JAVA SWING BASED – CAREER DENDROGRAM – SQL CONNECTIVITY USING JDBC

A

Report

Submitted in partial fulfillment of the

Requirements for the award of the Degree of

BACHELOR OF ENGINEERING
IN
INFORMATION TECHNOLOGY

By

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BONAFIDE CERTIFICATE

This is to certify that this project report titled
'CAREER DENDROGRAM'
is a project work of **K SAI SHRUTHI** bearing
roll no. 1602-20-737-036 who carried out this
project under my supervision in the IV semester
for the academic year 2020- 2021

Signature   Signature
External Examiner   Internal Examiner

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ABSTRACT

Career Dendrogram is a console-based project that connects students looking for career choices with great skills and requirements. Every user, must enter their details and information required to generate the right career choice. The students can look out for jobs they are interested in. It allows the student to know what can be the best choice of career.

Requirement Analysis

List of Tables:
 - Students

 - Student_Description

 - Skills

 - Career_Status

List of Attributes with their Domain Types:

Students

● SID   NOT NULL VARCHAR2(15)

● SNAME   NOT NULL VARCHAR2(20)

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CAREER DENDROGRAM

Students_Description

- SID   VARCHAR2(15)

- AGE   VARCHAR2(10)

- GENDER   NOT NULL VARCHAR2(15)

Skills

- SID   VARCHAR2(15)

- SS1   NOT NULL VARCHAR2(30)

- SS2   NOT NULL VARCHAR2(30)

- AOI   NOT NULL VARCHAR2(30)

Career_choice

- SID   VARCHAR2(15)

- JS   NOT NULL VARCHAR2(10)

AIM AND PRIORITY OF THE PROJECT

To create a **Java GUI-based** desktop application that connects students looking for career choices with skills and Interest. It takes values like student name, username, Age, Skills, etc through forms which are then updated in the database using JDBC connectivity.

ARCHITECTURE AND TECHNOLOGY

Software used:

Java, Oracle 11g Database, Java SE version 14, Run SQL.

Java SWING:

Java SWING is a GUI widget toolkit for Java. It is part of Oracle's Java Foundation Classes (JFC) - an API for providing a graphical user interface (GUI) for Java programs.

Swing was developed to provide a more sophisticated set of GUI components than the earlier AWT. Swing provides a look and feel that emulates the look and feel of several platforms, and also supports a pluggable look and feel that allows applications to have a look and feel unrelated to the underlying platform. It has more powerful and flexible components than AWT. In addition to familiar components such as buttons, check boxes and labels, Swing provides several advanced components such as tabbed panel, scroll panes, trees, tables, and lists.

SQL:

Structure Query Language(SQL) is a database query language used for storing and managing data in **Relational** DBMS. SQL was the first commercial language introduced for E.F Codd's Relational model of database. Today almost all RDBMS (MySql, Oracle, Infomix, Sybase, MS Access) use **SQL** as the standard database query language. SQL is used to perform all types of data operations in RDBMS.
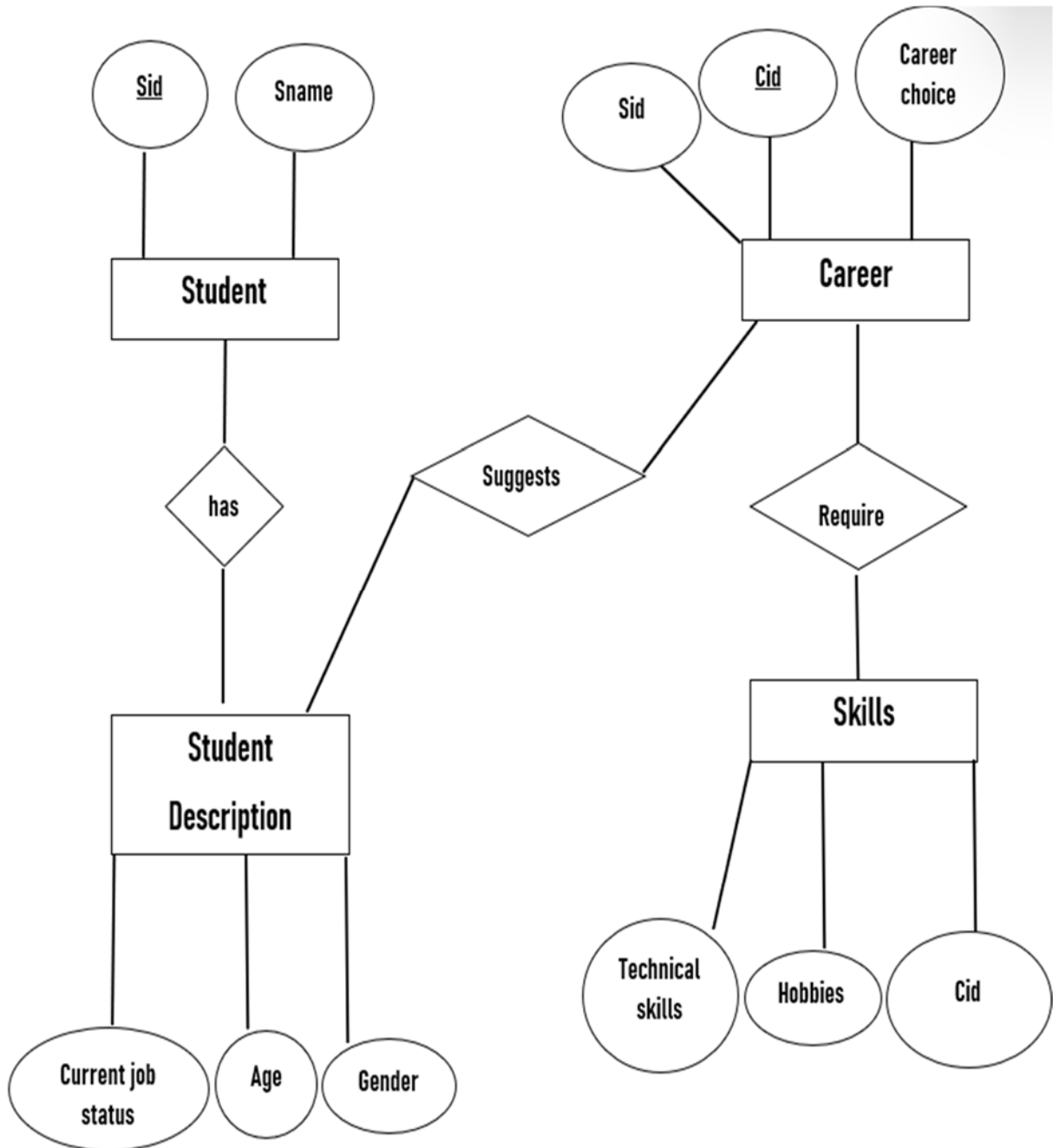
DESIGN

Entity Relationship Diagram

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TABLE CREATED IN SQL:

1.Student Table

```
SQL> create table student(
  2  sid number,
  3  sname varchar2(30) not null);

Table created.

SQL> alter table student add constraint pk_student primary key(sid);

Table altered.

SQL> desc student
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 SID                                       NOT NULL NUMBER
 SNAME                                     NOT NULL VARCHAR2(30)

SQL>
```

2.Student Description Table

```
SQL> create table Student_Description(
  2  SID varchar2(15),
  3  AGE varchar2(10),
  4  GENDER varchar2(15) NOT NULL,
  5  CONSTRAINT FK_SID FOREIGN KEY (SID) REFERENCES STUDENT(SID) ON DELETE CASCADE);

Table created.

SQL> SELECT * FROM STUDENT_DESCRIPTION;

no rows selected

SQL> DESC STUDENT_DESCRIPTION;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 SID                                                VARCHAR2(15)
 AGE                                                VARCHAR2(10)
 GENDER                                    NOT NULL VARCHAR2(15)
```

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3.Skills Table

```
SQL> CREATE TABLE SKILLS(
  2  SID varchar2(15),
  3  SS1 VARCHAR2(30) NOT NULL,
  4  SS2 VARCHAR2(30) NOT NULL,
  5  AOI VARCHAR2(30) NOT NULL,
  6  CONSTRAINT FK_SID1 FOREIGN KEY (SID) REFERENCES STUDENT(SID) ON DELETE CASCADE);

Table created.

SQL> DESC SKILLS;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 SID                                                VARCHAR2(15)
 SS1                                       NOT NULL VARCHAR2(30)
 SS2                                       NOT NULL VARCHAR2(30)
 AOI                                       NOT NULL VARCHAR2(30)
```

4. Career Status table

```
SQL> CREATE TABLE CARRER(
  2  SID varchar2(15),
  3  JS VARCHAR(10) NOT NULL,
  4  CONSTRAINT FK_SID2 FOREIGN KEY (SID) REFERENCES STUDENT(SID) ON DELETE CASCADE);

Table created.

SQL> DESC CARRER;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 SID                                                VARCHAR2(15)
 JS                                        NOT NULL VARCHAR2(10)
```

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CAREER DENDROGRAM

DATABASE DESIGN:

```
SQL> SELECT * FROM TAB;
TNAME                TABTYPE  CLUSTERID
---------------------------- ------- ----------
CARRER              TABLE
SKILLS              TABLE
STUDENT              TABLE
STUDENT1              TABLE
STUDENT_DESCRIPTION        TABLE

SQL> DESC STUDENT;
 Name                    Null?   Type
 ----------------------------------- -------- -------------------------
 SID                    NOT NULL VARCHAR2(15)
 SNAME                   NOT NULL VARCHAR2(20)

SQL> DESC STUDENT_DESCRIPTION;
 Name                    Null?   Type
 ----------------------------------- -------- -------------------------
 SID                      VARCHAR2(15)
 AGE                      VARCHAR2(10)
 GENDER                   NOT NULL VARCHAR2(15)

SQL> DESC SKILLS;
 Name                    Null?   Type
 ----------------------------------- -------- -------------------------
 SID                      VARCHAR2(15)
 SS1                    NOT NULL VARCHAR2(30)
 SS2                    NOT NULL VARCHAR2(30)
 AOI                    NOT NULL VARCHAR2(30)

SQL> DESC CARRER;
 Name                    Null?   Type
 ----------------------------------- -------- -------------------------
 SID                      VARCHAR2(15)
 JS                     NOT NULL VARCHAR2(10)

SQL> SPOOL OFF
```

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DML Operations

1.INSERTING VALUES INTO STUDENTS TABLE:

```
SQL> insert into student values(&sid,'&sname');
Enter value for sid: 0001
Enter value for sname: Anusha
old   1: insert into student values(&sid,'&sname')
new   1: insert into student values(0001,'Anusha')

1 row created.

SQL> /
Enter value for sid: 0002
Enter value for sname: bindhu
old   1: insert into student values(&sid,'&sname')
new   1: insert into student values(0002,'bindhu')

1 row created.

SQL> /
Enter value for sid: 0003
Enter value for sname: chandra
old   1: insert into student values(&sid,'&sname')
new   1: insert into student values(0003,'chandra')

1 row created.

SQL> select * from student;

      SID SNAME
--------- ----------------------------
        1 Anusha
        2 bindhu
        3 chandra

SQL>
```

2.INSERTING VALUES INTO STUDENT_DESCRIPTION TABLE:

Run SQL Command Line

```
7 rows selected.

SQL> insert into student_description values('&sid','&age','&gender');
Enter value for sid: 11
Enter value for age: 23
Enter value for gender: F
old   1: insert into student_description values('&sid','&age','&gender')
new   1: insert into student_description values('11','23','F')

1 row created.

SQL> /
Enter value for sid: 12
Enter value for age: 54
Enter value for gender: M
old   1: insert into student_description values('&sid','&age','&gender')
new   1: insert into student_description values('12','54','M')

1 row created.

SQL> /
Enter value for sid: 13
Enter value for age: 23
Enter value for gender: 7
old   1: insert into student_description values('&sid','&age','&gender')
new   1: insert into student_description values('13','23','7')

1 row created.

SQL>
```

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3.INSERTING VALUES INTO SKILLS TABLE:

```
SQL>
SQL> insert into skills values('&sid','&ss1','&ss2','&aoi');
Enter value for sid: 11
Enter value for ss1: Critical Thinking
Enter value for ss2: creativity
Enter value for aoi: Artistic - CREATORS
old    1: insert into skills values('&sid','&ss1','&ss2','&aoi')
new    1: insert into skills values('11','Critical Thinking','creativity','Artistic - CREATORS')

1 row created.
```

4.INSERTING VALUES INTO CARRER TABLE:

```
SQL> insert into carrer values('&sid','&js');
Enter value for sid: 11
Enter value for js: yes
old    1: insert into carrer values('&sid','&js')
new    1: insert into carrer values('11','yes')

1 row created.

SQL> /
Enter value for sid: 12
Enter value for js: no
old    1: insert into carrer values('&sid','&js')
new    1: insert into carrer values('12','no')

1 row created.

SQL> /
Enter value for sid: 13
Enter value for js: yes
old    1: insert into carrer values('&sid','&js')
new    1: insert into carrer values('13','yes')

1 row created.
```

IMPLEMENTATION

JAVA-SQL Connectivity using JDBC:

Java Database Connectivity (JDBC) is an application programming interface (API) for the programming language Java, which defines how a client may access a database. It is a Java-based data access technology used for Java database connectivity. It is part of the Java Standard Edition platform, from Oracle Corporation. It provides methods to query and update data in a database and is oriented towards relational databases.

