

CHAPTER ONE

1.1 INTRODUCTION

Rules and regulations are paramount to all aspects of life and it accommodates both how one wishes to live, and how others should accommodate one's lifestyle. Proponents have asserted that crime which is a violation against laws of the society, is integral to the human nature and hence the society can never be completely free from it. Modern society is characterized by increasing levels of risk posed by internal and external security threats. Within this context, security driven by technology is increasingly being used by government, corporate bodies and individuals to monitor and reduce risk.

The widely employed Crime Record Management method in the Nigerian Police Force (NPF) is the manual process. This approach entails the use of paper files in the documentation of criminal information by the NPF. A complainant fills in a First Information Report [FIR] form which includes his or her statement concerning the accused. When the accused is brought in, their details are handwritten into case files. Prior to the advent of computers, these files were kept in wooden or metal wardrobes under lock and key. This was susceptible to damage by pest and unfavorable environmental conditions.

In recent years, as a result of the global rise in application of computers in various aspects of life, desktop applications such as Microsoft Excel were adopted, thereby causing the approach to become both manual and slightly computerized in Nigeria. However, this method of record keeping results in inconsistencies, wastage of disk space and poor control and coordination of data. The employment of this method results from reasons such as:

- i. Inadequate funding
- ii. Corruption and extortion and
- iii. Lack of necessary skills and resources for statistical and information management.

Criminal Records Management System

This system was aimed at the implementation of a Criminal Records Management System. It is a database system in which the police keep the record of criminals who have been arrested, to be arrested, or escaped. This will help the police department in enhanced management of information. The main entities in the whole process include; the petitioner (the person who files a First Incident Report (FIR)), victim, accused or criminal, case, and investigating officer. The CRMS keeps records of the petitioner, victim, accused, FIR, case and investigation officer entities.

The system's strengths lay in that it allows for storage of multiple data for a criminal. A weakness observed in the system however, is that it lacks in covering all the necessary entities required for a CRMS built for the NPF, it has no interface; as only the database was designed, there is no proper distinction between an accused and the criminal in the system, there is no generation of crime analysis and report.

1.2 AIM AND OBJECTIVES

The proposed Crime Record Management System enhances the crime recording operations of the Nigerian Police Force. The aim is to store records in a centralized database which holds information about criminals, crime and users of the system. The database is the basis for all actions in the system and can be easily updated and used to aid in all of the system's processes, that is, all of the required information is stored in one central location and thus is easily accessible. Furthermore, the correctness of the centralized database will allow functions such as crime report generation and statistical analysis of crime data. This is a more effective storage method than a paper-based file system.

In addition to the functions highlighted above, the system performs the basic functions of storage, retrieval and manipulation of crime and criminal data and information.

The Objectives of the proposed system are as follows:

- i. Interstation communication in real time
- ii. Centralized data handling
- iii. Reduced time consumption
- iv. Computerized record keeping with manpower

- v. Cost reduction
- vi. Operational efficiency

1.3 SOFTWARE REQUIREMENTS

- i. Operating System: Windows (2000, Vista, 7 and 8)
- ii. Graphical User Interface: Java frame form.
- iii. Database: MySQL
- iv. IDE/Workbench: Xamp
- v. (APACHE SERVER)

1.4 HARDWARE REQUIREMENTS

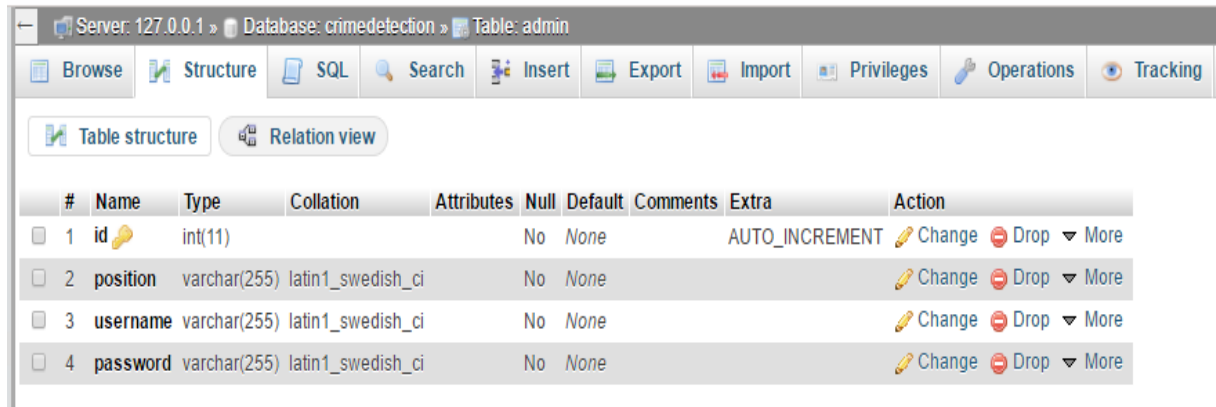
- i. Processor: Pentium III – 900 MHz
- ii. 512 MB RAM (minimum main memory space recommended)
- iii. 768 MB RAM (main memory space recommended)
- iv. 560 – 760 MB minimum hard disk space (depending on features installed)
- v. 4GB Hard disk space (recommended)

1.5 DATABASE DESIGN

Database Testing: A database is a repository of data of various types. As a result of this, many types of integration and implementation errors may occur in large database systems, which influence the system operation negatively. It is therefore of pivotal importance to test the database in order to achieve a database that satisfies the ACID (atomicity, consistency, Isolation, durability) properties of a database management system.

Below are some of the screenshots of some tables in the database of the proposed system.

ADMIN REGISTRATION TABLE

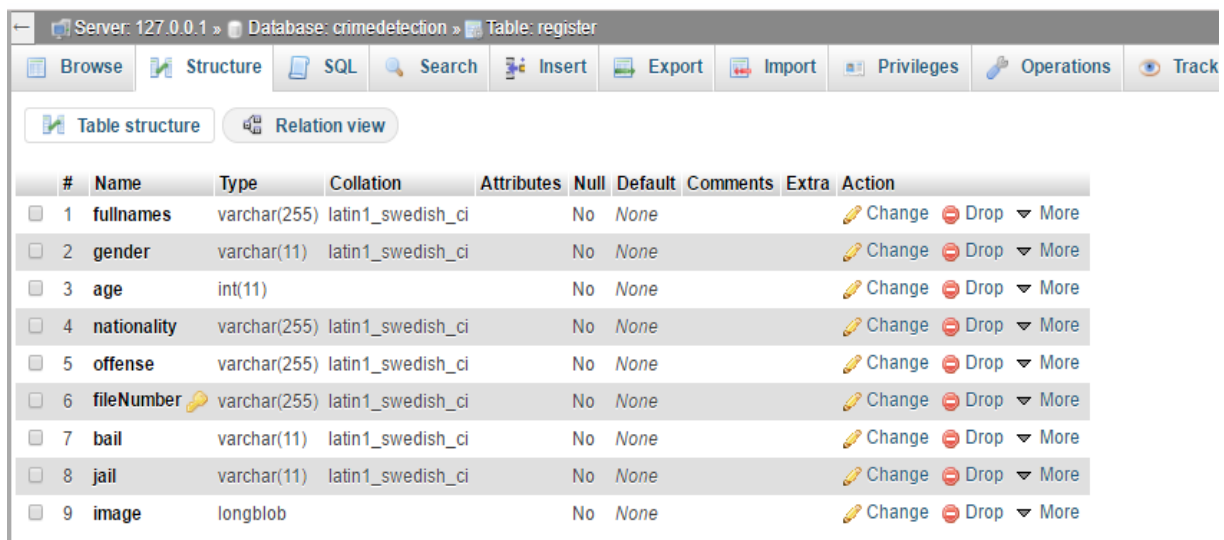


The screenshot shows a database management interface for a server at 127.0.0.1, database 'crimedetection', and table 'admin'. The 'Table structure' tab is active, displaying a table with 4 columns: id, position, username, and password. The 'id' column is the primary key and has an AUTO_INCREMENT attribute. All columns are of type VARCHAR(255) except for 'id' which is INT(11). All columns are NOT NULL and have a default value of None. The collation for all VARCHAR columns is latin1_swedish_ci. Each column has a 'Change', 'Drop', and 'More' action button.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	position	varchar(255)	latin1_swedish_ci		No	None			Change Drop More
3	username	varchar(255)	latin1_swedish_ci		No	None			Change Drop More
4	password	varchar(255)	latin1_swedish_ci		No	None			Change Drop More

Table 1 shows the ADMIN table which holds information of an administrator. It contains the admin id as the primary key and admin specification such as; position and username and password.

CRIMINAL REGISTRATION TABLE



The screenshot shows a database management interface for a server at 127.0.0.1, database 'crimedetection', and table 'register'. The 'Table structure' tab is active, displaying a table with 9 columns: fullnames, gender, age, nationality, offense, fileNumber, bail, jail, and image. The 'fileNumber' column is the primary key. All columns are of type VARCHAR(255) except for 'age' which is INT(11) and 'image' which is LONGBLOB. All columns are NOT NULL and have a default value of None. The collation for all VARCHAR columns is latin1_swedish_ci. Each column has a 'Change', 'Drop', and 'More' action button.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	fullnames	varchar(255)	latin1_swedish_ci		No	None			Change Drop More
2	gender	varchar(11)	latin1_swedish_ci		No	None			Change Drop More
3	age	int(11)			No	None			Change Drop More
4	nationality	varchar(255)	latin1_swedish_ci		No	None			Change Drop More
5	offense	varchar(255)	latin1_swedish_ci		No	None			Change Drop More
6	fileNumber	varchar(255)	latin1_swedish_ci		No	None			Change Drop More
7	bail	varchar(11)	latin1_swedish_ci		No	None			Change Drop More
8	jail	varchar(11)	latin1_swedish_ci		No	None			Change Drop More
9	image	longblob			No	None			Change Drop More

Table 2 shows the crime registration table which holds information on the crime. It contains the crime id as the primary key and crime specification such as; name, offense, file number, full name of offender, probable jail sentence, bail and image of criminal.

