

**JAVA SWING BASED – Job Finder- SQL
CONNECTIVITY USING JDBC**

A

Report

*Submitted in partial fulfilment of the
Requirements for the award of the Degree of*

BACHELOR OF ENGINEERING

IN

INFORMATION TECHNOLOGY

By

KABIR ANIRUDH - 1602-20-737-124

GUNDA NITHIN - 1602-20-737-149



Department of Information Technology

Vasavi College of Engineering (Autonomous)

ACCREDITED BY NAAC WITH 'A++' GRADE

(Affiliated to Osmania University and Approved by AICTE)

Ibrahimbagh, Hyderabad-31

2021-2022

BONAFIDE CERTIFICATE

This is to certify that this project report titled

‘Job Finder’

is a project work of K. Anirudh bearing

roll no. 1602-20-737-124 and G. Nithin bearing roll no.

1602-20-737-149 who carried out this

project under the supervision of S. Sreelakshmi in the IV semester

for the academic year 2021- 2022

Signature

External Examiner

Signature

Internal Examiner

ABSTRACT

Job finding is a strenuous task and some people are not able to get the job they wanted this can be because of lack of information on job vacancies and on the other hand selecting a person who can fulfill the needs of particular role is also a difficult task.

To overcome the above mentioned problems to some extent we came up with the project “The Job finder”. The main aim of the project is to connect students and the other people who are looking for jobs with recruiting member of various companies. It has mainly two types of users- applicant and manager(recruiting person). The applicants fill their data such as personal details, skills they have and projects they have done then they can be able to surf through the jobs available and apply for the one in which they interested. The manager of a company can post about job vacancies and can select the applicants of the jobs based on their skill set.

We have also represented the above data collected as a graph with three types of nodes- Student, Job hopper and Manager and connected them with edges (relations) and able to provide better visualization by writing different graph queries as per the requirement.

Requirement Analysis

List of Tables:

- Applicant
- Student
- JobHoppers
- Manager
- Jobs
- Jobs_Applied

List of Attributes with their Domain Types:

Applicant

- *aid NUMBER(10)
- *aname VARCHAR2(20)
- *skills VARCHAR2(20)
- *phone_number NUMBER(10)

Students

- *aid NUMBER(10)
- *aname VARCHAR2(30)
- *skills VARCHAR2(20)
- *phone_number NUMBER(10)
- *dob DATE
- *college_name VARCHAR2(50)
- *qualification VARCHAR2(20)
- *CGPA NUMBER(10)
- *projects VARCHAR2(50)

Job_Hoppers

- *aid NUMBER(10)
- *aname VARCHAR2(30)
- *skills VARCHAR2(20)
- *phone_number NUMBER(10)
- *qualification VARCHAR2(20)

*Prvs_Jobrole VARCHAR2(20)
*Prvs_Companyname VARCHAR2(20)
*Experience NUMBER(20)

Manager

*mid NUMBER(5)
*mname VARCHAR2(30)
*company VARCHAR2(30)
*phone_number NUMBER(10)

Jobs

*jid NUMBER(5)
*jname VARCHAR2(40)
*role VARCHAR2(20)
*mid NUMBER(5)
*salary NUMBER(15)
*skills_req VARCHAR2(50)
*location VARCHAR2(20)

Jobs_Applied

*aid NUMBER(6)
*jid NUMBER(8)
*status VARCHAR2(5)

ARCHITECTURE AND TECHNOLOGY USED:

SOFTWARE USED:

Java Eclipse, Oracle 11g Database, Java SE version 8, SQL Plus.