The connection to the database can be performed using Java programming (JDBC API) as:

```
{

        DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());

         // Connect to Oracle Database

         Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE"
,"shruthi","kovvurss");

        Statement statement = con.createStatement()

        String query = "UPDATE SKILLS SET SS1=" +"'"+ jTextField3.getText() +"',SS2=" +"'"+
jTextField5.getText() +"',  AOI ="+" '"+ jTextField2.getText() +"' WHERE SID =+" + jTextField4.getText();

        ResultSet rs = statement.executeQuery(query);

        JOptionPane.showMessageDialog(new JFrame(), "Upadated Successfully", "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);

        rs.close();

        statement.close();

        con.close(); }
```

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CAREER DENDROGRAM

Front-end Programs (User Interfaces) Home Page:

1.INTRO PAGE

```java
public class INRO extends javax.swing.JFrame {
 public INRO() {
    initComponents();
  }
  @SuppressWarnings("unchecked")
  // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents
  private void initComponents() {

    jButton1 = new javax.swing.JButton();
    jTextField1 = new javax.swing.JTextField();
    jButton2 = new javax.swing.JButton();
    jLabel1 = new javax.swing.JLabel();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

    jButton1.setBackground(new java.awt.Color(0, 0, 0));
    jButton1.setFont(new java.awt.Font("Georgia", 3, 24)); // NOI18N
    jButton1.setForeground(new java.awt.Color(0, 255, 255));
    jButton1.setText("START");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          jButton1ActionPerformed(evt);
       }
    });
    getContentPane().add(jButton1, new org.netbeans.lib.awtextra.AbsoluteConstraints(110, 510, 180, 60));

    jTextField1.setEditable(false);
    jTextField1.setBackground(new java.awt.Color(0, 153, 153));
    jTextField1.setFont(new java.awt.Font("Georgia", 3, 48)); // NOI18N
    jTextField1.setText("CAREER DENDROGRAM");
    jTextField1.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 1, 1, 1));
    jTextField1.setCursor(new java.awt.Cursor(java.awt.Cursor.TEXT_CURSOR));
    jTextField1.setDisabledTextColor(new java.awt.Color(0, 0, 0));
    jTextField1.setHighlighter(null);
    jTextField1.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          jTextField1ActionPerformed(evt);
       }
```

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```
    });
    getContentPane().add(jTextField1, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 30, 660,
60));

    jButton2.setBackground(new java.awt.Color(0, 0, 0));
    jButton2.setFont(new java.awt.Font("Georgia", 3, 24)); // NOI18N
    jButton2.setForeground(new java.awt.Color(0, 255, 255));
    jButton2.setText("RESULT");
    jButton2.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton2ActionPerformed(evt);
        }
    });
    getContentPane().add(jButton2, new org.netbeans.lib.awtextra.AbsoluteConstraints(660, 180, 160,
60));

    jLabel1.setIcon(new javax.swing.ImageIcon("C:\\Users\\shrut\\OneDrive\\Pictures\\career-success-
path-stair.jpg")); // NOI18N
    jLabel1.setText("jLabel1");
    jLabel1.addContainerListener(new java.awt.event.ContainerAdapter() {
        public void componentAdded(java.awt.event.ContainerEvent evt) {
            jLabel1ComponentAdded(evt);
        }
    });
    getContentPane().add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 910, 600));

    pack();
  }// </editor-fold>//GEN-END:initComponents

  private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jTextField1ActionPerformed
    // TODO add your handling code here:
  }//GEN-LAST:event_jTextField1ActionPerformed

  private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jButton1ActionPerformed
    // TODO add your handling code here:
    Student d= new Student();
    d.show();
  }//GEN-LAST:event_jButton1ActionPerformed

  private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jButton2ActionPerformed
    // TODO add your handling code here:
    Dendrogram l =new Dendrogram();
    l.show();

  }//GEN-LAST:event_jButton2ActionPerformed
```

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```java
    private void jLabel1ComponentAdded(java.awt.event.ContainerEvent evt) {//GEN-
FIRST:event_jLabel1ComponentAdded
        // TODO add your handling code here:
    }//GEN-LAST:event_jLabel1ComponentAdded

    /**
     * @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(INRO.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
        } catch (InstantiationException ex) {
            java.util.logging.Logger.getLogger(INRO.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
        } catch (IllegalAccessException ex) {
            java.util.logging.Logger.getLogger(INRO.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
            java.util.logging.Logger.getLogger(INRO.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
        }
        //</editor-fold>
        //</editor-fold>

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

    // Variables declaration - do not modify//GEN-BEGIN:variables
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
```

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```
   private javax.swing.JLabel jLabel1;
   private javax.swing.JTextField jTextField1;
   // End of variables declaration//GEN-END:variables
}
```

2.STUDENT

```java
import java.awt.HeadlessException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import javax.swing.JFrame;
import javax.swing.JOptionPane;
//import javax.swing.event.MenuEvent;
import javax.swing.table.DefaultTableModel
/**
 *
 * @author shrut
 */
public class Student extends javax.swing.JFrame {

  /**
   * Creates new form NewJFrame
   */
  public Student() {
    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">//GEN-BEGIN:initComponents
  private void initComponents() {

    jPopupMenu1 = new javax.swing.JPopupMenu();
    jLabel1 = new javax.swing.JLabel();
    jTextField2 = new javax.swing.JTextField();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jTextField3 = new javax.swing.JTextField();
    jButton1 = new javax.swing.JButton();
    jButton2 = new javax.swing.JButton();
```

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```java
    jButton3 = new javax.swing.JButton();
    jButton4 = new javax.swing.JButton();
    jScrollPane1 = new javax.swing.JScrollPane();
    jTable1 = new javax.swing.JTable();
    jMenuBar1 = new javax.swing.JMenuBar();
    jMenu1 = new javax.swing.JMenu();
    jMenu2 = new javax.swing.JMenu();
    jMenu3 = new javax.swing.JMenu();
    jMenu4 = new javax.swing.JMenu();
    jMenu5 = new javax.swing.JMenu();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jLabel1.setText("Student  ID :");

    jLabel3.setText("Student Name :");

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

    jButton2.setText("Modify");
    jButton2.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
      }
    });

    jButton3.setText("View Table");
    jButton3.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
      }
    });

    jButton4.setText("Delete");
    jButton4.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
      }
    });

    jTable1.setModel(new javax.swing.table.DefaultTableModel(
      new Object [][] {
        {null, null},
        {null, null},
```

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```java
        {null, null},
        {null, null}
      },
      new String [] {
        "Student ID", "Student Name"
      }
    ));
    jTable1.addMouseListener(new java.awt.event.MouseAdapter() {
      public void mouseClicked(java.awt.event.MouseEvent evt) {
        jTable1MouseClicked(evt);
      }
    });
    jScrollPane1.setViewportView(jTable1);

    jMenuBar1.add(jMenu1);

    jMenu2.setText("Student ");
    jMenuBar1.add(jMenu2);

    jMenu3.setText("Student_Description");
    jMenu3.addMenuListener(new javax.swing.event.MenuListener() {
      public void menuCanceled(javax.swing.event.MenuEvent evt) {
      }
      public void menuDeselected(javax.swing.event.MenuEvent evt) {
      }
      public void menuSelected(javax.swing.event.MenuEvent evt) {
        jMenu3MenuSelected(evt);
      }
    });
    jMenuBar1.add(jMenu3);

    jMenu4.setText("Skills");
    jMenu4.addMenuListener(new javax.swing.event.MenuListener() {
      public void menuCanceled(javax.swing.event.MenuEvent evt) {
      }
      public void menuDeselected(javax.swing.event.MenuEvent evt) {
      }
      public void menuSelected(javax.swing.event.MenuEvent evt) {
        jMenu4MenuSelected(evt);
      }
    });
    jMenuBar1.add(jMenu4);

    jMenu5.setText("Carrer_Status");
    jMenu5.addMenuListener(new javax.swing.event.MenuListener() {
      public void menuCanceled(javax.swing.event.MenuEvent evt) {
      }
      public void menuDeselected(javax.swing.event.MenuEvent evt) {
      }
```

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```java
        public void menuSelected(javax.swing.event.MenuEvent evt) {
           jMenu5MenuSelected(evt);
        }
     });
     jMenuBar1.add(jMenu5);

     setJMenuBar(jMenuBar1);

     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(48, 48, 48)
           .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
              .addComponent(jLabel1)
              .addGroup(layout.createSequentialGroup()
                 .addGap(72, 72, 72)
                 .addComponent(jLabel2))
              .addComponent(jLabel3))
           .addGap(23, 23, 23)
           .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
              .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE, 314,
javax.swing.GroupLayout.PREFERRED_SIZE)
              .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE, 314,
javax.swing.GroupLayout.PREFERRED_SIZE))
           .addGap(42, 42, 42)
           .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 420,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup()
           .addGap(50, 50, 50)
           .addComponent(jButton1)
           .addGap(52, 52, 52)
           .addComponent(jButton2)
           .addGap(52, 52, 52)
           .addComponent(jButton4)
           .addGap(232, 232, 232)
           .addComponent(jButton3))
     );
     layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
           .addGap(30, 30, 30)
           .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
              .addGroup(layout.createSequentialGroup()
                 .addGap(43, 43, 43)
                 .addComponent(jLabel1)
                 .addGap(26, 26, 26)
                 .addComponent(jLabel2)
```

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```
                .addGap(59, 59, 59)
                .addComponent(jLabel3))
            .addGroup(layout.createSequentialGroup()
                .addGap(29, 29, 29)
                .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE, 53,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(57, 57, 57)
                .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE, 53,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 334,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(56, 56, 56)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jButton4)
            .addComponent(jButton3)
            .addGroup(layout.createSequentialGroup()
                .addGap(10, 10, 10)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jButton1)
                    .addComponent(jButton2)))))
    );

    pack();
    }// </editor-fold>//GEN-END:initComponents

    //@SuppressWarnings("ConvertToTryWithResources")
    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jButton2ActionPerformed
        try{
        if(jTable1.getRowCount()==0)
            {
            JOptionPane.showMessageDialog(this, "Please load the table", "Notice",
JOptionPane.INFORMATION_MESSAGE);

            }

            else
            {
            // Load Oracle JDBC Driver
             int r = jTable1.getSelectedRow();

             if(r<0)
             {
                JOptionPane.showMessageDialog(this, "Please select single Row For Update..", "Notice",
JOptionPane.INFORMATION_MESSAGE);
             }
        else
            {
            DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());
```

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```java
        // Connect to Oracle Database
        Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE"
,"shruthi","kovvurss");
        Statement statement = con.createStatement();

        String query = "UPDATE student SET  Sname='" + jTextField3.getText() + "'  WHERE sid ='" +
jTextField2.getText() +"'";
        ResultSet rs = statement.executeQuery(query);

        JOptionPane.showMessageDialog(new JFrame(), "Updated Successfully", "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);

        rs.close();
        statement.close();
        con.close();

        }
        }

    }

 catch(HeadlessException | SQLException e)
 {
 System.out.println(e);
 }

    // TODO add your handling code here:
  }//GEN-LAST:event_jButton2ActionPerformed

  //@SuppressWarnings("ConvertToTryWithResources")
  private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jButton3ActionPerformed
    // TODO add your handling code here:
      try
 {
      if(jTable1.getRowCount()==0)
      {
      JOptionPane.showMessageDialog(this, "Please load the table", "Notice",
JOptionPane.INFORMATION_MESSAGE);

      }

      else
      {
      // Load Oracle JDBC Driver
      int r = jTable1.getSelectedRow();

      if(r<0)
```