1.6 SYSTEM IMPLEMENTATION

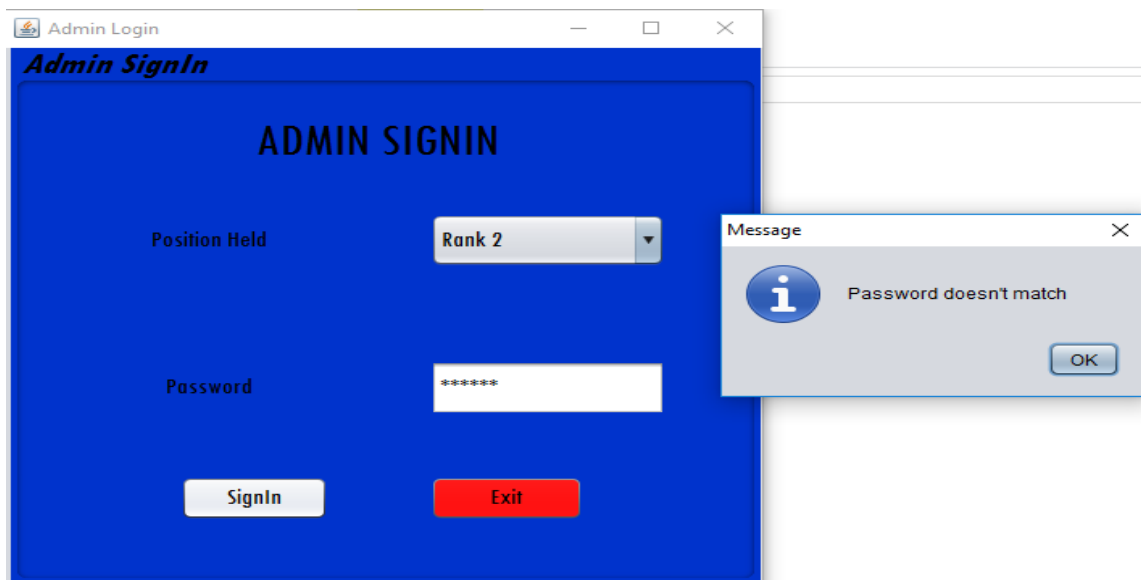
1.6.1 Programming language used includes the followings:

- i. Java
- ii. Structured query language

1.7 SYSTEM OUTPUT/SCREENSHOT

This involves testing the various modules of the system individually, integrating the various components into one, and testing the CRMS as a whole. The CRMS consists of various modules. Some of them are:

- i. Login Module: Figure 1 shows the Login page. This is also known as the authentication module. This module is responsible for logging users into the system. This is done by providing a correct and already registered police id and password, without which the user is denied access to the system.



- ii. Homepage Module: Figure 2 shows the Homepage module. This module is responsible for redirecting users to perform other activities on the application.




- iii. Add Criminal Record Module: Figure 3 shows the criminal record module where specific information about the offender and type of offense committed are entered into a centralized database.

Add Criminal info

—□×

Add Criminal Page

CRIMINAL RECORD

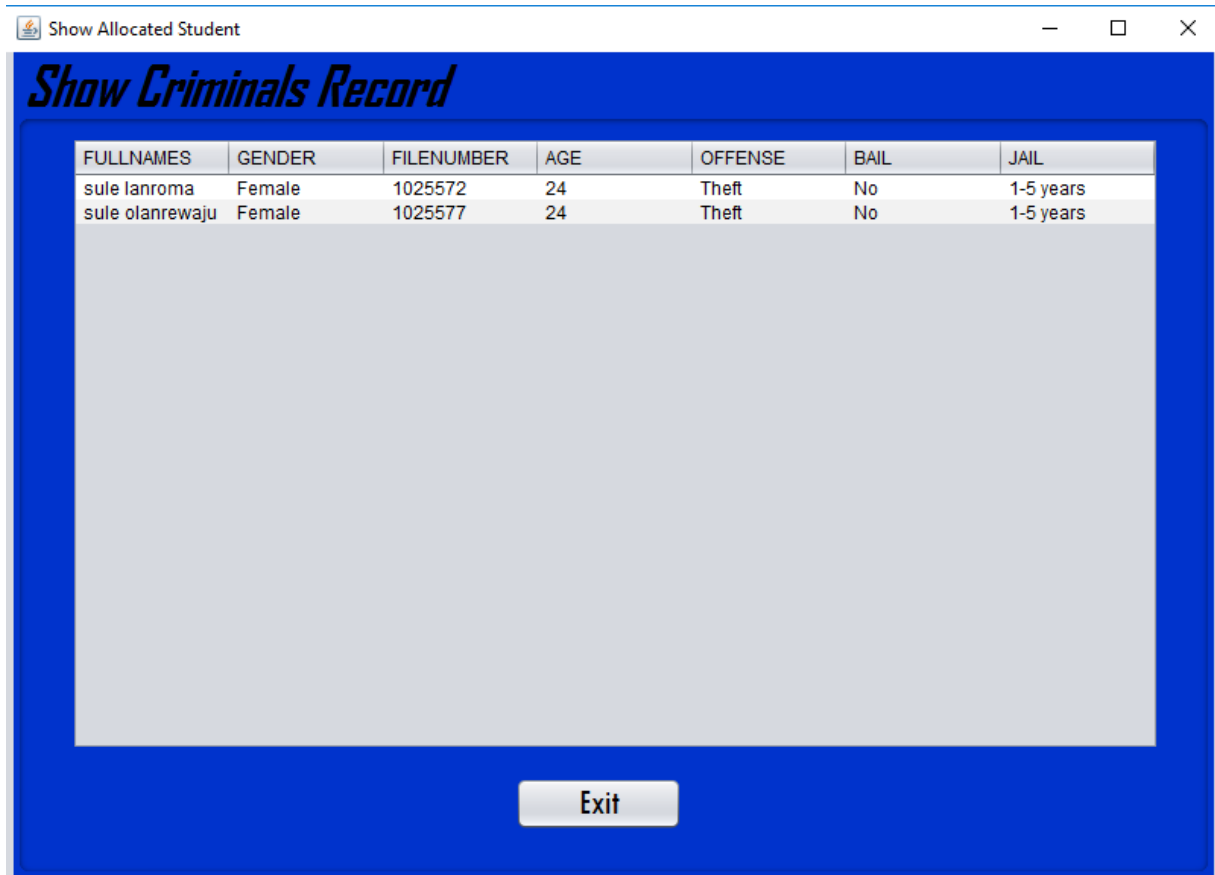
Fullnames	<input type="text" value="Ogbeni fola"/>	
Gender	<input type="text" value="Male"/>	
Age	<input type="text" value="30"/>	
Nationality	<input type="text" value="Nigerian"/>	
Type of Offense	<input type="text" value="Student Cultism"/>	<input type="button" value="Upload Image"/>
Case/ File Number	<input type="text" value="210945"/>	
Bail Status	<input type="text" value="Yes"/>	
Jail Term	<input type="text" value="1-5 years"/>	

- iv. Edit Criminal Record Module: Figure 4 shows the edit module where criminal's record can be updated and when they are granted bail such criminal record can be deleted off the database and such person is said to be free.

The screenshot shows a web application window titled "Edit Criminal info" with standard minimize, maximize, and close buttons. The main content area has a blue background and is titled "Edit Criminal Record Page" in a stylized font. Below this, the heading "EDIT CRIMINAL RECORD" is centered. To the right of the heading is a "SEARCH RECORD" button. On the left side, there are labels for various fields: "Case/ File Number", "Gender", "Age", "Nationality", "Type of Offense", "Fullnames", "Bail Status", and "Jail Term". Each label is followed by a white text input field. At the bottom of the form, there are three buttons: "Update" (blue), "Delete" (orange), and "Exit" (grey).

EDIT CRIMINAL RECORD	
Case/ File Number	<input type="text"/>
Gender	<input type="text"/>
Age	<input type="text"/>
Nationality	<input type="text"/>
Type of Offense	<input type="text"/>
Fullnames	<input type="text"/>
Bail Status	<input type="text"/>
Jail Term	<input type="text"/>
<div><button>Update</button><button>Delete</button><button>Exit</button></div>	

- v. Display Offenders Record: This module allows administrators view all records of offenders who have a track record with the agency it contains specific details about the criminal and type of offense committed.