Java SWING:

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

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:

```

public class Main
{
    try
    {
        //step1 load the driver class
        Class.forName("oracle.jdbc.driver.OracleDriver");

        //step2 create the connection object
        Connection
        con=DriverManager.getConnection("jdbc:oracle:thin:@218.248.0.7:1521:
        RDBMS","it20737124","vasavi");

        ////step3 create the statement object
        //Statement stmt=con.createStatement();

        //step4 execute query
        String query = ' '

        // create the mysql insert preparedstatement
        PreparedStatement preparedStmt =
        con.prepareStatement(query);
        preparedStmt.execute();

        //store the connection object
        con.close();

    }
    catch (SQLException connectException)
    {
        System.out.println(connectException.getMessage());
        System.out.println(connectException.getSQLState());
        System.out.println(connectException.getErrorCode());
        System.exit(1);
    }
}

```

Thus, the connection from Java to Oracle database is performed and therefore, can be used for updating tables in the database directly.

Table Created in SQL for above mentioned purpose is as:

CREATING TABLES : (DDL)

Manager Table:-

```
CREATE TABLE Manager(mid NUMBER(5),  
                      mname VARCHAR2(20),  
                      company VARCHAR2(20),  
                      phone_number NUMBER(10));
```

Jobs Table:

```
CREATE TABLE Jobs(jid NUMBER(5),  
                  jname VARCHAR2(15),  
                  role VARCHAR2(15),  
                  mid NUMBER(10),  
                  salary NUMBER(10),  
                  Skills_required VARCHAR2(30),  
                  location VARCHAR2(20));
```

Jobs_Applied table:

```
CREATE TABLE Jobs_Applied(aid NUMBER(8),  
                           jid NUMBER(5)  
                           status(Y/N) VARCHAR2(3));
```

Inheritance tables (Additional implementation):

Creating 'appli' type (base type):

```
create or replace type appli as object(aid number(5),aname varchar2(20),skills  
varchar2(30),phone_number Number(10))not final;
```

Creating 'student' type under 'appli' type:

```
create or replace type student under appli(dob DATE,college_name  
varchar2(30),qualification varchar2(10),cgpa number(5),projects varchar2(50));
```

Creating 'job hopper' type under 'appli' type:

create or replace type job_hopper under appli(qualification varchar2(20), prvs_jobrole
varchar2(20),prvs_company varchar2(20),experience number(10));

Creating ‘applicant’ table(base table) of type ‘appli’:

create table applicant of appli;

Creating ‘students’ table(Child table) of type ‘student’:

create table students of student;

Creating ‘job_hoppers’ table (Child table) of type job_hopper:

create table job_hoppers of job_hopper;

Adding necessary integrity constraints to tables:

Applicant Table:

ALTER TABLE Applicant ADD constraint pk_aid PRIMARY KEY(aid), ADD constraint
u_pno UNIQUE(phone_number);

Manager Table:

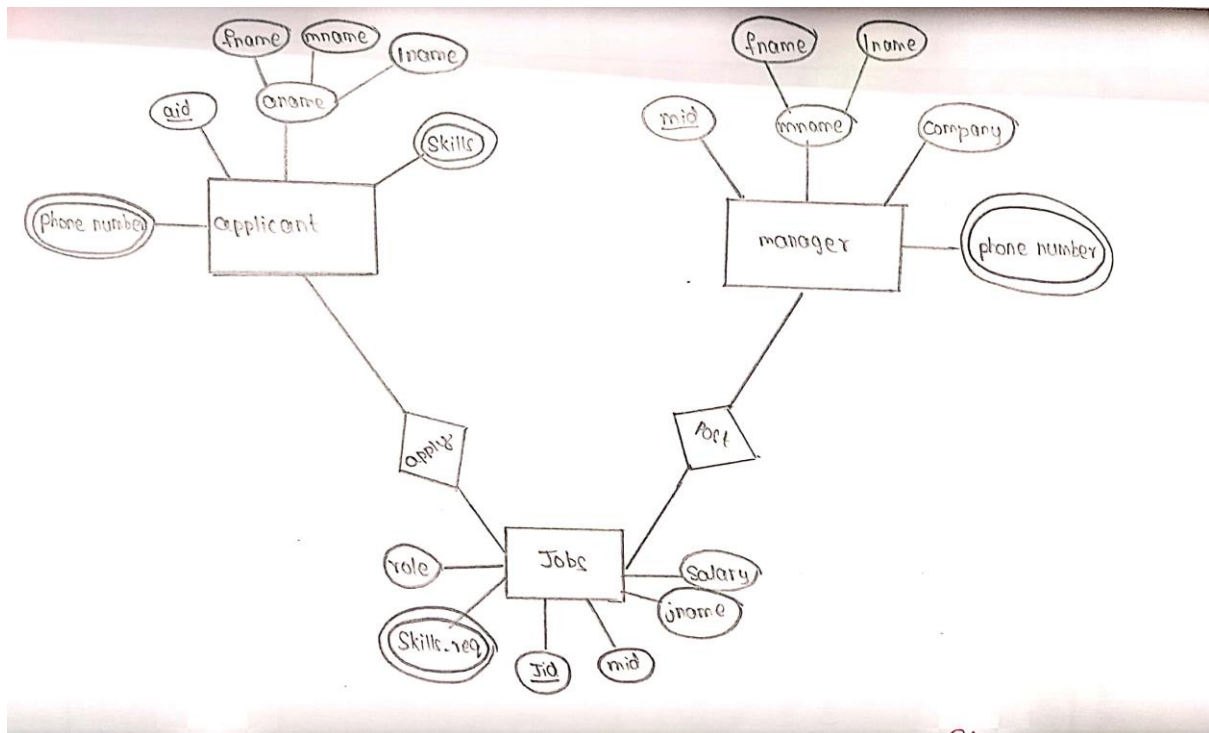
ALTER TABLE Manager ADD constraint pk_MID PRIMARY KEY(mid) ADD constraint
u_name UNIQUE(company) ADD constraint u_phno UNIQUE(phone_number);

Jobs Table:

ALTER TABLE Jobs ADD constraint pk_jid PRIMARY KEY(jid) ADD FOREIGN
KEY(mid) REFERENCES Manager;

Design

ER diagram



Database Design:

Applicant table:

SQL> desc applicant;

Name	Null?	Type

AID	NOT NULL	NUMBER(8)
ANAME		VARCHAR2(20)
SKILLS		VARCHAR2(20)
PHONE_NUMBER		NUMBER(10)

Students Table:

SQL> desc students;

Name	Null?	Type

AID		NUMBER(8)
ANAME		VARCHAR2(20)

SKILLS	VARCHAR2(20)
PHONE_NUMBER	NUMBER(10)
DOB	DATE
COLLEGE_NAME	VARCHAR2(30)
QUALIFICATION	VARCHAR2(10)
CGPA	NUMBER(5)
PROJECTS	VARCHAR2(50)

Job_hoppers Table:

Name	Null?	Type

AID		NUMBER(8)
ANAME		VARCHAR2(20)
SKILLS		VARCHAR2(20)
PHONE_NUMBER		NUMBER(10)
QUALIFICATION		VARCHAR2(10)
PRVS_JOBROLE		VARCHAR2(18)
PRVS_COMPANYNAME		VARCHAR2(20)
EXPERIENCE		NUMBER(15)

Manager Table:

SQL> desc manager;

Name	Null?	Type

MID	NOT NULL	NUMBER(5)
MNAME		VARCHAR2(20)
COMPANY		VARCHAR2(20)
PHONE_NUMBER		NUMBER(10)

Jobs table:

SQL> desc jobs;

Name	Null?	Type
------	-------	------

```

-----
JID                NOT NULL NUMBER(5)
JNAME              VARCHAR2(40)
ROLE               VARCHAR2(15)
MID                NUMBER(5)
SALARY             NUMBER(12)
SKILLS_REQ         VARCHAR2(50)
LOCATION            VARCHAR2(20)

```

Jobs_applied table:

SQL> desc jobs_applied;

```

Name                Null?   Type
-----
AID                  NUMBER(6)
JID                  NUMBER(7)
STATUS               VARCHAR2(3)

```

Implementation

UI for Login Page:

```

package my.UI;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.*;
public class Login extends javax.swing.JFrame {
    public Login() {
        initComponents();
    }
    private void initComponents() {

        buttonGroup1 = new javax.swing.ButtonGroup();
        jLabel1 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();