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```
        {
            JOptionPane.showMessageDialog(this, "Please select single Row For Update..", "Notice",
JOptionPane.INFORMATION_MESSAGE);
        }
        else
        {
        DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());

         // Connect to Oracle Database
         Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE"
,"shruthi","kovvurss");
         Statement statement = con.createStatement();
         String query = "SELECT * FROM STUDENT";
         ResultSet rs = statement.executeQuery(query);

         DefaultTableModel model = (DefaultTableModel)jTable1.getModel();


         model.setRowCount(0);

         while(rs.next())
         {
            model.addRow(new Object[]{ rs.getString("SID"), rs.getString("sname") });
         }

         rs.close();
         statement.close();
         con.close();
        }
        }
    }

  catch(SQLException e)
  {
  System.out.println(e);
  }
  }//GEN-LAST:event_jButton3ActionPerformed

  //@SuppressWarnings("ConvertToTryWithResources")
  private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jButton1ActionPerformed
   try
 {
       DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());

       // Connect to Oracle Database
       Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE"
,"shruthi","kovvurss");
```

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K SHRUTHI

```java
        Statement statement = con.createStatement();

        String query = "INSERT INTO STUDENT VALUES(" + "'"+jTextField2.getText() + "','"+"'"+
jTextField3.getText()+"'" +")";

        ResultSet rs = statement.executeQuery(query);

        JOptionPane.showMessageDialog(new JFrame(), "Inserted Successfully", "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);


        rs.close();
        statement.close();
        con.close();

    }

 catch(HeadlessException | SQLException e)
 {
 System.out.println(e);
 }

  }//GEN-LAST:event_jButton1ActionPerformed

  //@SuppressWarnings("ConvertToTryWithResources")
  private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jButton4ActionPerformed


    try
 {
        if(jTable1.getRowCount()==0)
        {
        JOptionPane.showMessageDialog(this, "Please load the table", "Notice",
JOptionPane.INFORMATION_MESSAGE);

        }

        else
        {
        // Load Oracle JDBC Driver
        int r = jTable1.getSelectedRow();

        if(r<0)
        {
            JOptionPane.showMessageDialog(this, "Please select single Row For Update..", "Notice",
JOptionPane.INFORMATION_MESSAGE);
        }
        else
```

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```
        {
        DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());

        // Connect to Oracle Database
        Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE"
,"shruthi","kovvurss");

        Statement statement = con.createStatement();

        // Execute a SELECT query on Oracle Dummy DUAL Table. Useful for retrieving system values
        // Enables us to retrieve values as if querying from a table
        String query = "DELETE from STUDENT where sid =  '" + jTextField2.getText() + "'";
        //String sqlqry="insert into customers values()"
        ResultSet rs = statement.executeQuery(query);

        JOptionPane.showMessageDialog(new JFrame(), "Deleted Successfully", "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);

        rs.close();
        statement.close();
        con.close();
        }
        }

    }

  catch(HeadlessException | SQLException e)
  {
  System.out.println(e);
  }

    // TODO add your handling code here:
  }//GEN-LAST:event_jButton4ActionPerformed
/**/
  private void jMenu3MenuSelected(javax.swing.event.MenuEvent evt) {//GEN-
FIRST:event_jMenu3MenuSelected
    // TODO add your handling code here:
    Student_Description d = new Student_Description();
    d.show();
    dispose();

  }//GEN-LAST:event_jMenu3MenuSelected

  private void jMenu4MenuSelected(javax.swing.event.MenuEvent evt) {//GEN-
FIRST:event_jMenu4MenuSelected
      Skills d = new Skills();
    d.show();
    dispose();
    // TODO add your handling code here:
```

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CAREER DENDROGRAM

```java
  }//GEN-LAST:event_jMenu4MenuSelected

  private void jMenu5MenuSelected(javax.swing.event.MenuEvent evt) {//GEN-
FIRST:event_jMenu5MenuSelected
    Carrer_Status d= new Carrer_Status();
    d.show();
    dispose();
    // TODO add your handling code here:
  }//GEN-LAST:event_jMenu5MenuSelected

  private void jTable1MouseClicked(java.awt.event.MouseEvent evt) {//GEN-
FIRST:event_jTable1MouseClicked
    DefaultTableModel model = (DefaultTableModel)jTable1.getModel();
    int rowindex = jTable1.getSelectedRow();

    //jComboBox1 j = new jComboBox();
    jTextField2.setText(model.getValueAt(rowindex,0).toString());
    jTextField3.setText(model.getValueAt(rowindex,1).toString());
    // TODO add your handling code here:
  }//GEN-LAST:event_jTable1MouseClicked

  /**
   * @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(Student.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (InstantiationException ex) {
      java.util.logging.Logger.getLogger(Student.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (IllegalAccessException ex) {
      java.util.logging.Logger.getLogger(Student.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
```

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```
        java.util.logging.Logger.getLogger(Student.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    }
    //</editor-fold>
    //</editor-fold>

    /* Create and display the form */
    java.awt.EventQueue.invokeLater(() -> {
        new Student().setVisible(true);
    });
}

// Variables declaration - do not modify//GEN-BEGIN:variables
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JButton jButton4;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JMenu jMenu1;
private javax.swing.JMenu jMenu2;
private javax.swing.JMenu jMenu3;
private javax.swing.JMenu jMenu4;
private javax.swing.JMenu jMenu5;
private javax.swing.JMenuBar jMenuBar1;
private javax.swing.JPopupMenu jPopupMenu1;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable jTable1;
private javax.swing.JTextField jTextField2;
private javax.swing.JTextField jTextField3;
// End of variables declaration//GEN-END:variables
```

3.STUDENT DESCRIPTION PAGE

```
import java.awt.HeadlessException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import javax.swing.JFrame;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
public class Student_Description extends javax.swing.JFrame {
```

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CAREER DENDROGRAM

```java
    /**
     * Creates new form Student_Description
     */
    public Student_Description() {
        initComponents();
    }
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents
    private void initComponents() {

        jScrollPane1 = new javax.swing.JScrollPane();
        jTable1 = new javax.swing.JTable();
        jLabel1 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        jTextField2 = new javax.swing.JTextField();
        jTextField4 = new javax.swing.JTextField();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jButton4 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();
        jTextField5 = new javax.swing.JTextField();
        jComboBox1 = new javax.swing.JComboBox<>();
        jMenuBar1 = new javax.swing.JMenuBar();
        jMenu1 = new javax.swing.JMenu();
        jMenu2 = new javax.swing.JMenu();
        jMenu3 = new javax.swing.JMenu();
        jMenu4 = new javax.swing.JMenu();
        jMenu5 = new javax.swing.JMenu();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT_CURSOR));
        setPreferredSize(new java.awt.Dimension(1000, 600));
        getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

        jTable1.setModel(new javax.swing.table.DefaultTableModel(
            new Object [][] {
                {null, null, null},
                {null, null, null},
                {null, null, null},
                {null, null, null}
            },
            new String [] {
                "Student ID", "Age", "Gender"
            }
        ) {
```

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```
        Class[] types = new Class [] {
            java.lang.Object.class, java.lang.Short.class, java.lang.Object.class
        };

        public Class getColumnClass(int columnIndex) {
            return types [columnIndex];
        }
    });
    jTable1.addMouseListener(new java.awt.event.MouseAdapter() {
        public void mouseClicked(java.awt.event.MouseEvent evt) {
            jTable1MouseClicked(evt);
        }
    });
    jScrollPane1.setViewportView(jTable1);

    getContentPane().add(jScrollPane1, new org.netbeans.lib.awtextra.AbsoluteConstraints(531, 49,
435, 334));

    jLabel1.setText("Student ID :");
    getContentPane().add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(36, 72, -1, -1));
    getContentPane().add(jLabel3, new org.netbeans.lib.awtextra.AbsoluteConstraints(100, 218, -1, -
1));

    jLabel2.setText(" ");
    getContentPane().add(jLabel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(26, 151, -1, -1));

    jLabel4.setText("Age :");
    getContentPane().add(jLabel4, new org.netbeans.lib.awtextra.AbsoluteConstraints(89, 179, -1, -1));

    jLabel5.setText("Gender :");
    getContentPane().add(jLabel5, new org.netbeans.lib.awtextra.AbsoluteConstraints(64, 282, -1, -1));

    jTextField2.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jTextField2ActionPerformed(evt);
        }
    });
    getContentPane().add(jTextField2, new org.netbeans.lib.awtextra.AbsoluteConstraints(166, 165,
306, 53));

    jTextField4.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jTextField4ActionPerformed(evt);
        }
    });
    getContentPane().add(jTextField4, new org.netbeans.lib.awtextra.AbsoluteConstraints(166, 58, 306,
53));

    jButton1.setText("Submit");
```

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```
    jButton1.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
      }
    });
    getContentPane().add(jButton1, new org.netbeans.lib.awtextra.AbsoluteConstraints(78, 472, -1, -
1));


    jButton2.setText("Modify");
    jButton2.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
      }
    });
    getContentPane().add(jButton2, new org.netbeans.lib.awtextra.AbsoluteConstraints(223, 472, -1, -
1));


    jButton4.setText("Delete");
    jButton4.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
      }
    });
    getContentPane().add(jButton4, new org.netbeans.lib.awtextra.AbsoluteConstraints(364, 472, -1, -
1));


    jButton3.setText("View Table");
    jButton3.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
      }
    });
    getContentPane().add(jButton3, new org.netbeans.lib.awtextra.AbsoluteConstraints(685, 472, -1, -
1));


    jTextField5.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField5ActionPerformed(evt);
      }
    });
    getContentPane().add(jTextField5, new org.netbeans.lib.awtextra.AbsoluteConstraints(166, 343,
306, 53));


    jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Select",
"Female", "Male", "Others" }));
    jComboBox1.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jComboBox1ActionPerformed(evt);
      }
```

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```java
        });
        getContentPane().add(jComboBox1, new org.netbeans.lib.awtextra.AbsoluteConstraints(166, 265,
306, 59));

        jMenuBar1.add(jMenu1);

        jMenu2.setText("Student ");
        jMenu2.addMenuListener(new javax.swing.event.MenuListener() {
            public void menuCanceled(javax.swing.event.MenuEvent evt) {
            }
            public void menuDeselected(javax.swing.event.MenuEvent evt) {
            }
            public void menuSelected(javax.swing.event.MenuEvent evt) {
                jMenu2MenuSelected(evt);
            }
        });
        jMenuBar1.add(jMenu2);

        jMenu3.setText("Student_Description");
        jMenuBar1.add(jMenu3);

        jMenu4.setText("Skills");
        jMenu4.addMenuListener(new javax.swing.event.MenuListener() {
            public void menuCanceled(javax.swing.event.MenuEvent evt) {
            }
            public void menuDeselected(javax.swing.event.MenuEvent evt) {
            }
            public void menuSelected(javax.swing.event.MenuEvent evt) {
                jMenu4MenuSelected(evt);
            }
        });
        jMenuBar1.add(jMenu4);

        jMenu5.setText("Carrer_Status");
        jMenu5.addMenuListener(new javax.swing.event.MenuListener() {
            public void menuCanceled(javax.swing.event.MenuEvent evt) {
            }
            public void menuDeselected(javax.swing.event.MenuEvent evt) {
            }
            public void menuSelected(javax.swing.event.MenuEvent evt) {
                jMenu5MenuSelected(evt);
            }
        });
        jMenuBar1.add(jMenu5);

        setJMenuBar(jMenuBar1);

        pack();
    }// </editor-fold>//GEN-END:initComponents
```

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```java
  private void jTextField2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jTextField2ActionPerformed
    // TODO add your handling code here:
  }//GEN-LAST:event_jTextField2ActionPerformed

  private void jTextField4ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jTextField4ActionPerformed
    // TODO add your handling code here:
  }//GEN-LAST:event_jTextField4ActionPerformed