1.8CODE LISTING

- i. Admin Signup

```
import java.awt.HeadlessException;
```

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

```
import java.sql.ResultSet;
```

```
import java.sql.SQLException;
```

```
import java.sql.Statement;
```

```
import javax.swing.JOptionPane;
```

```
/**
```

```
 *
```

```
 * @author fola
```

```
 */
```

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

```
    Connection conn = null;
```

```
    Statement stmt = null;
```

```
    ResultSet rs = null;
```

```
    public HomeSignup() {
```

```
        super("Create Admin");
```

```
        initComponents();
```

```
        conn = dbaseConnx.openConnection();
```

```
    }
```

```
/**  
 * 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() {  
  
    jPanel1 = new javax.swing.JPanel();  
    jLabel1 = new javax.swing.JLabel();  
    jLabel2 = new javax.swing.JLabel();  
    Password = new javax.swing.JLabel();  
    username = new javax.swing.JTextField();  
    password = new javax.swing.JPasswordField();  
    Signup = new javax.swing.JButton();  
    Exit = new javax.swing.JButton();  
    position = new javax.swing.JComboBox();  
    jLabel4 = new javax.swing.JLabel();  
  
    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
```

```

jPanel1.setBackground(new java.awt.Color(0, 51, 204));

jPanel1.setBorder(javax.swing.BorderFactory.createTitledBorder(null, "Admin
Signup",
    javax.swing.border.TitledBorder.DEFAULT_JUSTIFICATION,
    javax.swing.border.TitledBorder.DEFAULT_POSITION, new java.awt.Font("Tw Cen
MT Condensed", 3, 24), new java.awt.Color(0, 0, 0))); // NOI18N

jLabel1.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 36)); // NOI18N
jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel1.setText("ADMIN SIGNUP");
jLabel1.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));

jLabel2.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N
jLabel2.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel2.setText("Username");

Password.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); //
NOI18N
Password.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
Password.setText("Password");

username.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); //
NOI18N
username.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {

```

```
        usernameActionPerformed(evt);  
    }  
});
```

```
password.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N
```

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

```
Signup.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N
```

```
Signup.setText("Signup");
```

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

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

```
Exit.setBackground(new java.awt.Color(255, 0, 0));
```

```
Exit.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N
```

```

Exit.setText("Exit");

Exit.setToolTipText("");

Exit.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));

Exit.addActionListener(new java.awt.event.ActionListener() {

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

        ExitActionPerformed(evt);

    }

});

```

```

position.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N

position.setModel(new javax.swing.DefaultComboBoxModel(new String[]
{ "Rank 1", "Rank 2", "Rank 3", " " }));

```

```

jLabel4.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N

jLabel4.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);

jLabel4.setText("Position Held");

```

```

javax.swing.GroupLayout jPanel1Layout = new
javax.swing.GroupLayout(jPanel1);

jPanel1.setLayout(jPanel1Layout);

jPanel1Layout.setHorizontalGroup(

```

```

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

```

```

        .addGroup(jPanel1Layout.createSequentialGroup())

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)

        .addGroup(jPanel1Layout.createSequentialGroup())

        .addGap(35, 35, 35)

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayou
t.Alignment.LEADING)

        .addGroup(jPanel1Layout.createSequentialGroup())

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupL
ayout.Alignment.LEADING)

        .addComponent(jLabel4,
javax.swing.GroupLayout.PREFERRED_SIZE,                148,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(jLabel2,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))

        .addGap(31, 31, 31)

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupL
ayout.Alignment.LEADING)

        .addComponent(username,
javax.swing.GroupLayout.PREFERRED_SIZE,                146,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(position,
javax.swing.GroupLayout.PREFERRED_SIZE,                146,
javax.swing.GroupLayout.PREFERRED_SIZE)))

        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE,

```

```

357, javax.swing.GroupLayout.PREFERRED_SIZE)))

        .addGroup(jPanel1Layout.createSequentialGroup())

        .addGap(27, 27, 27)

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

        .addComponent(Password,
javax.swing.GroupLayout.PREFERRED_SIZE,                                134,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(Signup, javax.swing.GroupLayout.PREFERRED_SIZE,
92, javax.swing.GroupLayout.PREFERRED_SIZE))

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

        .addGroup(jPanel1Layout.createSequentialGroup())

        .addGap(39, 39, 39)

        .addComponent(password,
javax.swing.GroupLayout.PREFERRED_SIZE,                                146,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGroup(jPanel1Layout.createSequentialGroup())

        .addGap(59, 59, 59)

        .addComponent(Exit, javax.swing.GroupLayout.PREFERRED_SIZE,
95, javax.swing.GroupLayout.PREFERRED_SIZE))))

        .addContainerGap(45, Short.MAX_VALUE))

    );

    jPanel1Layout.linkSize(javax.swing.SwingConstants.HORIZONTAL,    new

```



```
java.awt.Component[] {Password, jLabel2, jLabel4});
```

```
        jPanel1Layout.linkSize(javax.swing.SwingConstants.HORIZONTAL, new  
java.awt.Component[] {password, position, username});
```

```
        jPanel1Layout.setVerticalGroup(
```

```
jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
        .addGroup(jPanel1Layout.createSequentialGroup()
```

```
            .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 72,  
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali  
gnment.LEADING)
```

```
                .addGroup(jPanel1Layout.createSequentialGroup()
```

```
                    .addGap(95, 95, 95)
```

```
                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayou  
t.Alignment.BASELINE)
```

```
                        .addComponent(username,  
javax.swing.GroupLayout.PREFERRED_SIZE, 40,  
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
                        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE,  
40, javax.swing.GroupLayout.PREFERRED_SIZE)))
```

```
                .addGroup(jPanel1Layout.createSequentialGroup()
```

```
                    .addGap(22, 22, 22)
```

```
                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayou
```

t.Alignment.BASELINE)

.addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE,
37, javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(position,
javax.swing.GroupLayout.PREFERRED_SIZE, 42,
javax.swing.GroupLayout.PREFERRED_SIZE))))

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

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.BASELINE)

.addComponent(password, javax.swing.GroupLayout.PREFERRED_SIZE,
43, javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(Password, javax.swing.GroupLayout.PREFERRED_SIZE,
39, javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(47, 47, 47)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.BASELINE)

.addComponent(Signup, javax.swing.GroupLayout.PREFERRED_SIZE, 35,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(Exit, javax.swing.GroupLayout.PREFERRED_SIZE, 35,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(38, 38, 38))

);

jPanel1Layout.linkSize(javax.swing.SwingConstants.VERTICAL, new
java.awt.Component[] {Password, jLabel2, jLabel4});

```
        jPanel1Layout.linkSize(javax.swing.SwingConstants.VERTICAL, new
java.awt.Component[] {password, position, username});
```

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

```
        getContentPane().setLayout(layout);
```

```
        layout.setHorizontalGroup(
```

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

```
                .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
```

```
layout.createSequentialGroup()
```

```
                    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
```

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

```
                    .addGroup(1, 1, 1))
```

```
        );
```

```
        layout.setVerticalGroup(
```

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

```
                .addGroup(layout.createSequentialGroup()
```

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

```
                    .addContainerGap())
```

```
        );
```

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

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

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

```
private void SignupActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    try{  
        stmt = conn.createStatement();  
        String Position = (String) position.getSelectedItem();  
        String Username = username.getText();  
        String Password = password.getText();  
  
        if("").equals(Position)){  
            JOptionPane.showMessageDialog(null, "The admin rank field is required");  
        }else if("").equals(Username)){
```

```

        JOptionPane.showMessageDialog(null, "The username field is required");
    }else if("").equals(Password)){
        JOptionPane.showMessageDialog(null, "The password field is required");
    }else{
        String sql = "INSERT INTO admin (position , username, password) VALUES
("+Position+", "+Username+", "+ Password+)";

        stmt.executeUpdate(sql);

        JOptionPane.showMessageDialog(null, "New Admin Created");

        setVisible(false);

        Homepage object = new Homepage();

        object.setVisible(true);
    }
}

}catch (SQLException | HeadlessException e){
    JOptionPane.showMessageDialog(null, e);
}
}

private void ExitActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:

    System.exit(0);
}

```

```

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {

    /* Set the Nimbus look and feel */

    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code
(optional) ">

    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look
and feel.

        *                               For                               details                               see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

        */

    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(HomeSignup.class.getName()).log(java.util.loggi
ng.Level.SEVERE, null, ex);

```

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

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

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

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

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

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

```
}
```

```
//</editor-fold>
```

```
/* Create and display the form */
```

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

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

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

```
    }
```

```
});
```

```
}
```

```
// Variables declaration - do not modify
```

```
private javax.swing.JButton Exit;

private javax.swing.JLabel Password;

private javax.swing.JButton Signup;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel4;

private javax.swing.JPanel jPanel1;

private javax.swing.JPasswordField password;

private javax.swing.JComboBox position;

private javax.swing.JTextField username;

// End of variables declaration

}
```

ii. **Admin sign in**

```
import java.awt.HeadlessException;

import java.sql.Connection;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import javax.swing.JOptionPane;
```

```
/*
```

* To change this license header, choose License Headers in Project Properties.

* To change this template file, choose Tools | Templates

* and open the template in the editor.

*/

/**

*

* @author fola

*/

public class HomeSignIn extends javax.swing.JFrame {

/**

* Creates new form HomeSignIn

*/

Connection conn = null;

Statement stmt = null;

ResultSet rs = null;

public HomeSignIn() {

 super("Admin Login");

 initComponents();

 conn = dbaseConnx.openConnection();

}

```
/**
```

```
 * 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() {
```

```
    jPanel1 = new javax.swing.JPanel();
```

```
    jPanel2 = new javax.swing.JPanel();
```

```
    jLabel1 = new javax.swing.JLabel();
```

```
    Password = new javax.swing.JLabel();
```

```
    password = new javax.swing.JPasswordField();
```

```
    Signup = new javax.swing.JButton();
```

```
    Exit = new javax.swing.JButton();
```

```
    position = new javax.swing.JComboBox();
```

```
    jLabel4 = new javax.swing.JLabel();
```

```
    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
```

```
    jPanel2.setBackground(new java.awt.Color(0, 51, 204));
```

```
    jPanel2.setBorder(javax.swing.BorderFactory.createTitledBorder(null, "Admin
```

```
SignIn",                javax.swing.border.TitledBorder.DEFAULT_JUSTIFICATION,  
javax.swing.border.TitledBorder.DEFAULT_POSITION, new java.awt.Font("Tw Cen MT  
Condensed", 3, 24), new java.awt.Color(0, 0, 0))); // NOI18N
```

```
jLabel1.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 36)); // NOI18N
```

```
jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
```

```
jLabel1.setText("ADMIN SIGNIN");
```

```
jLabel1.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
Password.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N
```

```
Password.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
```

