
private javax.swing.JPanel jPanel2;  
private javax.swing.JPanel jPanel3;  
  
}
```