  @SuppressWarnings("ConvertToTryWithResources")
  private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jButton1ActionPerformed
    try
 {
        DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());

        // Connect to Oracle Database
        Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE"
,"shruthi","kovvurss");

        Statement statement = con.createStatement();

        // Execute a SELECT query on Oracle Dummy DUAL Table. Useful for retrieving system values
        // Enables us to retrieve values as if querying from a table
        String query = "INSERT INTO STUDENT_DESCRIPTION VALUES(" + "'"+jTextField4.getText() +
"','"+"'"+ jTextField2.getText()+"','"+"'"+ jTextField5.getText()+"'" +")";
        //String sqlqry="insert into customers values()"
        ResultSet rs = statement.executeQuery(query);

        JOptionPane.showMessageDialog(new JFrame(), "Inserted Successfully", "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);

        rs.close();
        statement.close();
        con.close();

    }

 catch(HeadlessException | SQLException e)
 {
 System.out.println(e);
 }
    // TODO add your handling code here:


  }//GEN-LAST:event_jButton1ActionPerformed
```

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CAREER DENDROGRAM

```java
  @SuppressWarnings("ConvertToTryWithResources")
  private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jButton2ActionPerformed
    try
 {
      if(jTable1.getRowCount()==0)
      {
      JOptionPane.showMessageDialog(this, "Please load the table", "Notice",
JOptionPane.INFORMATION_MESSAGE);

      }

      else
      {
      // Load Oracle JDBC Driver
      int r = jTable1.getSelectedRow();

      if(r<0)
      {
        JOptionPane.showMessageDialog(this, "Please select single Row For Update..", "Notice",
JOptionPane.INFORMATION_MESSAGE);
      }
      else
      {
      DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());

       // Connect to Oracle Database
       Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE"
,"shruthi","kovvurss");

       Statement statement = con.createStatement();


       String query = "UPDATE STUDENT_DESCRIPTION SET AGE=" +"'"+ jTextField2.getText() +"',
GENDER ="+" '"+ jTextField5.getText() +"' WHERE SID =+" + jTextField4.getText();
       ResultSet rs = statement.executeQuery(query);
       JOptionPane.showMessageDialog(new JFrame(), "Upadated Successfully", "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);

       rs.close();
       statement.close();
       con.close();
      }
      }

   }

 catch(HeadlessException | SQLException e)
 {
```

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```
 System.out.println(e);
 }      // TODO add your handling code here:
  }//GEN-LAST:event_jButton2ActionPerformed

  @SuppressWarnings("ConvertToTryWithResources")
  private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jButton4ActionPerformed
    // TODO add your handling code here:
     try
 {
      if(jTable1.getRowCount()==0)
      {
      JOptionPane.showMessageDialog(this, "Please load the table", "Notice",
JOptionPane.INFORMATION_MESSAGE);

      }

      else
      {
      // Load Oracle JDBC Driver
      int r = jTable1.getSelectedRow();

      if(r<0)
      {
         JOptionPane.showMessageDialog(this, "Please select single Row For Deleting..", "Notice",
JOptionPane.INFORMATION_MESSAGE);
      }
      else
      {
      DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());

       // Connect to Oracle Database
       Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE"
,"shruthi","kovvurss");

      Statement statement = con.createStatement();

      // Execute a SELECT query on Oracle Dummy DUAL Table. Useful for retrieving system values
      // Enables us to retrieve values as if querying from a table
      String query = "DELETE from STUDENT_DESCRIPTION where sid =  '" + jTextField4.getText() +
"'";
      //String sqlqry="insert into customers values()"
      ResultSet rs = statement.executeQuery(query);

      JOptionPane.showMessageDialog(new JFrame(), "Deleted Successfully", "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);

      /*while(rs.next()) {
```

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```
            //Date currentDate = rs.getDate(1); // get first column returned
            //System.out.println("Current Date from Oracle is : "+currentDate);
            System.out.println(rs.getString("ID") + rs.getString("AADHAR"));
         }*/
         rs.close();
         statement.close();
         con.close();
       }


       }
     }

  catch(HeadlessException | SQLException e)
  {
  System.out.println(e);
  }

   }//GEN-LAST:event_jButton4ActionPerformed

   @SuppressWarnings("ConvertToTryWithResources")
   private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jButton3ActionPerformed
 try
 {
        DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());

         // Connect to Oracle Database
         Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE"
,"shruthi","kovvurss");
         Statement statement = con.createStatement();

         // Execute a SELECT query on Oracle Dummy DUAL Table. Useful for retrieving system values
         // Enables us to retrieve values as if querying from a table
         /// String query = "UPDATE INTO STUDENT VALUES(" + "'"+jTextField2.getText() + "','"+"'"+
jTextField3.getText()+"'" +")";
         //String sqlqry="insert into customers values()"
         //String query = "UPDATE student   SET  Sname='" + jTextField3.getText() + "'  WHERE sid ='" +
jTextField2.getText() +"'";
         String query = "SELECT * FROM STUDENT_DESCRIPTION";
         ResultSet rs = statement.executeQuery(query);

         DefaultTableModel model = (DefaultTableModel)jTable1.getModel();


         model.setRowCount(0);

         while(rs.next())
         {
```

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```java
            model.addRow(new Object[]{ rs.getString("SID"), rs.getString("AGE"),rs.getString("GENDER")
});
        }
         //ResultSet rs = statement.executeQuery(query);

        //JOptionPane.showMessageDialog(new JFrame(), "Updated Successfully", "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);

        /*while(rs.next()) {

            //Date currentDate = rs.getDate(1); // get first column returned
            //System.out.println("Current Date from Oracle is : "+currentDate);
            System.out.println(rs.getString("ID") + rs.getString("AADHAR"));
        }*/
        rs.close();
        statement.close();
        con.close();



    }

 catch(SQLException e)
 {
 System.out.println(e);
 }
  }//GEN-LAST:event_jButton3ActionPerformed

   private void jMenu2MenuSelected(javax.swing.event.MenuEvent evt) {//GEN-
FIRST:event_jMenu2MenuSelected
      Student d = new Student();
      d.show();
      dispose();
      // TODO add your handling code here:
   }//GEN-LAST:event_jMenu2MenuSelected

   private void jMenu4MenuSelected(javax.swing.event.MenuEvent evt) {//GEN-
FIRST:event_jMenu4MenuSelected
      Skills d = new Skills();
      d.show();
      dispose();
      // TODO add your handling code here:
   }//GEN-LAST:event_jMenu4MenuSelected

   private void jMenu5MenuSelected(javax.swing.event.MenuEvent evt) {//GEN-
FIRST:event_jMenu5MenuSelected
       Carrer_Status d = new Carrer_Status();
      d.show();
      dispose();
```

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```java
    // TODO add your handling code here:
  }//GEN-LAST:event_jMenu5MenuSelected

  private void jTextField5ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jTextField5ActionPerformed
    // TODO add your handling code here:
  }//GEN-LAST:event_jTextField5ActionPerformed

  private void jComboBox1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jComboBox1ActionPerformed
    // TODO add your handling code here:
     String SelectedValue =jComboBox1.getSelectedItem().toString();
     jTextField5.setText(SelectedValue);

  }//GEN-LAST:event_jComboBox1ActionPerformed

  private void jTable1MouseClicked(java.awt.event.MouseEvent evt) {//GEN-
FIRST:event_jTable1MouseClicked
DefaultTableModel model = (DefaultTableModel)jTable1.getModel();
    int rowindex = jTable1.getSelectedRow();

    //jComboBox1 j = new jComboBox();
    jTextField4.setText(model.getValueAt(rowindex,0).toString());
    jTextField2.setText(model.getValueAt(rowindex,1).toString());
    jTextField5.setText(model.getValueAt(rowindex,2).toString());      // TODO add your handling code
here:
  }//GEN-LAST:event_jTable1MouseClicked

  /**
   * @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(Student_Description.class.getName()).log(java.util.logging.Level.SEVE
RE, null, ex);
```

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```
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Student_Description.class.getName()).log(java.util.logging.Level.SEVE
RE, null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Student_Description.class.getName()).log(java.util.logging.Level.SEVE
RE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Student_Description.class.getName()).log(java.util.logging.Level.SEVE
RE, null, ex);
        }
        //</editor-fold>

        /* Create and display the form */
        java.awt.EventQueue.invokeLater(() -> {
            new Student_Description().setVisible(true);
        });
    }

    // Variables declaration - do not modify//GEN-BEGIN:variables
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JButton jButton3;
    private javax.swing.JButton jButton4;
    private javax.swing.JComboBox<String> jComboBox1;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JMenu jMenu1;
    private javax.swing.JMenu jMenu2;
    private javax.swing.JMenu jMenu3;
    private javax.swing.JMenu jMenu4;
    private javax.swing.JMenu jMenu5;
    private javax.swing.JMenuBar jMenuBar1;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JTable jTable1;
    private javax.swing.JTextField jTextField2;
    private javax.swing.JTextField jTextField4;
    private javax.swing.JTextField jTextField5;
    // End of variables declaration//GEN-END:variables
}
```

4.SKILLS PAGE

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CAREER DENDROGRAM

```java
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JFrame;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
     * Creates new form Skills
     */
    public Skills() {
        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">//GEN-BEGIN:initComponents
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jScrollPane1 = new javax.swing.JScrollPane();
        jTable1 = new javax.swing.JTable();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jButton4 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();
        jComboBox1 = new javax.swing.JComboBox<>();
        jComboBox2 = new javax.swing.JComboBox<>();
        jTextField2 = new javax.swing.JTextField();
        jTextField3 = new javax.swing.JTextField();
        jTextField4 = new javax.swing.JTextField();
        jComboBox3 = new javax.swing.JComboBox<>();
        jTextField5 = new javax.swing.JTextField();
        jMenuBar1 = new javax.swing.JMenuBar();
        jMenu1 = new javax.swing.JMenu();
        jMenu2 = new javax.swing.JMenu();
        jMenu3 = new javax.swing.JMenu();
        jMenu4 = new javax.swing.JMenu();
        jMenu5 = new javax.swing.JMenu();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());
        getContentPane().add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(662, 48, -1, -1));
```

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```java
    jTable1.setModel(new javax.swing.table.DefaultTableModel(
      new Object [][] {
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null}
      },
      new String [] {
        "Student ID", "Skill Set 1", "Skill Set 2", "AOI"
      }
    ));
    jTable1.addMouseListener(new java.awt.event.MouseAdapter() {
      public void mouseClicked(java.awt.event.MouseEvent evt) {
        jTable1MouseClicked(evt);
      }
    });
    jScrollPane1.setViewportView(jTable1);

    getContentPane().add(jScrollPane1, new org.netbeans.lib.awtextra.AbsoluteConstraints(1031, 93, 435, 334));

    jLabel2.setText("Skills Sets :");
    getContentPane().add(jLabel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(110, 116, -1, -1));

    jLabel3.setFont(new java.awt.Font("Yu Gothic Medium", 0, 18)); // NOI18N
    jLabel3.setText("Student  ID :");
    jLabel3.setToolTipText("");
    getContentPane().add(jLabel3, new org.netbeans.lib.awtextra.AbsoluteConstraints(110, 34, -1, -1));

    jLabel4.setText("Area of Interest :");
    getContentPane().add(jLabel4, new org.netbeans.lib.awtextra.AbsoluteConstraints(65, 321, -1, -1));

    jButton1.setText("Submit");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
      }
    });
    getContentPane().add(jButton1, new org.netbeans.lib.awtextra.AbsoluteConstraints(76, 533, -1, -1));

    jButton2.setText("Modify");
    jButton2.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
      }
    });
```

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CAREER DENDROGRAM