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

```
password.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N
```

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

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

```
        passwordActionPerformed(evt);
```

```
    }
```

```
});
```

```
Signup.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N
```

```
Signup.setText("SignIn");
```

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

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

```
Exit.setBackground(new java.awt.Color(255, 0, 0));  
Exit.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N  
Exit.setText("Exit");  
Exit.setToolTipText("");  
Exit.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));  
Exit.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        ExitActionPerformed(evt);  
    }  
});
```

```
position.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N  
position.setModel(new javax.swing.DefaultComboBoxModel(new String[] { "Rank 1",  
"Rank 2", "Rank 3", " " }));
```

```
jLabel4.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N  
jLabel4.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
```

```

jLabel4.setText("Position Held");

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(35, 35, 35)
            .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 357,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGroup(jPanel2Layout.createSequentialGroup()
                    .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addGroup(jPanel2Layout.createSequentialGroup()
                            .addGap(56, 56, 56)
                            .addComponent(Signup, javax.swing.GroupLayout.PREFERRED_SIZE,
                                92, javax.swing.GroupLayout.PREFERRED_SIZE))
                        .addComponent(Password,
                            javax.swing.GroupLayout.Alignment.TRAILING,
                            javax.swing.GroupLayout.PREFERRED_SIZE, 134,
                                javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE,
                        148, javax.swing.GroupLayout.PREFERRED_SIZE))
            )
        )
    )

```

```
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATIVE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
```

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

```
            .addComponent(position,
                javax.swing.GroupLayout.Alignment.TRAILING,
                javax.swing.GroupLayout.PREFERRED_SIZE, 146,
                javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
                jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
                .addComponent(password,
                    javax.swing.GroupLayout.PREFERRED_SIZE, 146,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
                .addComponent(Exit, javax.swing.GroupLayout.PREFERRED_SIZE, 95,
                    javax.swing.GroupLayout.PREFERRED_SIZE))))
```

```
        .addContainerGap(45, Short.MAX_VALUE))
```

```
    );
```

```
    jPanel2Layout.linkSize(javax.swing.SwingConstants.HORIZONTAL, new
        java.awt.Component[] {Password, jLabel4});
```

```
    jPanel2Layout.setVerticalGroup(
```

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

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

```
                .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 72,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
.addGap(22, 22, 22)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.BASELINE)

.addComponent(position, javax.swing.GroupLayout.PREFERRED_SIZE, 42,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE))

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

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.BASELINE)

.addComponent(password, javax.swing.GroupLayout.PREFERRED_SIZE, 43,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(Password, javax.swing.GroupLayout.PREFERRED_SIZE, 39,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(49, 49, 49)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.BASELINE)

.addComponent(Signup, javax.swing.GroupLayout.PREFERRED_SIZE, 35,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(Exit, javax.swing.GroupLayout.PREFERRED_SIZE, 35,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(38, 38, 38))

);
```

```
jPanel2Layout.linkSize(javax.swing.SwingConstants.VERTICAL, new
java.awt.Component[] {Password, jLabel4});
```

```
javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
            .addGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(1, 1, 1)
            );
jPanel1Layout.setVerticalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addGap()
        );
```

```
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,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

    );

layout.setVerticalGroup(

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

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

    );

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

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

    // TODO add your handling code here:

}
```

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

    // TODO add your handling code here:

    try {

        stmt = conn.createStatement();
```

```

String Position = (String) position.getSelectedItem();

String Pass = password.getText();


String sql = "SELECT * FROM admin WHERE position = '"+ Position +" "&&
password = '"+ Pass+"'";

rs = stmt.executeQuery(sql);

if("").equals(Pass) || "".equals(Position)){

    JOptionPane.showMessageDialog(null, "Password or Position field is
required");

}

else if(rs.next()){

    JOptionPane.showMessageDialog(null, "Staff login was successful");

    setVisible(false);

    Homepage object = new Homepage ();

    object.setVisible(true);

}else{

    JOptionPane.showMessageDialog(null, "Password doesn't match");

}

}catch (SQLException | HeadlessException e){

    JOptionPane.showMessageDialog(null, e);

}

```

```
}
```

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

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

```
    System.exit(0);
```

```
}
```

```
/**
```

```
 * @param args the command line arguments
```

```
 */
```

```
public static void main(String args[]) {
```

```
    /* Set the Nimbus look and feel */
```

```
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional)
```

```
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look
    and feel.
```

```
    *                               For                               details                               see
```

```
    http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
```

```
    */
```

```
    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(HomeSignIn.class.getName()).log(java.util.logging.L
evel.SEVERE, null, ex);
```

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

```
java.util.logging.Logger.getLogger(HomeSignIn.class.getName()).log(java.util.logging.L
evel.SEVERE, null, ex);
```

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

```
java.util.logging.Logger.getLogger(HomeSignIn.class.getName()).log(java.util.logging.L
evel.SEVERE, null, ex);
```

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

```
java.util.logging.Logger.getLogger(HomeSignIn.class.getName()).log(java.util.logging.L
evel.SEVERE, null, ex);
```

```
    }
```

```
//</editor-fold>
```

```
/* Create and display the form */
```

```
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
```

```

        new HomeSignIn().setVisible(true);
    }

});
}

// Variables declaration - do not modify
private javax.swing.JButton Exit;
private javax.swing.JLabel Password;
private javax.swing.JButton Signup;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel4;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JPasswordField password;
private javax.swing.JComboBox position;

// End of variables declaration
}

```

iii. Crime Record Homepage

```

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

```

```
/**
```

```
*
```

```
* @author fola
```

```
*/
```

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

```
    public Homepage() {
```

```
        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() {
```

```
    jPanel1 = new javax.swing.JPanel();
```

```
    jLabel1 = new javax.swing.JLabel();
```

```
    editrecord = new javax.swing.JButton();
```

```
showrecords = new javax.swing.JButton();
```

```
viewAdminRecords = new javax.swing.JButton();
```

```
SignIn = new javax.swing.JButton();
```

```
jButton5 = new javax.swing.JButton();
```

```
addCriminal = new javax.swing.JButton();
```

```
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();
```

```
jLabel7 = new javax.swing.JLabel();
```

```
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
```

```
jPanel1.setBackground(new java.awt.Color(0, 51, 153));
```

```
jPanel1.setBorder(javax.swing.BorderFactory.createTitledBorder(null, "Application  
Homepage", javax.swing.border.TitledBorder.DEFAULT_JUSTIFICATION,  
javax.swing.border.TitledBorder.DEFAULT_POSITION, new java.awt.Font("Agency FB", 3,  
24))); // NOI18N
```

```
jLabel1.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 40)); // NOI18N
```

```
jLabel1.setForeground(new java.awt.Color(255, 255, 255));
```

```
jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
```

```
jLabel1.setText("CRIME RECORD AND INFORMATION MANAGEMENT SYSTEM");  
jLabel1.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
editrecord.setIcon(new  
javax.swing.ImageIcon(getClass().getResource("/images/avatar5.png"))); // NOI18N  
editrecord.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        editrecordActionPerformed(evt);  
    }  
});
```

```
showrecords.setIcon(new  
javax.swing.ImageIcon(getClass().getResource("/images/group.jpg"))); // NOI18N  
showrecords.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        showrecordsActionPerformed(evt);  
    }  
});
```

```
viewAdminRecords.setIcon(new  
javax.swing.ImageIcon(getClass().getResource("/images/operation.png"))); // NOI18N  
viewAdminRecords.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {
```



```
        viewAdminRecordsActionPerformed(evt);  
    }  
});
```

```
SignIn.setIcon(new  
javax.swing.ImageIcon(getClass().getResource("/images/admin.jpg"))); // NOI18N  
  
SignIn.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        SignInActionPerformed(evt);  
    }  
});
```

```
 jButton5.setIcon(new  
javax.swing.ImageIcon(getClass().getResource("/images/add admin.jpg"))); // NOI18N  
  
jButton5.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton5ActionPerformed(evt);  
    }  
});
```

```
addCriminal.setIcon(new  
javax.swing.ImageIcon(getClass().getResource("/images/new.jpg"))); // NOI18N  
  
addCriminal.addActionListener(new java.awt.event.ActionListener() {
```

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

```
jLabel2.setFont(new java.awt.Font("Tw Cen MT Condensed", 1, 24)); // NOI18N  
jLabel2.setForeground(new java.awt.Color(255, 255, 255));  
jLabel2.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);  
jLabel2.setText("Add Criminal");  
jLabel2.setToolTipText("");  
jLabel2.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
jLabel3.setFont(new java.awt.Font("Tw Cen MT Condensed", 1, 24)); // NOI18N  
jLabel3.setForeground(new java.awt.Color(255, 255, 255));  
jLabel3.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);  
jLabel3.setText("View All Records");  
jLabel3.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
jLabel4.setFont(new java.awt.Font("Tw Cen MT Condensed", 1, 24)); // NOI18N  
jLabel4.setForeground(new java.awt.Color(255, 255, 255));  
jLabel4.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);  
jLabel4.setText("Edit Criminal Record");  
jLabel4.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
jLabel5.setFont(new java.awt.Font("Tw Cen MT Condensed", 1, 24)); // NOI18N
jLabel5.setForeground(new java.awt.Color(255, 255, 255));
jLabel5.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel5.setText("Admin SignIn");
jLabel5.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
jLabel6.setFont(new java.awt.Font("Tw Cen MT Condensed", 1, 24)); // NOI18N
jLabel6.setForeground(new java.awt.Color(255, 255, 255));
jLabel6.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel6.setText("View Admin Records");
jLabel6.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
jLabel7.setFont(new java.awt.Font("Tw Cen MT Condensed", 1, 24)); // NOI18N
jLabel7.setForeground(new java.awt.Color(255, 255, 255));
jLabel7.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel7.setText("Admin SignUp");
jLabel7.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup())

        .addContainerGap(62, Short.MAX_VALUE)

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.LEADING)

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup())

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Al
ignment.TRAILING)

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

        .addComponent(addCriminal,
javax.swing.GroupLayout.PREFERRED_SIZE,                    136,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(jButton5, javax.swing.GroupLayout.PREFERRED_SIZE,
136, javax.swing.GroupLayout.PREFERRED_SIZE))

        .addComponent(jLabel2,    javax.swing.GroupLayout.PREFERRED_SIZE,
163, javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(27, 27, 27))

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup())

        .addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, 163,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(19, 19, 19)))

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.LEADING)

```

```

        .addGroup(jPanel1Layout.createSequentialGroup())

        .addGap(61, 61, 61)

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

            .addComponent(editrecord, javax.swing.GroupLayout.PREFERRED_SIZE,
134, javax.swing.GroupLayout.PREFERRED_SIZE)

            .addComponent(SignIn, javax.swing.GroupLayout.PREFERRED_SIZE,
136, javax.swing.GroupLayout.PREFERRED_SIZE)))

        .addGroup(jPanel1Layout.createSequentialGroup())

        .addGap(35, 35, 35)

        .addComponent(jLabel4))

        .addGroup(jPanel1Layout.createSequentialGroup())

        .addGap(44, 44, 44)

        .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 174,
javax.swing.GroupLayout.PREFERRED_SIZE)))

        .addGap(17, 17, 17)

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

            .addGroup(jPanel1Layout.createSequentialGroup())

                .addGap(67, 67, 67)

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

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

```

```

        .addComponent(viewAdminRecords,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGroup(jPanel1Layout.createSequentialGroup())
        .addGap(46, 46, 46)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
ignment.LEADING)
        .addComponent(jLabel6)
        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE,
172, javax.swing.GroupLayout.PREFERRED_SIZE))))
        .addGap(95, 95, 95))
        .addGroup(jPanel1Layout.createSequentialGroup())
        .addGap(29, 29, 29)
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 718,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
    );
    jPanel1Layout.setVerticalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup())
        .addContainerGap()
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 72,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(35, 35, 35)

```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addComponent(editrecord, javax.swing.GroupLayout.PREFERRED_SIZE, 113,
javax.swing.GroupLayout.PREFERRED_SIZE)

    .addComponent(addCriminal, javax.swing.GroupLayout.PREFERRED_SIZE,
113, javax.swing.GroupLayout.PREFERRED_SIZE)

    .addComponent(showrecords, javax.swing.GroupLayout.PREFERRED_SIZE,
113, javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(30, 30, 30)

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

    .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 41,
javax.swing.GroupLayout.PREFERRED_SIZE)

    .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 41,
javax.swing.GroupLayout.PREFERRED_SIZE)

    .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 41,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)

    .addComponent(jButton5, javax.swing.GroupLayout.PREFERRED_SIZE, 114,
javax.swing.GroupLayout.PREFERRED_SIZE)

    .addComponent(SignIn, javax.swing.GroupLayout.PREFERRED_SIZE, 0,
Short.MAX_VALUE)

    .addComponent(viewAdminRecords,
javax.swing.GroupLayout.PREFERRED_SIZE, 0, Short.MAX_VALUE))
```

```

        .addGap(31, 31, 31)

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.BASELINE)

            .addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, 41,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 41,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 41,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addContainerGap(25, Short.MAX_VALUE))

);

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.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

);

layout.setVerticalGroup(

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

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

);

```



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

```
private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    setVisible(false);  
    HomeSignup object = new HomeSignup();  
    object.setVisible(true);  
}
```

```
private void addCriminalActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    setVisible(false);  
    Register object = new Register();  
    object.setVisible(true);  
}
```

```
private void showrecordsActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    setVisible(false);  
    ShowRecords object = new ShowRecords();  
    object.setVisible(true);  
}
```

```
}
```

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

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

```
    setVisible(false);
```

```
    HomeSignIn object = new HomeSignIn();
```

```
    object.setVisible(true);
```

```
}
```

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

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

```
    setVisible(false);
```

```
    HomeView object = new HomeView();
```

```
    object.setVisible(true);
```

```
}
```

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

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

```
    setVisible(false);
```

```
    SEdit object = new SEdit();
```

```
    object.setVisible(true);
```

```
}
```

```

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional)
">

    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look
and feel.

        *           For           details           see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

    */

    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(Homepage.class.getName()).log(java.util.logging.Le

```

```
vel.SEVERE, null, ex);
```

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

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

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

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

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

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

```
    }
```

```
//</editor-fold>
```

```
/* Create and display the form */
```

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

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

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

```
    }
```

```
});
```

```
}
```

```
// Variables declaration - do not modify

private javax.swing.JButton SignIn;

private javax.swing.JButton addCriminal;

private javax.swing.JButton editrecord;

private javax.swing.JButton jButton5;

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.JPanel jPanel1;

private javax.swing.JButton showrecords;

private javax.swing.JButton viewAdminRecords;

// End of variables declaration
}
```

iv. Crime Registration

```
import java.awt.HeadlessException;

import java.awt.Image;

import java.io.File;

import java.io.FileInputStream;

import java.io.FileNotFoundException;
```

```
import java.sql.Connection;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.ImageIcon;

import javax.swing.JFileChooser;

import javax.swing.JOptionPane;

import javax.swing.filechooser.FileNameExtensionFilter;
```

```
/*
```

```
 * To change this license header, choose License Headers in Project Properties.
```

```
 * To change this template file, choose Tools | Templates
```

```
 * and open the template in the editor.
```

```
*/
```

```
/**
```

```
 *
```

```
 * @author fola
```

```
*/
```

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

```
/**
 * Creates new form Register
 */
Connection conn = null;
Statement stmt = null;
ResultSet rs = null;
PreparedStatement st = null;
private String path;
private String s;

public Register() {
    super("Add Criminal info");
    conn = dbaseConnx.openConnection();
    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() {  
  
    jPanel1 = new javax.swing.JPanel();  
    jLabel1 = new javax.swing.JLabel();  
    jLabel2 = new javax.swing.JLabel();  
    Upload = new javax.swing.JButton();  
    img = new javax.swing.JLabel();  
    fullnames = new javax.swing.JTextField();  
    age = new javax.swing.JTextField();  
    fileNumber = new javax.swing.JTextField();  
    jLabel5 = new javax.swing.JLabel();  
    nationality = new javax.swing.JComboBox();  
    jLabel7 = new javax.swing.JLabel();  
    jLabel8 = new javax.swing.JLabel();  
    gender = new javax.swing.JComboBox();  
    jLabel6 = new javax.swing.JLabel();  
    offense = new javax.swing.JComboBox();  
    jLabel9 = new javax.swing.JLabel();  
    jLabel10 = new javax.swing.JLabel();  
    bail = new javax.swing.JComboBox();  
    jLabel11 = new javax.swing.JLabel();  
    jail = new javax.swing.JComboBox();  
}
```



```
jButton2 = new javax.swing.JButton();

Register = new javax.swing.JButton();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);


jPanel1.setBackground(new java.awt.Color(0, 51, 204));

jPanel1.setBorder(javax.swing.BorderFactory.createTitledBorder(null, "Add Criminal
Page",
                    javax.swing.border.TitledBorder.DEFAULT_JUSTIFICATION,
javax.swing.border.TitledBorder.DEFAULT_POSITION, new java.awt.Font("Agency FB", 3,
24))); // NOI18N


jLabel1.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 36)); // NOI18N
jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel1.setText("CRIMINAL RECORD");


jLabel2.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N
jLabel2.setText("Fullnames");


Upload.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N
Upload.setText("Upload Image");
Upload.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        UploadActionPerformed(evt);
    }
});
```

```
}  
));
```

```
fullnames.setBorder(javax.swing.BorderFactory.createEtchedBorder());  
fullnames.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));  
fullnames.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        fullnamesActionPerformed(evt);  
    }  
});
```

```
age.setBorder(javax.swing.BorderFactory.createEtchedBorder());  
age.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
fileNumber.setBorder(javax.swing.BorderFactory.createEtchedBorder());  
fileNumber.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
jLabel5.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N  
jLabel5.setText("Type of Offense");
```

```
nationality.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N  
nationality.setModel(new javax.swing.DefaultComboBoxModel(new String[]  
{ "Nigerian", "Others " }));
```

```
nationality.setBorder(javax.swing.BorderFactory.createEtchedBorder());  
nationality.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));  
nationality.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        nationalityActionPerformed(evt);  
    }  
});
```

```
jLabel7.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N  
jLabel7.setText("Gender");
```

```
jLabel8.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N  
jLabel8.setText("Age");
```

```
gender.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N  
gender.setModel(new javax.swing.DefaultComboBoxModel(new String[] { "Male",  
"Female" }));  
gender.setBorder(javax.swing.BorderFactory.createEtchedBorder());  
gender.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));  
gender.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        genderActionPerformed(evt);  
    }  
}
```

```
});
```

```
jLabel6.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N
```

```
jLabel6.setText("Nationality");
```

```
offense.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N
```

```
offense.setModel(new javax.swing.DefaultComboBoxModel(new String[] { "Suicide  
Attempt", "Loot", "Theft", "Student Cultism", "Pipeline Vandalism" }));
```

```
offense.setBorder(javax.swing.BorderFactory.createEtchedBorder());
```

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

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

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

```
        offenseActionPerformed(evt);
```

```
    }
```

```
});
```

```
jLabel9.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N
```

```
jLabel9.setText("Case/ File Number");
```

```
jLabel10.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N
```

```
jLabel10.setText("Bail Status");
```

```
bail.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N
```

```
bail.setModel(new javax.swing.DefaultComboBoxModel(new String[] { "Yes", "No"
}));
```

```
bail.setBorder(javax.swing.BorderFactory.createEtchedBorder());
```