```java
    getContentPane().add(jButton2, new org.netbeans.lib.awtextra.AbsoluteConstraints(326, 533, -1, -
1));

    jButton4.setText("Delete");
    jButton4.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
      }
    });
    getContentPane().add(jButton4, new org.netbeans.lib.awtextra.AbsoluteConstraints(602, 533, -1, -
1));

    jButton3.setText("View Table");
    jButton3.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
      }
    });
    getContentPane().add(jButton3, new org.netbeans.lib.awtextra.AbsoluteConstraints(1180, 530, -1, -
1));

    jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Select ", "Critical
Thinking", "Creativity", "People Management", "Problem Solving", "Emotional Intelligence", "Judgment",
"Decision Making", "Service Oriented", "Negotiation", " " }));
    jComboBox1.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jComboBox1ActionPerformed(evt);
      }
    });
    getContentPane().add(jComboBox1, new org.netbeans.lib.awtextra.AbsoluteConstraints(688, 105,
296, 63));

    jComboBox2.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Select",
"Realistic - DOER'S", "Investigating - THINKERS", "Artistic - CREATORS", "Social - HELPERS", "Enterprising
- PERSUADERS", "Conventional - ORGANISERS", " ", " " }));
    jComboBox2.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jComboBox2ActionPerformed(evt);
      }
    });
    getContentPane().add(jComboBox2, new org.netbeans.lib.awtextra.AbsoluteConstraints(259, 302,
296, 63));

    jTextField2.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField2ActionPerformed(evt);
      }
    });
```

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```
    getContentPane().add(jTextField2, new org.netbeans.lib.awtextra.AbsoluteConstraints(259, 411,
296, 53));


    jTextField3.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          jTextField3ActionPerformed(evt);
       }
    });
    getContentPane().add(jTextField3, new org.netbeans.lib.awtextra.AbsoluteConstraints(259, 199,
296, 53));


    jTextField4.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          jTextField4ActionPerformed(evt);
       }
    });
    getContentPane().add(jTextField4, new org.netbeans.lib.awtextra.AbsoluteConstraints(259, 21, 291,
53));


    jComboBox3.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Select ", "Critical
Thinking", "Creativity", "People Management", "Problem Solving", "Emotional Intelligence", "Judgment",
"Decision Making", "Service Oriented", "Negotiation", " " }));
    jComboBox3.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          jComboBox3ActionPerformed(evt);
       }
    });
    getContentPane().add(jComboBox3, new org.netbeans.lib.awtextra.AbsoluteConstraints(259, 105,
296, 63));


    jTextField5.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          jTextField5ActionPerformed(evt);
       }
    });
    getContentPane().add(jTextField5, new org.netbeans.lib.awtextra.AbsoluteConstraints(688, 199,
296, 53));


    jMenuBar1.add(jMenu1);


    jMenu2.setText("Student ");
    jMenu2.addMenuListener(new javax.swing.event.MenuListener() {
       public void menuCanceled(javax.swing.event.MenuEvent evt) {
       }
       public void menuDeselected(javax.swing.event.MenuEvent evt) {
       }
       public void menuSelected(javax.swing.event.MenuEvent evt) {
          jMenu2MenuSelected(evt);
       }
```

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```java
        });
        jMenuBar1.add(jMenu2);

        jMenu3.setText("Student_Description");
        jMenu3.addMenuListener(new javax.swing.event.MenuListener() {
            public void menuCanceled(javax.swing.event.MenuEvent evt) {
            }
            public void menuDeselected(javax.swing.event.MenuEvent evt) {
            }
            public void menuSelected(javax.swing.event.MenuEvent evt) {
                jMenu3MenuSelected(evt);
            }
        });
        jMenuBar1.add(jMenu3);

        jMenu4.setText("Skills");
        jMenuBar1.add(jMenu4);

        jMenu5.setText("Carrer_Status");
        jMenu5.addMenuListener(new javax.swing.event.MenuListener() {
            public void menuCanceled(javax.swing.event.MenuEvent evt) {
            }
            public void menuDeselected(javax.swing.event.MenuEvent evt) {
            }
            public void menuSelected(javax.swing.event.MenuEvent evt) {
                jMenu5MenuSelected(evt);
            }
        });
        jMenuBar1.add(jMenu5);

        setJMenuBar(jMenuBar1);

        pack();
    }// </editor-fold>//GEN-END:initComponents

    private void jMenu3MenuSelected(javax.swing.event.MenuEvent evt) {//GEN-FIRST:event_jMenu3MenuSelected
        Student_Description d = new Student_Description();
        d.show();
        dispose();

        // TODO add your handling code here:
    }//GEN-LAST:event_jMenu3MenuSelected

    private void jMenu2MenuSelected(javax.swing.event.MenuEvent evt) {//GEN-FIRST:event_jMenu2MenuSelected
        Student d = new Student();
        d.show();
        dispose();
```

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CAREER DENDROGRAM

```java
    // TODO add your handling code here:
  }//GEN-LAST:event_jMenu2MenuSelected

  private void jMenu5MenuSelected(javax.swing.event.MenuEvent evt) {//GEN-
FIRST:event_jMenu5MenuSelected
   Carrer_Status d = new Carrer_Status();
     d.show();
     dispose();       // TODO add your handling code here:
  }//GEN-LAST:event_jMenu5MenuSelected

  private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jButton1ActionPerformed
 try
 {
        DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());

        // Connect to Oracle Database
        Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE"
,"shruthi","kovvurss");

        Statement statement = con.createStatement();

        // Execute a SELECT query on Oracle Dummy DUAL Table. Useful for retrieving system values
        // Enables us to retrieve values as if querying from a table
        String query = "INSERT INTO SKILLS VALUES(" + "'"+jTextField4.getText() + "','"+"'"+
jTextField3.getText()+"','"+"'"+ jTextField5.getText()+"','"+"'"+ jTextField2.getText()+"'" +")";
        //String sqlqry="insert into customers values()"
        ResultSet rs = statement.executeQuery(query);

        JOptionPane.showMessageDialog(new JFrame(), "Inserted Successfully", "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);

        rs.close();
        statement.close();
        con.close();


    }

 catch(Exception e)
 {
 System.out.println(e);
 }
     // TODO add your handling code here:

        // TODO add your handling code here:

  }//GEN-LAST:event_jButton1ActionPerformed
```

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```java
    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jButton2ActionPerformed
 try
 {
        if(jTable1.getRowCount()==0)
        {
        JOptionPane.showMessageDialog(this, "Please load the table", "Notice",
JOptionPane.INFORMATION_MESSAGE);

        }

        else
        {
        // Load Oracle JDBC Driver
         int r = jTable1.getSelectedRow();

        if(r<0)
        {
            JOptionPane.showMessageDialog(this, "Please select single Row For Update..", "Notice",
JOptionPane.INFORMATION_MESSAGE);
        }
        else
        {
        DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());

         // Connect to Oracle Database
         Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE"
,"shruthi","kovvurss");

         Statement statement = con.createStatement();


         String query = "UPDATE SKILLS SET SS1=" +"'"+ jTextField3.getText() +"',SS2=" +"'"+
jTextField5.getText() +"',  AOI ="+" '"+ jTextField2.getText() +"' WHERE SID =+" + jTextField4.getText();
         ResultSet rs = statement.executeQuery(query);
         JOptionPane.showMessageDialog(new JFrame(), "Upadated Successfully", "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);

         rs.close();
         statement.close();
         con.close();
        }
        }

    }

 catch(Exception e)
 {
```

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```java
  System.out.println(e);
  }      // TODO add your handling code here:
  }//GEN-LAST:event_jButton2ActionPerformed


  private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jButton4ActionPerformed
      try
  {
        if(jTable1.getRowCount()==0)
        {
        JOptionPane.showMessageDialog(this, "Please load the table", "Notice",
JOptionPane.INFORMATION_MESSAGE);


        }

        else
        {
        // Load Oracle JDBC Driver
        int r = jTable1.getSelectedRow();

        if(r<0)
        {
           JOptionPane.showMessageDialog(this, "Please select single Row For Deleting..", "Notice",
JOptionPane.INFORMATION_MESSAGE);
        }
        else
        {
        DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());

         // Connect to Oracle Database
         Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE"
,"shruthi","kovvurss");

        Statement statement = con.createStatement();

        // Execute a SELECT query on Oracle Dummy DUAL Table. Useful for retrieving system values
        // Enables us to retrieve values as if querying from a table
        String query = "DELETE from SKILLS where sid =  '" + jTextField4.getText() + "'";
        //String sqlqry="insert into customers values()"
        ResultSet rs = statement.executeQuery(query);

        JOptionPane.showMessageDialog(new JFrame(), "Deleted Successfully", "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);

        /*while(rs.next()) {

           //Date currentDate = rs.getDate(1); // get first column returned
           //System.out.println("Current Date from Oracle is : "+currentDate);
           System.out.println(rs.getString("ID") + rs.getString("AADHAR"));
```

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```
            }*/
            rs.close();
            statement.close();
            con.close();
          }
          }


      }

  catch(Exception e)
  {
  System.out.println(e);
  }       // TODO add your handling code here:
  }//GEN-LAST:event_jButton4ActionPerformed

    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jButton3ActionPerformed
  try
  {
          DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());

          // Connect to Oracle Database
          Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE"
,"shruthi","kovvurss");
          Statement statement = con.createStatement();
          String query = "SELECT * FROM SKILLS";
          ResultSet rs = statement.executeQuery(query);

          DefaultTableModel model = (DefaultTableModel)jTable1.getModel();


          model.setRowCount(0);

          while(rs.next())
          {
             model.addRow(new Object[]{ rs.getString("SID"),
rs.getString("SS1"),rs.getString("SS2"),rs.getString("AOI") });
          }

          rs.close();
          statement.close();
          con.close();
      }

  catch(Exception e)
  {
  System.out.println(e);
  }
                          // TODO add your handling code here:
```

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CAREER DENDROGRAM

```java
    }//GEN-LAST:event_jButton3ActionPerformed

    private void jComboBox1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jComboBox1ActionPerformed
        // TODO add your handling code here:
        String SelectedValue =jComboBox1.getSelectedItem().toString();
        jTextField5.setText(SelectedValue);

    }//GEN-LAST:event_jComboBox1ActionPerformed

    private void jComboBox2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jComboBox2ActionPerformed
        // TODO add your handling code here:
        String SelectedValue =jComboBox2.getSelectedItem().toString();
        jTextField2.setText(SelectedValue);
    }//GEN-LAST:event_jComboBox2ActionPerformed

    private void jTextField2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jTextField2ActionPerformed
        // TODO add your handling code here:
    }//GEN-LAST:event_jTextField2ActionPerformed

    private void jTextField3ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jTextField3ActionPerformed
        // TODO add your handling code here:
    }//GEN-LAST:event_jTextField3ActionPerformed

    private void jTextField4ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jTextField4ActionPerformed
        // TODO add your handling code here:
    }//GEN-LAST:event_jTextField4ActionPerformed

    private void jComboBox3ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jComboBox3ActionPerformed
        String SelectedValue =jComboBox3.getSelectedItem().toString();
        jTextField3.setText(SelectedValue);

        // TODO add your handling code here:
    }//GEN-LAST:event_jComboBox3ActionPerformed

    private void jTextField5ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jTextField5ActionPerformed
        // TODO add your handling code here:
    }//GEN-LAST:event_jTextField5ActionPerformed

    private void jTable1MouseClicked(java.awt.event.MouseEvent evt) {//GEN-
FIRST:event_jTable1MouseClicked
DefaultTableModel model = (DefaultTableModel)jTable1.getModel();
        int rowindex = jTable1.getSelectedRow();
```

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```java
    //jComboBox1 j = new jComboBox();
    jTextField4.setText(model.getValueAt(rowindex,0).toString());
    jTextField3.setText(model.getValueAt(rowindex,1).toString());
    jTextField5.setText(model.getValueAt(rowindex,2).toString());
    jTextField2.setText(model.getValueAt(rowindex,3).toString());      // TODO add your handling code
here:
  }//GEN-LAST:event_jTable1MouseClicked

  /**
   * @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(Skills.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
    } catch (InstantiationException ex) {
      java.util.logging.Logger.getLogger(Skills.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
    } catch (IllegalAccessException ex) {
      java.util.logging.Logger.getLogger(Skills.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
      java.util.logging.Logger.getLogger(Skills.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 Skills().setVisible(true);
      }
    });
  }
```

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K SHRUTHI

CAREER DENDROGRAM

```java
    // Variables declaration - do not modify//GEN-BEGIN:variables
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JButton jButton3;
    private javax.swing.JButton jButton4;
    private javax.swing.JComboBox<String> jComboBox1;
    private javax.swing.JComboBox<String> jComboBox2;
    private javax.swing.JComboBox<String> jComboBox3;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JMenu jMenu1;
    private javax.swing.JMenu jMenu2;
    private javax.swing.JMenu jMenu3;
    private javax.swing.JMenu jMenu4;
    private javax.swing.JMenu jMenu5;
    private javax.swing.JMenuBar jMenuBar1;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JTable jTable1;
    private javax.swing.JTextField jTextField2;
    private javax.swing.JTextField jTextField3;
    private javax.swing.JTextField jTextField4;
    private javax.swing.JTextField jTextField5;
    // End of variables declaration//GEN-END:variables
}
```

5.CAREER STATUS PAGE