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

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

```
jLabel11.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N
```

```
jLabel11.setText("Jail Term");
```

```
jail.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N
```

```
jail.setModel(new javax.swing.DefaultComboBoxModel(new String[] { "1-5 years", "5
-10 years", "10 - 20 years", "20-50 years", "50-100 years" }));
```

```
jail.setBorder(javax.swing.BorderFactory.createEtchedBorder());
```

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

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



```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addGroup(jPanel1Layout.createSequentialGroup()

        .addGap(112, 112, 112)

        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 275, javax.swing.GroupLayout.PREFERRED_SIZE))

    .addGroup(jPanel1Layout.createSequentialGroup()

        .addGap(31, 31, 31)

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

            .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 147, javax.swing.GroupLayout.PREFERRED_SIZE)

            .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 147, javax.swing.GroupLayout.PREFERRED_SIZE)

            .addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, 147, javax.swing.GroupLayout.PREFERRED_SIZE)

            .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 147, javax.swing.GroupLayout.PREFERRED_SIZE)

            .addComponent(jLabel8, javax.swing.GroupLayout.PREFERRED_SIZE, 147, javax.swing.GroupLayout.PREFERRED_SIZE)

            .addComponent(jLabel9, javax.swing.GroupLayout.PREFERRED_SIZE, 147, javax.swing.GroupLayout.PREFERRED_SIZE)

            .addComponent(jLabel10, javax.swing.GroupLayout.PREFERRED_SIZE, 147, javax.swing.GroupLayout.PREFERRED_SIZE)

            .addComponent(jLabel11, javax.swing.GroupLayout.PREFERRED_SIZE, 147, javax.swing.GroupLayout.PREFERRED_SIZE))
```

```

        .addGap(18, 18, 18)

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

            .addComponent(offense,    javax.swing.GroupLayout.PREFERRED_SIZE,
164, javax.swing.GroupLayout.PREFERRED_SIZE)

            .addComponent(fileNumber,
javax.swing.GroupLayout.PREFERRED_SIZE,                164,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addComponent(bail, javax.swing.GroupLayout.PREFERRED_SIZE, 164,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addComponent(jail, javax.swing.GroupLayout.PREFERRED_SIZE, 164,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addGroup(jPanel1Layout.createSequentialGroup())

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

                .addComponent(age,    javax.swing.GroupLayout.PREFERRED_SIZE,
164, javax.swing.GroupLayout.PREFERRED_SIZE)

                .addComponent(fullnames,
javax.swing.GroupLayout.PREFERRED_SIZE,                164,
javax.swing.GroupLayout.PREFERRED_SIZE)

                .addComponent(gender,
javax.swing.GroupLayout.PREFERRED_SIZE,                164,
javax.swing.GroupLayout.PREFERRED_SIZE)

                .addComponent(nationality,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE,                164,
javax.swing.GroupLayout.PREFERRED_SIZE))

```



```

        .addGap(40, 40, 40)

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

            .addComponent(Upload,
                javax.swing.GroupLayout.PREFERRED_SIZE, 137,
                javax.swing.GroupLayout.PREFERRED_SIZE)

            .addComponent(img, javax.swing.GroupLayout.PREFERRED_SIZE,
                137, javax.swing.GroupLayout.PREFERRED_SIZE))))

        .addGroup(jPanel1Layout.createSequentialGroup()

            .addGap(146, 146, 146)

            .addComponent(Register, javax.swing.GroupLayout.PREFERRED_SIZE, 111,
                javax.swing.GroupLayout.PREFERRED_SIZE)

            .addGap(43, 43, 43)

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

            .addContainerGap(29, Short.MAX_VALUE))

        );

        jPanel1Layout.linkSize(javax.swing.SwingConstants.HORIZONTAL, new
        java.awt.Component[] {Register, jButton2});

        jPanel1Layout.setVerticalGroup(

            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addGroup(jPanel1Layout.createSequentialGroup()

                .addGap(21, 21, 21)

```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
```

```
.addGroup(jPanel1Layout.createSequentialGroup()
```

```
.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 43, javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
.addGap(18, 18, 18)
```

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

```
.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 40, javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
.addComponent(fullnames, javax.swing.GroupLayout.PREFERRED_SIZE, 40, javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
.addGap(18, 18, 18)
```

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

```
.addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, 40, javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
.addComponent(gender, 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(age, javax.swing.GroupLayout.PREFERRED_SIZE, 40, javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
.addComponent(jLabel8, javax.swing.GroupLayout.PREFERRED_SIZE, 40, javax.swing.GroupLayout.PREFERRED_SIZE)))
```

```
.addComponent(img, javax.swing.GroupLayout.PREFERRED_SIZE, 153,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.BASELINE)

.addComponent(nationality, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(Upload))

.addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.BASELINE)

.addComponent(offense, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.BASELINE)

.addComponent(fileNumber, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(jLabel9, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(18, 18, 18)
```

```

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

            .addComponent(jLabel10, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
                javax.swing.GroupLayout.PREFERRED_SIZE)

            .addComponent(bail, 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(jLabel11, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
                javax.swing.GroupLayout.PREFERRED_SIZE)

            .addComponent(jail, javax.swing.GroupLayout.PREFERRED_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(35, 35, 35)

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

            .addComponent(Register, javax.swing.GroupLayout.DEFAULT_SIZE, 43,
                Short.MAX_VALUE)

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

        .addContainerGap(27, Short.MAX_VALUE)

    );

    jPanel1Layout.linkSize(javax.swing.SwingConstants.VERTICAL, new
        java.awt.Component[] {age, gender, nationality, offense});

```

```
jPanel1Layout.linkSize(javax.swing.SwingConstants.VERTICAL, new
java.awt.Component[] {bail, fileNumber, jail});
```

```

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(10, 10, 10)
            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        );

layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(10, 10, 10)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(10, 10, 10)
        );

pack();

```

```
}// </editor-fold>
```

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

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

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

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

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

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

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

```
try{
```

```
    stmt = conn.createStatement();
```

```
    String q = "INSERT INTO register values (?, ?, ?, ?, ?, ?, ?, ?, ?)";
```

```
    File file = new File(s);
```

```
    FileInputStream img = new FileInputStream(file);
```

```
    try(java.sql.PreparedStatement stmt = conn.prepareStatement(q)){
```

```
        stmt.setString(1, fullnames.getText());
```

```
        stmt.setString(2, (String) gender.getSelectedItemAt());
```

```
        stmt.setString(3, age.getText());
```

```
        stmt.setString(4, (String) nationality.getSelectedItemAt());
```

```
        stmt.setString(5, (String) offense.getSelectedItemAt());
```

```
        stmt.setString(6, fileNumber.getText());
```

```
        stmt.setString(7, (String) bail.getSelectedItemAt());
```

```
        stmt.setString(8, (String) jail.getSelectedItemAt());
```

```
        stmt.setBinaryStream(9, img, (int)file.length());
```

```
        stmt.executeUpdate();
```

```
        JOptionPane.showMessageDialog(null, "image is saved");
```

```

        setVisible(false);

        ShowRecords object = new ShowRecords();

        object.setVisible(true);
    }
} catch (SQLException | HeadlessException e ){

    JOptionPane.showMessageDialog(null, e);

} catch (FileNotFoundException ex) {

    Logger.getLogger(Register.class.getName()).log(Level.SEVERE, null, ex);

}

}

```

```

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

    // TODO add your handling code here:

    System.exit(0);

}

```

```

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

    // TODO add your handling code here:

    JFileChooser chooser = new JFileChooser();

    FileNameExtensionFilter filter = new FileNameExtensionFilter("Image Files", "jpg",
"png", "gif", "jpeg");

```



```

chooser.setFileFilter(filter);

int returnval = chooser.showOpenDialog(this);

chooser.setFileSelectionMode(JFileChooser.FILES_ONLY);


if (returnval == JFileChooser.APPROVE_OPTION)
{
    File file = chooser.getSelectedFile();

    path = file.getAbsolutePath();

    img.setIcon(Resizeimage(path));

    s = path;

    System.out.println(s);
}
}


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

    // TODO add your handling code here:

}


/**
 * @param args the command line arguments
 */
public static void main(String args[]) {

    /* Set the Nimbus look and feel */

```

```

    </editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional)
">

    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look
    and feel.

        *                               For                               details                               see
        http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

    */

    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(Register.class.getName()).log(java.util.logging.Level.
        SEVERE, null, ex);

    } catch (InstantiationException ex) {

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

    } catch (IllegalAccessException ex) {

```

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

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

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

```
    }
```

```
//</editor-fold>
```

```
/* Create and display the form */
```

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

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

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

```
    }
```

```
});
```

```
}
```

```
// Variables declaration - do not modify
```

```
private javax.swing.JButton Register;
```

```
private javax.swing.JButton Upload;
```

```
private javax.swing.JTextField age;
```

```
private javax.swing.JComboBox bail;
```

```
private javax.swing.JTextField fileNumber;
```

```
private javax.swing.JTextField fullnames;

private javax.swing.JComboBox gender;

private javax.swing.JLabel img;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel10;

private javax.swing.JLabel jLabel11;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel5;

private javax.swing.JLabel jLabel6;

private javax.swing.JLabel jLabel7;

private javax.swing.JLabel jLabel8;

private javax.swing.JLabel jLabel9;

private javax.swing.JPanel jPanel1;

private javax.swing.JComboBox jail;

private javax.swing.JComboBox nationality;

private javax.swing.JComboBox offense;

// End of variables declaration
```

```
private ImageIcon Resizeimage(String Imagepath) {

    ImageIcon myimage = new ImageIcon(Imagepath);

    Image imgs = myimage.getImage();

    Image newimg = imgs.getScaledInstance(imgs.getWidth(),imgs.getHeight(),
```

```
Image.SCALE_SMOOTH);

    ImageIcon image = new ImageIcon(newimg);

    System.out.println(image);

    return image;

}

}
```

v. Edit Crime Records

```
import java.awt.HeadlessException;

import java.awt.Image;

import java.awt.image.BufferedImage;

import java.io.ByteArrayInputStream;

import java.io.File;

import java.io.FileInputStream;

import java.io.FileNotFoundException;

import java.io.IOException;

import java.sql.Blob;

import java.sql.Connection;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;
```

```
import java.util.logging.Level;

import java.util.logging.Logger;

import javax.imageio.ImageIO;

import javax.swing.ImageIcon;

import javax.swing.JFileChooser;

import javax.swing.JOptionPane;

import javax.swing.filechooser.FileNameExtensionFilter;
```

```
/*
```

```
 * To change this license header, choose License Headers in Project Properties.
```

```
 * To change this template file, choose Tools | Templates
```

```
 * and open the template in the editor.
```

```
*/
```

```
/**
```

```
 *
```

```
 * @author fola
```

```
*/
```

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

```
/**
```

```
 * Creates new form SEdit
```

```
*/
```

```
Connection conn = null;
```

```
Statement stmt = null;
```

```
ResultSet rs = null;
```

```
PreparedStatement st = null;
```

```
private String path;
```

```
private String s;
```

```
public SEdit() {
```

```
    super("Edit Criminal info");
```

```
    conn = dbaseConnx.openConnection();
```

```
    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() {
```

```
    jPanel1 = new javax.swing.JPanel();
```

```
jPanel4 = new javax.swing.JPanel();  
jLabel1 = new javax.swing.JLabel();  
file = new javax.swing.JLabel();  
imageLabel = new javax.swing.JLabel();  
fileNumba = new javax.swing.JTextField();  
age = new javax.swing.JTextField();  
fullnames = new javax.swing.JTextField();  
jLabel21 = new javax.swing.JLabel();  
jLabel22 = new javax.swing.JLabel();  
jLabel23 = new javax.swing.JLabel();  
jLabel24 = new javax.swing.JLabel();  
jLabel25 = new javax.swing.JLabel();  
jLabel26 = new javax.swing.JLabel();  
jLabel27 = new javax.swing.JLabel();  
Register2 = new javax.swing.JButton();  
select = new javax.swing.JButton();  
Update = new javax.swing.JButton();  
offenze = new javax.swing.JTextField();  
bail = new javax.swing.JTextField();  
jaail = new javax.swing.JTextField();  
gender = new javax.swing.JTextField();  
Nation = new javax.swing.JTextField();  
delete = new javax.swing.JButton();
```



```
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
```

```
jPanel4.setBackground(new java.awt.Color(0, 51, 204));
```

```
jPanel4.setBorder(javax.swing.BorderFactory.createTitledBorder(null, "Edit Criminal  
Record      Page",      javax.swing.border.TitledBorder.DEFAULT_JUSTIFICATION,  
javax.swing.border.TitledBorder.DEFAULT_POSITION, new java.awt.Font("Agency FB", 3,  
24))); // NOI18N
```

```
jLabel1.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 36)); // NOI18N
```

```
jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
```

```
jLabel1.setText("EDIT CRIMINAL RECORD");
```

```
file.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N
```

```
file.setText("Case/ File Number");
```

```
fileNumba.setBorder(javax.swing.BorderFactory.createEtchedBorder());
```

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

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

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

```
        fileNumbaActionPerformed(evt);
```

```
    }
```

```
});
```

```
age.setBorder(javax.swing.BorderFactory.createEtchedBorder());  
age.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
fullnames.setBorder(javax.swing.BorderFactory.createEtchedBorder());  
fullnames.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
jLabel21.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N  
jLabel21.setText("Type of Offense");
```

```
jLabel22.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N  
jLabel22.setText("Gender");
```

```
jLabel23.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N  
jLabel23.setText("Age");
```

```
jLabel24.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N  
jLabel24.setText("Nationality");
```

```
jLabel25.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N  
jLabel25.setText("Fullnames");
```

```
jLabel26.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N
```

```
jLabel26.setText("Bail Status");
```

```
jLabel27.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 18)); // NOI18N
```

```
jLabel27.setText("Jail Term");
```

```
Register2.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 24)); // NOI18N
```

```
Register2.setText("Exit");
```

```
Register2.addActionListener(new java.awt.event.ActionListener() {
```

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

```
        Register2ActionPerformed(evt);
```

```
    }
```

```
});
```

```
select.setText("SEARCH RECORD");
```

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

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

```
        selectActionPerformed(evt);
```

```
    }
```

```
});
```

```
Update.setBackground(new java.awt.Color(0, 102, 204));
```

```
Update.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 24)); // NOI18N
```

```
Update.setText("Update");
```

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

```
offenze.setBorder(javax.swing.BorderFactory.createEtchedBorder());  
offenze.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
baiil.setBorder(javax.swing.BorderFactory.createEtchedBorder());  
baiil.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
jaiil.setBorder(javax.swing.BorderFactory.createEtchedBorder());  
jaiil.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
gender.setBorder(javax.swing.BorderFactory.createEtchedBorder());  
gender.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
Nation.setBorder(javax.swing.BorderFactory.createEtchedBorder());  
Nation.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
delete.setBackground(new java.awt.Color(255, 51, 0));  
delete.setFont(new java.awt.Font("Tw Cen MT Condensed", 0, 24)); // NOI18N
```



```

        .addComponent(jLabel24, javax.swing.GroupLayout.PREFERRED_SIZE,
147, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(jLabel23, javax.swing.GroupLayout.PREFERRED_SIZE,
147, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(jLabel25, javax.swing.GroupLayout.PREFERRED_SIZE,
147, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(jLabel26, javax.swing.GroupLayout.PREFERRED_SIZE,
147, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(jLabel27, javax.swing.GroupLayout.PREFERRED_SIZE,
147, javax.swing.GroupLayout.PREFERRED_SIZE))

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATE
D)

        .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)

        .addComponent(fullnames, javax.swing.GroupLayout.PREFERRED_SIZE,
164, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(baiil, javax.swing.GroupLayout.PREFERRED_SIZE, 164,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(jaiil, javax.swing.GroupLayout.PREFERRED_SIZE, 164,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGroup(jPanel4Layout.createSequentialGroup()

        .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)

        .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)

        .addComponent(age, javax.swing.GroupLayout.PREFERRED_SIZE,

```

```

164, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(fileNumba,
javax.swing.GroupLayout.PREFERRED_SIZE, 164,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(gender,
javax.swing.GroupLayout.PREFERRED_SIZE, 164,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(Nation,
javax.swing.GroupLayout.PREFERRED_SIZE, 164,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(delete,
javax.swing.GroupLayout.Alignment.TRAILING))

        .addComponent(offenze,
javax.swing.GroupLayout.PREFERRED_SIZE, 164,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(40, 40, 40)

        .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(Register2,
javax.swing.GroupLayout.PREFERRED_SIZE, 111,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(imageLabel,
javax.swing.GroupLayout.PREFERRED_SIZE, 193,
javax.swing.GroupLayout.PREFERRED_SIZE))))))

        .addGroup(jPanel4Layout.createSequentialGroup()

        .addGap(41, 41, 41)

        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 350,

```

```

javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(35, 35, 35)

        .addComponent(select, javax.swing.GroupLayout.PREFERRED_SIZE, 143,
javax.swing.GroupLayout.PREFERRED_SIZE)))

        .addContainerGap(38, Short.MAX_VALUE))

        .addGroup(jPanel4Layout.createSequentialGroup())

        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

        .addComponent(Update, javax.swing.GroupLayout.PREFERRED_SIZE, 111,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(428, 428, 428))

    );

```

```

jPanel4Layout.linkSize(javax.swing.SwingConstants.HORIZONTAL, new
java.awt.Component[] {Register2, Update, delete});

```

```

jPanel4Layout.setVerticalGroup(

jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel4Layout.createSequentialGroup())

.addGap(21, 21, 21)

.addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.BASELINE)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 43,
javax.swing.GroupLayout.PREFERRED_SIZE)

```



```

        .addComponent(select, javax.swing.GroupLayout.PREFERRED_SIZE, 39,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(18, 18, 18)

        .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.TRAILING))

        .addGroup(jPanel4Layout.createSequentialGroup())

        .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Al
ignment.BASELINE))

        .addComponent(file, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(fileNumba, javax.swing.GroupLayout.PREFERRED_SIZE,
40, javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(18, 18, 18)

        .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Al
ignment.BASELINE))

        .addComponent(jLabel22, javax.swing.GroupLayout.PREFERRED_SIZE,
40, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(gender, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(18, 18, 18)

        .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Al
ignment.BASELINE))

        .addComponent(age, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(jLabel23, javax.swing.GroupLayout.PREFERRED_SIZE,
40, javax.swing.GroupLayout.PREFERRED_SIZE))

```

```
.addGap(18, 18, 18)

.addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel24, javax.swing.GroupLayout.PREFERRED_SIZE, 40, javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(Nation, javax.swing.GroupLayout.PREFERRED_SIZE, 40, javax.swing.GroupLayout.PREFERRED_SIZE))

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

.addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel21, javax.swing.GroupLayout.PREFERRED_SIZE, 40, javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(offenze, javax.swing.GroupLayout.PREFERRED_SIZE, 40, javax.swing.GroupLayout.PREFERRED_SIZE))