```java
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.ImageIcon;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;

public class Carrer_Status extends javax.swing.JFrame {

  /**
   * Creates new form Carrer_Status
   */
  //JLabel jLabel2= new JLabel();
  public Carrer_Status() {
    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">//GEN-BEGIN:initComponents
  private void initComponents() {

    jScrollPane1 = new javax.swing.JScrollPane();
    jTable1 = new javax.swing.JTable();
    jLabel1 = new javax.swing.JLabel();
    jTextField4 = new javax.swing.JTextField();
    jLabel6 = new javax.swing.JLabel();
    jTextField3 = new javax.swing.JTextField();
    jComboBox1 = new javax.swing.JComboBox<>();
    jButton1 = new javax.swing.JButton();
    jButton2 = new javax.swing.JButton();
    jButton4 = new javax.swing.JButton();
    jButton3 = new javax.swing.JButton();
    jMenuBar1 = new javax.swing.JMenuBar();
    jMenu1 = new javax.swing.JMenu();
    jMenu2 = new javax.swing.JMenu();
    jMenu3 = new javax.swing.JMenu();
    jMenu4 = new javax.swing.JMenu();
    jMenu5 = new javax.swing.JMenu();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

    jTable1.setModel(new javax.swing.table.DefaultTableModel(
      new Object [][] {
        {null, null},
        {null, null},
        {null, null},
        {null, null}
      },
      new String [] {
        "Student ID", "Job Status"
      }
    ));
    jTable1.setAlignmentX(1.0F);
    jTable1.setAlignmentY(1.0F);
    jTable1.addMouseListener(new java.awt.event.MouseAdapter() {
      public void mouseClicked(java.awt.event.MouseEvent evt) {
        jTable1MouseClicked(evt);
      }
```

```
    });
    jScrollPane1.setViewportView(jTable1);

    getContentPane().add(jScrollPane1, new org.netbeans.lib.awtextra.AbsoluteConstraints(539, 60,
435, 334));

    jLabel1.setText("Student ID :");
    getContentPane().add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(63, 73, -1, -1));
    getContentPane().add(jTextField4, new org.netbeans.lib.awtextra.AbsoluteConstraints(190, 59, 306,
53));

    jLabel6.setText("Job_Status :");
    getContentPane().add(jLabel6, new org.netbeans.lib.awtextra.AbsoluteConstraints(63, 171, -1, -1));
    getContentPane().add(jTextField3, new org.netbeans.lib.awtextra.AbsoluteConstraints(190, 241,
306, 53));

    jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Select", "YES",
"NO" }));
    jComboBox1.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          jComboBox1ActionPerformed(evt);
       }
    });
    getContentPane().add(jComboBox1, new org.netbeans.lib.awtextra.AbsoluteConstraints(190, 152,
306, 63));

    jButton1.setText("Submit");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          jButton1ActionPerformed(evt);
       }
    });
    getContentPane().add(jButton1, new org.netbeans.lib.awtextra.AbsoluteConstraints(74, 447, -1, -
1));

    jButton2.setText("Modify");
    jButton2.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          jButton2ActionPerformed(evt);
       }
    });
    getContentPane().add(jButton2, new org.netbeans.lib.awtextra.AbsoluteConstraints(245, 447, -1, -
1));

    jButton4.setText("Delete");
    jButton4.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          jButton4ActionPerformed(evt);
       }
```

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```
        });
        getContentPane().add(jButton4, new org.netbeans.lib.awtextra.AbsoluteConstraints(422, 447, -1, -
1));

        jButton3.setText("View Table");
        jButton3.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton3ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton3, new org.netbeans.lib.awtextra.AbsoluteConstraints(702, 447, -1, -
1));

        jMenuBar1.add(jMenu1);

        jMenu2.setText("Student ");
        jMenu2.addMenuListener(new javax.swing.event.MenuListener() {
            public void menuCanceled(javax.swing.event.MenuEvent evt) {
            }
            public void menuDeselected(javax.swing.event.MenuEvent evt) {
            }
            public void menuSelected(javax.swing.event.MenuEvent evt) {
                jMenu2MenuSelected(evt);
            }
        });
        jMenuBar1.add(jMenu2);

        jMenu3.setText("Student_Description");
        jMenuBar1.add(jMenu3);

        jMenu4.setText("Skills");
        jMenu4.addMenuListener(new javax.swing.event.MenuListener() {
            public void menuCanceled(javax.swing.event.MenuEvent evt) {
            }
            public void menuDeselected(javax.swing.event.MenuEvent evt) {
            }
            public void menuSelected(javax.swing.event.MenuEvent evt) {
                jMenu4MenuSelected(evt);
            }
        });
        jMenuBar1.add(jMenu4);

        jMenu5.setText("Carrer_Status");
        jMenu5.addMenuListener(new javax.swing.event.MenuListener() {
            public void menuCanceled(javax.swing.event.MenuEvent evt) {
            }
            public void menuDeselected(javax.swing.event.MenuEvent evt) {
            }
            public void menuSelected(javax.swing.event.MenuEvent evt) {
```

```
            jMenu5MenuSelected(evt);
        }
    });
    jMenuBar1.add(jMenu5);

    setJMenuBar(jMenuBar1);

    pack();
  }// </editor-fold>//GEN-END:initComponents

  private void jComboBox1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jComboBox1ActionPerformed
    // TODO add your handling code here:
     String SelectedValue =jComboBox1.getSelectedItem().toString();
     jTextField3.setText(SelectedValue);

  }//GEN-LAST:event_jComboBox1ActionPerformed

  private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jButton1ActionPerformed
try
 {
        DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());

        // Connect to Oracle Database
        Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE"
,"shruthi","kovvurss");

        Statement statement = con.createStatement();

        // Execute a SELECT query on Oracle Dummy DUAL Table. Useful for retrieving system values
        // Enables us to retrieve values as if querying from a table
        String query = "INSERT INTO CARRER VALUES(" + "'"+jTextField4.getText() + "','"+"'"+
jTextField3.getText()+"'" +")";
        //String sqlqry="insert into customers values()"
        ResultSet rs = statement.executeQuery(query);

        JOptionPane.showMessageDialog(new JFrame(), "Inserted Successfully", "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);

        rs.close();
        statement.close();
        con.close();



    }

 catch(Exception e)
```

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CAREER DENDROGRAM

```java
 {
 System.out.println(e);
 }
     // TODO add your handling code here:
  }//GEN-LAST:event_jButton1ActionPerformed

  private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jButton2ActionPerformed
try
 {
        if(jTable1.getRowCount()==0)
        {
        JOptionPane.showMessageDialog(this, "Please load the table", "Notice",
JOptionPane.INFORMATION_MESSAGE);

        }

        else
        {
        // Load Oracle JDBC Driver
        int r = jTable1.getSelectedRow();

        if(r<0)
        {
           JOptionPane.showMessageDialog(this, "Please select single Row For Update..", "Notice",
JOptionPane.INFORMATION_MESSAGE);
        }
        else
        {
        DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());

         // Connect to Oracle Database
         Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE"
,"shruthi","kovvurss");

        Statement statement = con.createStatement();



        String query = "UPDATE CARRER SET JS=" +"'"+ jTextField3.getText() +"' WHERE SID =+" +
jTextField4.getText();
        ResultSet rs = statement.executeQuery(query);
        JOptionPane.showMessageDialog(new JFrame(), "Upadated Successfully", "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);

        rs.close();
        statement.close();
        con.close();
        }
        }
```

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```java
    }

 catch(Exception e)
 {
 System.out.println(e);
 }      // TODO add your handling code here:


    // TODO add your handling code here:
  }//GEN-LAST:event_jButton2ActionPerformed

  private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jButton4ActionPerformed
  try
 {
      if(jTable1.getRowCount()==0)
      {
      JOptionPane.showMessageDialog(this, "Please load the table", "Notice",
JOptionPane.INFORMATION_MESSAGE);

      }

      else
      {
      // Load Oracle JDBC Driver
       int r = jTable1.getSelectedRow();

       if(r<0)
       {
         JOptionPane.showMessageDialog(this, "Please select single Row For deleting..", "Notice",
JOptionPane.INFORMATION_MESSAGE);
       }
       else
       {
       DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());

        // Connect to Oracle Database
        Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE"
,"shruthi","kovvurss");

        Statement statement = con.createStatement();

        // Execute a SELECT query on Oracle Dummy DUAL Table. Useful for retrieving system values
        // Enables us to retrieve values as if querying from a table
        String query = "DELETE from CARRER where sid =  '" + jTextField4.getText() + "'";
        //String sqlqry="insert into customers values()"
        ResultSet rs = statement.executeQuery(query);
```

```
        JOptionPane.showMessageDialog(new JFrame(), "Deleted Successfully", "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);


        /*while(rs.next()) {

            //Date currentDate = rs.getDate(1); // get first column returned
            //System.out.println("Current Date from Oracle is : "+currentDate);
            System.out.println(rs.getString("ID") + rs.getString("AADHAR"));
        }*/
        rs.close();
        statement.close();
        con.close();
      }
      }


    }


 catch(Exception e)
 {
 System.out.println(e);
 }



    // TODO add your handling code here:
  }//GEN-LAST:event_jButton4ActionPerformed


  private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jButton3ActionPerformed
try
 {
        DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());

        // Connect to Oracle Database
        Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE"
,"shruthi","kovvurss");
        Statement statement = con.createStatement();

        // Execute a SELECT query on Oracle Dummy DUAL Table. Useful for retrieving system values
        // Enables us to retrieve values as if querying from a table
        /// String query = "UPDATE INTO STUDENT VALUES(" + "'"+jTextField2.getText() + "','"+"'"+
jTextField3.getText()+"'" +")";
        //String sqlqry="insert into customers values()"
         //String query = "UPDATE student   SET  Sname='" + jTextField3.getText() + "'  WHERE sid ='" +
jTextField2.getText() +"'";
        String query = "SELECT * FROM CARRER";
        ResultSet rs = statement.executeQuery(query);

        DefaultTableModel model = (DefaultTableModel)jTable1.getModel();
```

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```
        model.setRowCount(0);

        while(rs.next())
        {
           model.addRow(new Object[]{ rs.getString("SID"), rs.getString("JS") });
        }
         //ResultSet rs = statement.executeQuery(query);

        //JOptionPane.showMessageDialog(new JFrame(), "Updated Successfully", "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);

        /*while(rs.next()) {

           //Date currentDate = rs.getDate(1); // get first column returned
           //System.out.println("Current Date from Oracle is : "+currentDate);
           System.out.println(rs.getString("ID") + rs.getString("AADHAR"));
        }*/
        rs.close();
        statement.close();
        con.close();



   }

  catch(Exception e)
  {
  System.out.println(e);
  }      // TODO add your handling code here:
   }//GEN-LAST:event_jButton3ActionPerformed

   private void jTable1MouseClicked(java.awt.event.MouseEvent evt) {//GEN-
FIRST:event_jTable1MouseClicked
DefaultTableModel model = (DefaultTableModel)jTable1.getModel();
     int rowindex = jTable1.getSelectedRow();

     //jComboBox1 j = new jComboBox();
     jTextField4.setText(model.getValueAt(rowindex,0).toString());
     jTextField3.setText(model.getValueAt(rowindex,1).toString());
         // TODO add your handling code here:
   }//GEN-LAST:event_jTable1MouseClicked

   private void jMenu2MenuSelected(javax.swing.event.MenuEvent evt) {//GEN-
FIRST:event_jMenu2MenuSelected
     Student d = new Student();
     d.show();
     dispose();
     // TODO add your handling code here:
```

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```
    }//GEN-LAST:event_jMenu2MenuSelected

    private void jMenu4MenuSelected(javax.swing.event.MenuEvent evt) {//GEN-
FIRST:event_jMenu4MenuSelected
        Skills d = new Skills();
        d.show();
        dispose();
        // TODO add your handling code here:
    }//GEN-LAST:event_jMenu4MenuSelected

    private void jMenu5MenuSelected(javax.swing.event.MenuEvent evt) {//GEN-
FIRST:event_jMenu5MenuSelected
        Carrer_Status d = new Carrer_Status();
        d.show();
        dispose();
        // TODO add your handling code here:
    }//GEN-LAST:event_jMenu5MenuSelected

    /**
     * @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(Carrer_Status.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Carrer_Status.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Carrer_Status.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
```

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```java
java.util.logging.Logger.getLogger(Carrer_Status.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 Carrer_Status().setVisible(true);
       }
    });
  }


  // Variables declaration - do not modify//GEN-BEGIN:variables
  private javax.swing.JButton jButton1;
  private javax.swing.JButton jButton2;
  private javax.swing.JButton jButton3;
  private javax.swing.JButton jButton4;
  private javax.swing.JComboBox<String> jComboBox1;
  private javax.swing.JLabel jLabel1;
  private javax.swing.JLabel jLabel6;
  private javax.swing.JMenu jMenu1;
  private javax.swing.JMenu jMenu2;
  private javax.swing.JMenu jMenu3;
  private javax.swing.JMenu jMenu4;
  private javax.swing.JMenu jMenu5;
  private javax.swing.JMenuBar jMenuBar1;
  private javax.swing.JScrollPane jScrollPane1;
  private javax.swing.JTable jTable1;
  private javax.swing.JTextField jTextField3;
  private javax.swing.JTextField jTextField4;
  // End of variables declaration//GEN-END:variables
}
```

6.DENDROGRAM PAGE

```java
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.table.DefaultTableModel;
public class Dendrogram extends javax.swing.JFrame {

  /**
   * Creates new form Dendogram
   */
```

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CAREER DENDROGRAM

```java
    public Dendrogram() {
        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">//GEN-BEGIN:initComponents
    private void initComponents() {

        jTextField2 = new javax.swing.JTextField();
        jButton1 = new javax.swing.JButton();
        jScrollPane1 = new javax.swing.JScrollPane();
        jTree1 = new javax.swing.JTree();
        jLabel1 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jScrollPane3 = new javax.swing.JScrollPane();
        jTextArea1 = new javax.swing.JTextArea();
        jScrollPane2 = new javax.swing.JScrollPane();
        jTable1 = new javax.swing.JTable();
        jLabel2 = new javax.swing.JLabel();
        jTextField3 = new javax.swing.JTextField();
        jButton3 = new javax.swing.JButton();

        jTextField2.setText("jTextField2");

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

        jButton1.setBackground(new java.awt.Color(233, 249, 235));
        jButton1.setFont(new java.awt.Font("Georgia", 3, 24)); // NOI18N
        jButton1.setText("BACK");
        jButton1.setBorder(null);
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton1, new org.netbeans.lib.awtextra.AbsoluteConstraints(770, 590, 130,
40));

        jTree1.setBackground(new java.awt.Color(242, 244, 231));
        jTree1.setFont(new java.awt.Font("Georgia", 3, 18)); // NOI18N
        javax.swing.tree.DefaultMutableTreeNode treeNode1 = new
javax.swing.tree.DefaultMutableTreeNode("CARRER CHOICES");
```

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CAREER DENDROGRAM

```
    javax.swing.tree.DefaultMutableTreeNode treeNode2 = new
javax.swing.tree.DefaultMutableTreeNode("REALISTIC");
    javax.swing.tree.DefaultMutableTreeNode treeNode3 = new
javax.swing.tree.DefaultMutableTreeNode("AGRICULTURE");
    treeNode2.add(treeNode3);
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("MACHINIST");
    treeNode2.add(treeNode3);
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("FLORIST");
    treeNode2.add(treeNode3);
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("POTTERY");
    treeNode2.add(treeNode3);
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("CLOTHING");
    treeNode2.add(treeNode3);
    treeNode1.add(treeNode2);
    treeNode2 = new javax.swing.tree.DefaultMutableTreeNode("INVESTIGATING");
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("CIVIL SERVICE");
    treeNode2.add(treeNode3);
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("ARMY");
    treeNode2.add(treeNode3);
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("CODERS");
    treeNode2.add(treeNode3);
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("DOCTORS");
    treeNode2.add(treeNode3);
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("MEDIA");
    treeNode2.add(treeNode3);
    treeNode1.add(treeNode2);
    treeNode2 = new javax.swing.tree.DefaultMutableTreeNode("ARTISTIC");
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("SINGING");
    treeNode2.add(treeNode3);
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("DANCING");
    treeNode2.add(treeNode3);
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("INSTRUMENTAL MUSIC");
    treeNode2.add(treeNode3);
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("PAINTING");
    treeNode2.add(treeNode3);
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("DRAWING");
    treeNode2.add(treeNode3);
    treeNode1.add(treeNode2);
    treeNode2 = new javax.swing.tree.DefaultMutableTreeNode("SOCIAL");
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("COUNSELOR");
    treeNode2.add(treeNode3);
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("SOCIAL WELFARE WORKER");
    treeNode2.add(treeNode3);
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("SOCIAL ACTIVISTS");
    treeNode2.add(treeNode3);
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("HUMAN VALUES");
    treeNode2.add(treeNode3);
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("ANIMAL RIGHTS");
    treeNode2.add(treeNode3);
```

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CAREER DENDROGRAM

```java
    treeNode1.add(treeNode2);
    treeNode2 = new javax.swing.tree.DefaultMutableTreeNode("ENTERPRISING");
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("BUSINESS");
    treeNode2.add(treeNode3);
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("ENTREPRENEUR");
    treeNode2.add(treeNode3);
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("MARKETING");
    treeNode2.add(treeNode3);
    treeNode1.add(treeNode2);
    treeNode2 = new javax.swing.tree.DefaultMutableTreeNode("CONVENTIONAL");
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("ACCOUNTANTS");
    treeNode2.add(treeNode3);
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("DESK JOBS");
    treeNode2.add(treeNode3);
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("TEACHING");
    treeNode2.add(treeNode3);
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("CARE TAKER");
    treeNode2.add(treeNode3);
    treeNode3 = new javax.swing.tree.DefaultMutableTreeNode("BANKING");
    treeNode2.add(treeNode3);
    treeNode1.add(treeNode2);
    jTree1.setModel(new javax.swing.tree.DefaultTreeModel(treeNode1));
    jScrollPane1.setViewportView(jTree1);

    getContentPane().add(jScrollPane1, new org.netbeans.lib.awtextra.AbsoluteConstraints(30, 50, 400,
560));

    jLabel1.setFont(new java.awt.Font("Georgia", 3, 24)); // NOI18N
    jLabel1.setText("AREA OF INTEREST:");
    getContentPane().add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(470, 150, -1, -
1));

    jTextField1.setBackground(new java.awt.Color(230, 241, 225));
    jTextField1.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField1ActionPerformed(evt);
      }
    });
    getContentPane().add(jTextField1, new org.netbeans.lib.awtextra.AbsoluteConstraints(770, 130,
180, 54));

    jTextArea1.setColumns(20);
    jTextArea1.setRows(5);
    jScrollPane3.setViewportView(jTextArea1);

    getContentPane().add(jScrollPane3, new org.netbeans.lib.awtextra.AbsoluteConstraints(630, 350,
390, 140));

    jTable1.setModel(new javax.swing.table.DefaultTableModel(
```

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```
        new Object [][] {
          {null, null},
          {null, null},
          {null, null},
          {null, null}
        },
        new String [] {
          "SID", "AOI"
        }
    ));
    jTable1.addMouseListener(new java.awt.event.MouseAdapter() {
      public void mouseClicked(java.awt.event.MouseEvent evt) {
        jTable1MouseClicked(evt);
      }
    });
    jScrollPane2.setViewportView(jTable1);

    getContentPane().add(jScrollPane2, new org.netbeans.lib.awtextra.AbsoluteConstraints(1070, 150,
410, 210));

    jLabel2.setFont(new java.awt.Font("Georgia", 3, 24)); // NOI18N
    jLabel2.setText("STUDENT ID :");
    getContentPane().add(jLabel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(550, 30, -1, -1));

    jTextField3.setBackground(new java.awt.Color(230, 241, 225));
    jTextField3.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField3ActionPerformed(evt);
      }
    });
    getContentPane().add(jTextField3, new org.netbeans.lib.awtextra.AbsoluteConstraints(770, 20, 180,
60));

    jButton3.setBackground(new java.awt.Color(233, 249, 235));
    jButton3.setFont(new java.awt.Font("Georgia", 3, 24)); // NOI18N
    jButton3.setText("VIEW");
    jButton3.setBorder(null);
    jButton3.addMouseListener(new java.awt.event.MouseAdapter() {
      public void mouseClicked(java.awt.event.MouseEvent evt) {
        jButton3MouseClicked(evt);
      }
    });
    jButton3.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
      }
    });
    getContentPane().add(jButton3, new org.netbeans.lib.awtextra.AbsoluteConstraints(1220, 470,
130, 40));
```

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```
    pack();
  }// </editor-fold>//GEN-END:initComponents

  private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jButton1ActionPerformed
    // TODO add your handling code here:
    dispose();
  }//GEN-LAST:event_jButton1ActionPerformed

  private void jTable1MouseClicked(java.awt.event.MouseEvent evt) {//GEN-
FIRST:event_jTable1MouseClicked
    DefaultTableModel model = (DefaultTableModel)jTable1.getModel();
    int rowindex = jTable1.getSelectedRow();

    //jComboBox1 j = new jComboBox();
    jTextField3.setText(model.getValueAt(rowindex,0).toString());
    jTextField1.setText(model.getValueAt(rowindex,1).toString());
  // TODO add your handling code here:
    String s= jTextField1.getText();
    System.out.println(s);
    if(null != s)
    switch (s) {
      case "Realistic - DOER'S":
        jTextArea1.setText("AGRICULTURE\nMACHINIST\nFLORISTS\nPOTTERY\nCLOTHING");
        break;
      case "Investigating - THINKERS":
        jTextArea1.setText("CIVIL SERVICE\nARMY\nCODERS\nDOCTOR\nMEDIA\n");
        break;
      case "Artistic - CREATORS":
        jTextArea1.setText("SINGING\nDANCING\nINSTRUMENTAL MUSIC\nDRAWING\nPAINTING");
        break;
      case "Social - HELPERS":
        jTextArea1.setText("COUNSELOR\nSOCIAL WELFARE ACTIVITIES\nSOCIAL ACTIVITIES\nHUMAN
RIGHTS\nLAW\nANIMAL RIGHTS");
        break;
      case "Enterprising - PERSUADERS":
        jTextArea1.setText("BUSINESS\nMARKETING\nENTREPENEURS");
        break;
      case "Conventional - ORGANISERS":
        jTextArea1.setText("ACCOUNTANTS\nDESK JOBS\nTEACHING\nCARE TAKER\nBANKING");
        break;
      default:
        break;
    }

  }//GEN-LAST:event_jTable1MouseClicked
```

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```java
    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jButton3ActionPerformed
        // TODO add your handling code here:
        try
        {
            DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());

            // Connect to Oracle Database
            Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE"
,"shruthi","kovvurss");
            Statement statement = con.createStatement();

            String query = "SELECT * FROM SKILLS";
            ResultSet rs = statement.executeQuery(query);

            DefaultTableModel model = (DefaultTableModel)jTable1.getModel();

            model.setRowCount(0);

            while(rs.next())
            {
                model.addRow(new Object[]{ rs.getString("SID"), rs.getString("AOI") });
            }

            rs.close();
            statement.close();
            con.close();

        }

        catch(Exception e)
        {
            System.out.println(e);
        }      // TODO add your handling code here:


    }//GEN-LAST:event_jButton3ActionPerformed

    private void jButton3MouseClicked(java.awt.event.MouseEvent evt) {//GEN-
FIRST:event_jButton3MouseClicked
        // TODO add your handling code here:
        DefaultTableModel model = (DefaultTableModel)jTable1.getModel();
        int rowindex = jTable1.getSelectedRow();