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

.addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(fullnames, javax.swing.GroupLayout.PREFERRED_SIZE, 40, javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(jLabel25, javax.swing.GroupLayout.PREFERRED_SIZE, 40, javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(18, 18, 18)

.addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
```

```
.addComponent(jLabel26, javax.swing.GroupLayout.PREFERRED_SIZE,
40, javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(baail, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(18, 18, 18)

.addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Al
ignment.BASELINE)

.addComponent(jLabel27, javax.swing.GroupLayout.PREFERRED_SIZE,
40, javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(jaiil, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(34, 34, 34))

.addGroup(jPanel4Layout.createSequentialGroup()

.addComponent(imageLabel, javax.swing.GroupLayout.PREFERRED_SIZE,
190, javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(279, 279, 279)))

.addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.BASELINE)

.addComponent(Register2, javax.swing.GroupLayout.PREFERRED_SIZE, 43,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(Update)

.addComponent(delete, javax.swing.GroupLayout.PREFERRED_SIZE, 43,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addContainerGap(51, Short.MAX_VALUE))

);
```

```
jPanel4Layout.linkSize(javax.swing.SwingConstants.VERTICAL, new
java.awt.Component[] {Register2, Update});
```

```
javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addComponent(jPanel4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
        );
jPanel1Layout.setVerticalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGroup(jPanel1Layout.createParallelGroup(Alignment.TRAILING)
                .addComponent(jPanel4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(0, 13, Short.MAX_VALUE))
        );
```

```
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(10, 10, 10)
            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        )
);

layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addGap(10, 10, 10)
        )
);

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

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

```
private void Register2ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    System.exit(0);  
}
```

```
private void UpdateActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    try {  
        stmt = conn.createStatement();  
        int Id = Integer.parseInt(fileNumba.getText());  
        String Fullnames = fullnames.getText();  
        String Age = age.getText();  
        String Gender = gender.getText();  
        String Bail = baiil.getText();  
        String Jail = jail.getText();  
        String Nationality = Nation.getText();  
        String Offense = offense.getText();  
  
        if("").equals(Fullnames)){  
            JOptionPane.showMessageDialog(null, "The fullnames field is required");  
        }else if("").equals(Age){  
            JOptionPane.showMessageDialog(null, "The age field is required");  
        }  
    }  
}
```

```

}else if("").equals(Gender)){

    JOptionPane.showMessageDialog(null, "The gender field is required");
}else if("").equals(Bail)){

    JOptionPane.showMessageDialog(null, "The bail field is required");
}else if("").equals(Jail)){

    JOptionPane.showMessageDialog(null, "The jail field is required");
}else if("").equals(Nationality)){

    JOptionPane.showMessageDialog(null, "The nationality field is required");
}else if("").equals(Offense)){

    JOptionPane.showMessageDialog(null, "The offense field is required");
}else{

    String sql = "UPDATE register SET  fullnames = '"+Fullnames+"', age = '"+ Age+"',
"

    + "gender = '"+ Gender +"', bail = '"+ Bail +"', jail = '"+ Jail +"', nationality = '"+
Nationality +"', offense = '"+ Offense+" WHERE fileNumber = '"+Id+"''";

    stmt.executeUpdate(sql);

    JOptionPane.showMessageDialog(null, "Criminal Record Successfully
Updated");

    setVisible(false);

    ShowRecords object = new ShowRecords();

    object.setVisible(true);

```

```

    }

    }catch (SQLException | HeadlessException e){

        JOptionPane.showMessageDialog(null, e);

    }

}

```

```

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

    // TODO add your handling code here:

    try{

        stmt = conn.createStatement();

        int Id = Integer.parseInt(fileNumba.getText());

        String sql = "SELECT * FROM register WHERE fileNumber = '"+Id+"'";

        rs = stmt.executeQuery(sql);

        byte[] imgData = null;

        if(rs.next()){

            gender.setText(rs.getString("gender"));

            age.setText(rs.getString("age"));

            offense.setText(rs.getString("offense"));

            fullnames.setText(rs.getString("fullnames"));

            baiil.setText(rs.getString("bail"));

            jaiil.setText(rs.getString("jail"));

```



```

        Blob img = rs.getBlob("image");

        imgData = img.getBytes(1, (int)img.length());

        BufferedImage imag = ImageIO.read(new ByteArrayInputStream(imgData));

        ImageIcon jk1 = new ImageIcon(imag);

        imageLabel.setIcon(RImage(jk1));

    }else{

        JOptionPane.showMessageDialog(null, "Record Not Found");

    }

}

catch (SQLException | NumberFormatException e){

    JOptionPane.showMessageDialog(null, e);

} catch (IOException ex) {

    Logger.getLogger(SEdit.class.getName()).log(Level.SEVERE, null, ex);

}

}

```

```

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

    // TODO add your handling code here:

    try{

        stmt = conn.createStatement();

        int Id = Integer.parseInt(fileNumba.getText());

        String sql = "DELETE FROM register WHERE fileNumber='"+Id+"'";

        stmt.executeUpdate(sql);

    }
}

```

```

        JOptionPane.showMessageDialog(null, "Criminal Record cleared");
//      allows redirection

setVisible(false);

ShowRecords object = new ShowRecords();

object.setVisible(true);

    }catch (SQLException | NumberFormatException e){

        JOptionPane.showMessageDialog(null, e);

    }

}

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {

    /* Set the Nimbus look and feel */

    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional)
">

    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look
and feel.

        *                               For                               details                               see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

```

```

    */

    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(SEdit.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    } catch (InstantiationException ex) {

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

    } catch (IllegalAccessException ex) {

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

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

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

    }

```

```

    }

    //</editor-fold>

    /* Create and display the form */

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

        public void run() {

            new SEdit().setVisible(true);

        }

    });
}

// Variables declaration - do not modify

private javax.swing.JTextField Nation;

private javax.swing.JButton Register;

private javax.swing.JButton Register1;

private javax.swing.JButton Register2;

private javax.swing.JButton Update;

private javax.swing.JButton Upload;

private javax.swing.JButton Upload1;

private javax.swing.JTextField age;

private javax.swing.JTextField age1;

private javax.swing.JTextField age2;

private javax.swing.JTextField bail;

```

```
private javax.swing.JComboBox bail;  
private javax.swing.JComboBox bail1;  
private javax.swing.JButton delete;  
private javax.swing.JLabel file;  
private javax.swing.JTextField fileNumba;  
private javax.swing.JTextField fileNumber;  
private javax.swing.JTextField fileNumber1;  
private javax.swing.JTextField fullnames;  
private javax.swing.JTextField fullnames1;  
private javax.swing.JTextField fullnames2;  
private javax.swing.JTextField gender;  
private javax.swing.JComboBox gender1;  
private javax.swing.JComboBox gender2;  
private javax.swing.JLabel imageLabel;  
private javax.swing.JLabel img1;  
private javax.swing.JLabel img2;  
private javax.swing.JButton jButton2;  
private javax.swing.JButton jButton3;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel10;  
private javax.swing.JLabel jLabel11;  
private javax.swing.JLabel jLabel12;  
private javax.swing.JLabel jLabel13;
```

```
private javax.swing.JLabel jLabel14;  
private javax.swing.JLabel jLabel15;  
private javax.swing.JLabel jLabel16;  
private javax.swing.JLabel jLabel17;  
private javax.swing.JLabel jLabel18;  
private javax.swing.JLabel jLabel19;  
private javax.swing.JLabel jLabel20;  
private javax.swing.JLabel jLabel21;  
private javax.swing.JLabel jLabel22;  
private javax.swing.JLabel jLabel23;  
private javax.swing.JLabel jLabel24;  
private javax.swing.JLabel jLabel25;  
private javax.swing.JLabel jLabel26;  
private javax.swing.JLabel jLabel27;  
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.JLabel jLabel8;  
private javax.swing.JLabel jLabel9;  
private javax.swing.JPanel jPanel1;  
private javax.swing.JPanel jPanel2;
```

```

private javax.swing.JPanel jPanel3;

private javax.swing.JPanel jPanel4;

private javax.swing.JTextField jail;

private javax.swing.JComboBox jail;

private javax.swing.JComboBox jail1;

private javax.swing.JComboBox nationality;

private javax.swing.JComboBox nationality1;

private javax.swing.JComboBox offense;

private javax.swing.JComboBox offense1;

private javax.swing.JTextField offense;

private javax.swing.JButton select;

// End of variables declaration


private ImageIcon RImage(ImageIcon Imagepath) {

    Image img = Imagepath.getImage();

    Image                                newimg                                =
img.getScaledInstance(imageLabel.getWidth(),imageLabel.getHeight(),
Image.SCALE_SMOOTH);

    ImageIcon image = new ImageIcon(newimg);

    return image;

}

```

vi. Database Connection

```
/*
```

```
* To change this license header, choose License Headers in Project Properties.
```

```
* To change this template file, choose Tools | Templates
```

```
* and open the template in the editor.
```

```
*/
```

```
/**
```

```
*
```

```
* @author fola
```

```
*/
```

```
import com.mysql.jdbc.Connection;
```

```
import java.sql.DriverManager;
```

```
import java.sql.SQLException;
```

```
import javax.swing.JOptionPane;
```

```
public class dbaseConnx
```

```
{
```

```
    final static String url = "jdbc:mysql://127.0.0.1:3306/crimeDetection";
```

```
    final static String driver = "com.mysql.jdbc.Driver";
```

```
    final static String username = "root";
```

```
    final static String password = "";
```



```

public static Connection openConnection()
{
    try
    {
        Class.forName(driver);

        Connection conn = DriverManager.getConnection(url,username,password);

        return conn;
    }
    catch (ClassNotFoundException | SQLException e)
    {
        JOptionPane.showMessageDialog(null, e);

        return null;
    }
}

```

CHAPTER TWO