        //jComboBox1 j = new jComboBox();
        jTextField1.setText(model.getValueAt(rowindex,0).toString());
        jTextField3.setText(model.getValueAt(rowindex,1).toString());
        //jTextField3.setText(model.getValueAt(rowindex,2).toString())
    }//GEN-LAST:event_jButton3MouseClicked
```

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```
    private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jTextField1ActionPerformed
        // TODO add your handling code here:
    }//GEN-LAST:event_jTextField1ActionPerformed

    private void jTextField3ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jTextField3ActionPerformed
        // TODO add your handling code here:
    }//GEN-LAST:event_jTextField3ActionPerformed

    /**
     * @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(Dendrogram.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Dendrogram.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Dendrogram.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Dendrogram.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
        }
        //</editor-fold>
        //</editor-fold>

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

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CAREER DENDROGRAM
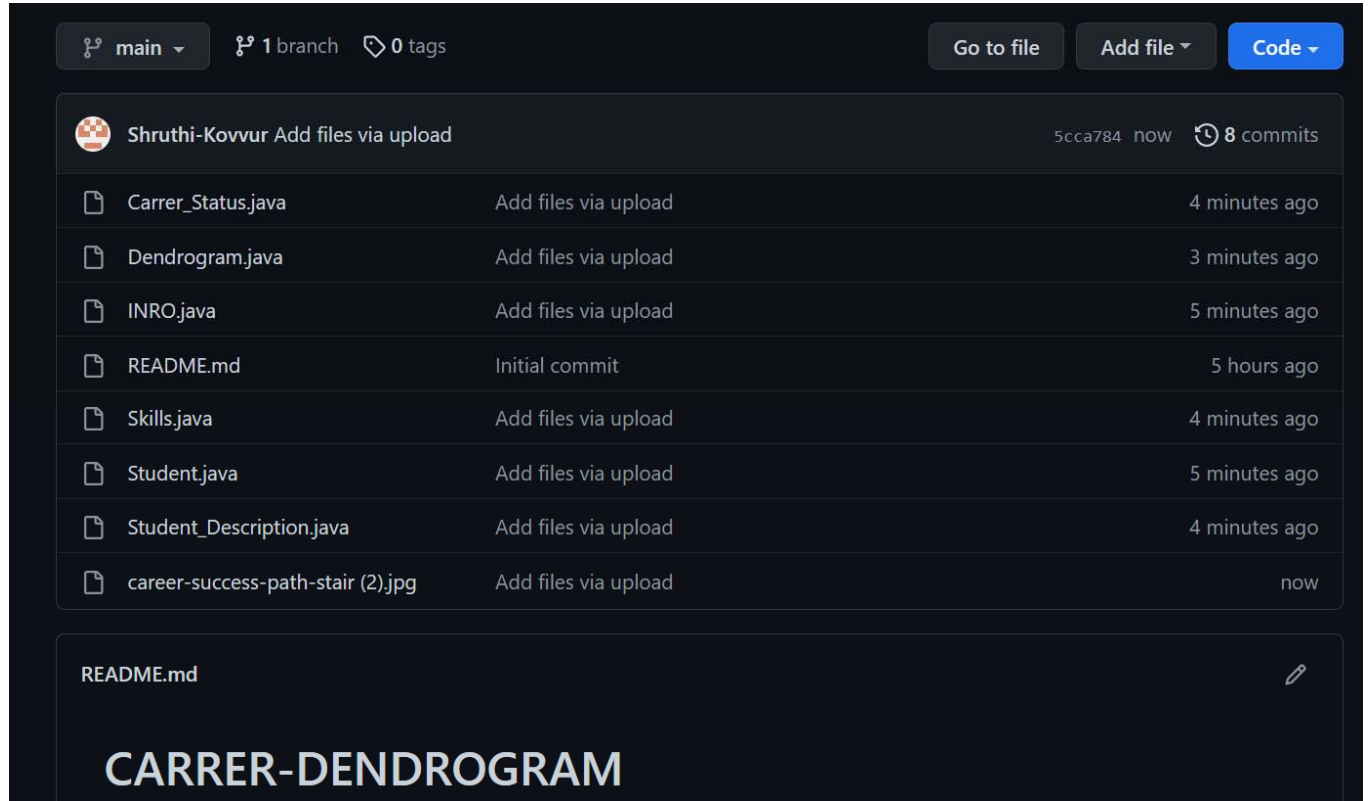
```java
    java.awt.EventQueue.invokeLater(new Runnable() {
      public void run() {
        new Dendrogram().setVisible(true);
      }
    });
  }

  // Variables declaration - do not modify//GEN-BEGIN:variables
  private javax.swing.JButton jButton1;
  private javax.swing.JButton jButton3;
  private javax.swing.JLabel jLabel1;
  private javax.swing.JLabel jLabel2;
  private javax.swing.JScrollPane jScrollPane1;
  private javax.swing.JScrollPane jScrollPane2;
  private javax.swing.JScrollPane jScrollPane3;
  private javax.swing.JTable jTable1;
  private javax.swing.JTextArea jTextArea1;
  private javax.swing.JTextField jTextField1;
  private javax.swing.JTextField jTextField2;
  private javax.swing.JTextField jTextField3;
  private javax.swing.JTree jTree1;
  // End of variables declaration//GEN-END:variables
}
```

GitHub Links and Folder Structure

Link: **https://github.com/Shruthi-Kovvur/CARRER-DENDROGRAM.git**

Folder Structure:

TESTING

CAREER DENDROGRAM INTRODUCTION PAGE:

STUDENT PAGE:

I.UPDATE WITHOUT INFORMATION

II.INSERT STUDENT TABLE INFORMATION

III.UPDATE STUDENT TABLE INFORMATION

IV.DELETE STUDENT TABLE INFORMATION

STUDENT DESCRIPTION PAGE:

I.UPDATE WITHOUT INFORMATION

II.INSERT STUDENT TABLE INFORMATION

III.UPDATE STUDENT DESCRIPTION TABLE INFORMATION

IV.DELETE STUDENT TABLE INFORMATION

SKILLS PAGE:

I.UPDATE WITHOUT INFORMATION

II.INSERT SKILLS TABLE INFORMATION

CAREER DENDROGRAM

III.UPDATE SKILLS TABLE INFORMATION

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IV.DELTE SKILLS TABLE INFORMATION

CAREER STATUS PAGE:

I.UPDATE WITHOUT INFORMATION

II.INSERT CAREER TABLE INFORMATION

III.UPDATE CARRER TABLE INFORMATION
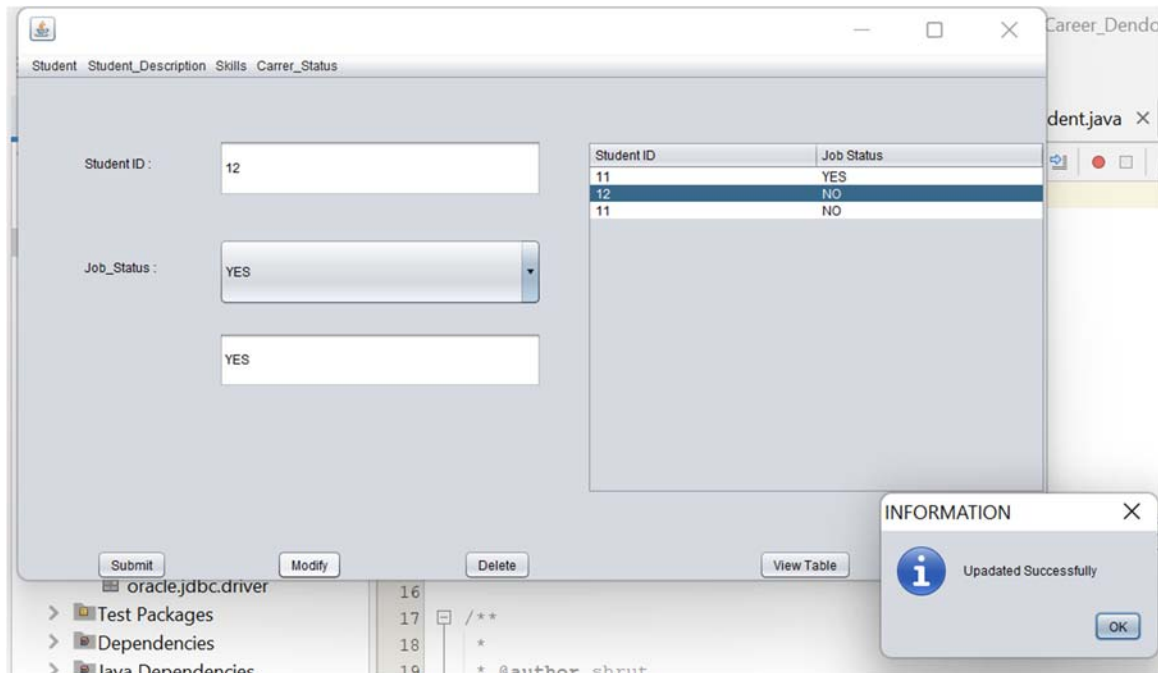
IV.DELTE SKILLS TABLE INFORMATION
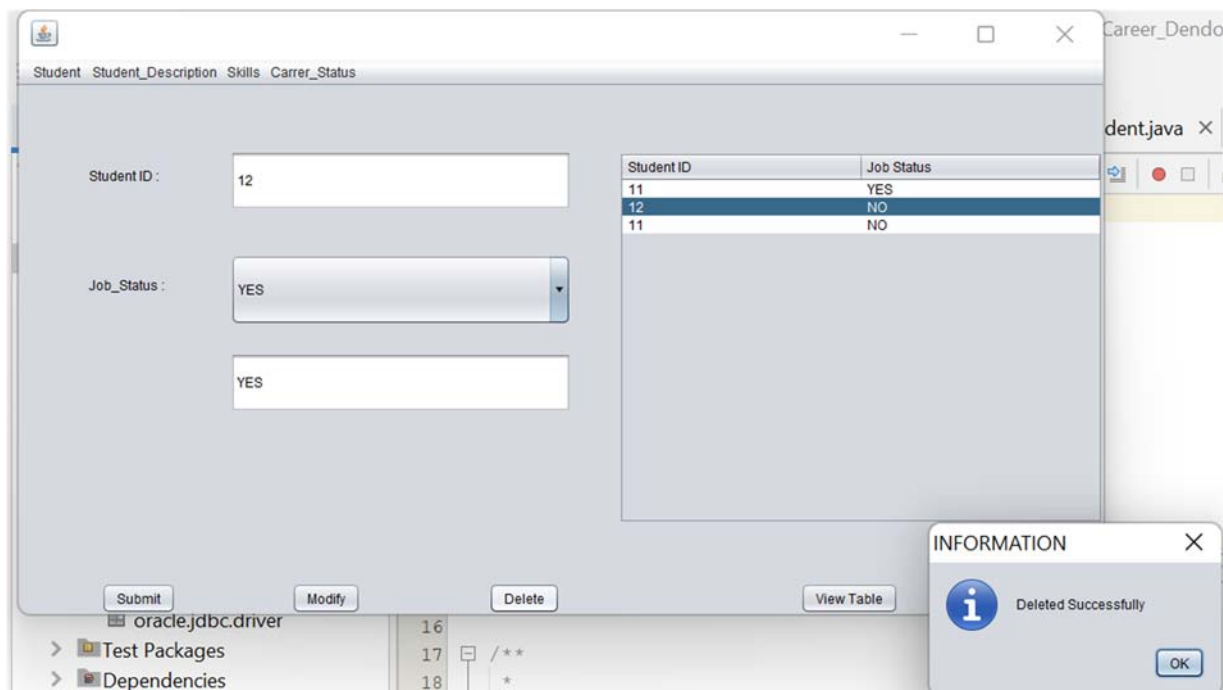
CAREER DENDROGRAM

DENDROGRAM PAGE:

I.OUTPUT PAGE

CAREER DENDROGRAM
II.LOAD THE DETAILS

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II.FULL DENDROGRAM:

RESULTS

I have successfully completed the mini-project *"CAREER DENDROGRAM"* .

DISCUSSION AND FUTURE WORK

This project contains the basic interaction of giving information by students for suggesting the correct career choice. It has a very basic user interface. Future scope would be to make the UI more appealing by using graphics. more feature would be to allow student-users to upload their resumes and official One documents required so that we can suggest more accurate career choices. We can also think of including a feedback system to allow the users to leave their valuable feedback after using this app. Making this feedback to be publicly viewable, would attract many more users to use this app.

REFERENCES

- https://docs.oracle.com/javase/7/docs/api/
- https://www.javatpoint.com/java-swing
- https://stackoverflow.com/

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