```

```

jRadioButton1 = new javax.swing.JRadioButton();
jRadioButton2 = new javax.swing.JRadioButton();
jPasswordField1 = new javax.swing.JPasswordField();
jButton1 = new javax.swing.JButton();
jLabel4 = new javax.swing.JLabel();
jButton2 = new javax.swing.JButton();
jPanel1 = new javax.swing.JPanel();
jLabel5 = new javax.swing.JLabel();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jLabel1.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jLabel1.setText("User id");

jTextField1.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jTextField1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField1ActionPerformed(evt);
    }
});

jLabel2.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jLabel2.setText("password");

jLabel3.setFont(new java.awt.Font("Segoe UI", 0, 19)); // NOI18N
jLabel3.setText("select user type");

buttonGroup1.add(jRadioButton1);
jRadioButton1.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jRadioButton1.setText("Applicant");
jRadioButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jRadioButton1ActionPerformed(evt);
    }
});

buttonGroup1.add(jRadioButton2);
jRadioButton2.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jRadioButton2.setText("Manager");
jRadioButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jRadioButton2ActionPerformed(evt);
    }
});

```

```

jPasswordField1.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jPasswordField1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jPasswordField1ActionPerformed(evt);
    }
});

jButton1.setFont(new java.awt.Font("Segoe UI", 0, 25)); // NOI18N
jButton1.setText("Login");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

jLabel4.setFont(new java.awt.Font("Segoe UI", 0, 18)); // NOI18N
jLabel4.setText("Didn't have an account ?");

jButton2.setFont(new java.awt.Font("Segoe UI", 0, 18)); // NOI18N
jButton2.setText("sign up");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});

jLabel5.setFont(new java.awt.Font("Segoe UI", 0, 30)); // NOI18N
jLabel5.setText("Login Page");

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addContainerGap(158, Short.MAX_VALUE)
                .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 256,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(88, 88, 88))
        );
jPanel1Layout.setVerticalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .add

```

```

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
        .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 83,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, Short.MAX_VALUE))
    );

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addGap(0, 0, Short.MAX_VALUE)
        .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 201,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(41, 41, 41)
        .addComponent(jButton2)
        .addGap(431, 431, 431))
        .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
        .addGap(131, 131, 131)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE,
140, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE,
92, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(176, 176, 176)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jTextField1,
javax.swing.GroupLayout.PREFERRED_SIZE, 238,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jPasswordField1,
javax.swing.GroupLayout.PREFERRED_SIZE, 238,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGroup(layout.createSequentialGroup()
        .addGap(135, 135, 135)
        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 136,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(55, 55, 55)

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

```

```

        .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE,
123, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGroup(layout.createSequentialGroup()
            .addComponent(jRadioButton1)
            .addGap(133, 133, 133)
            .addComponent(jRadioButton2))))
        .addGroup(layout.createSequentialGroup()
            .addGap(144, 144, 144)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addContainerGap(295, Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(101, 101, 101)

                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 58,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, 48,
javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGap(42, 42, 42)

                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 51,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jPasswordField1,
javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGap(30, 30, 30)

                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 53,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jRadioButton1)
                    .addComponent(jRadioButton2))
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 89,
Short.MAX_VALUE)
                    .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 65,
javax.swing.GroupLayout.PREFERRED_SIZE)

```



```

        .addGap(44, 44, 44)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 53,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 53,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(89, 89, 89))
    );

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

public static int uid;
private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void jRadioButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    result = this.jRadioButton1.getText();
}

private void jPasswordField1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    validate_();
}

private void jRadioButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    result = this.jRadioButton2.getText();
}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    signup_form sf=new signup_form();
    sf.setVisible(true);
    dispose();
    // TODO add your handling code here:
}

```

```

String r2;
public void validate_()
{
    String message = "";
    String userid = this.jTextField1.getText();
    String password;
    password = this.jPasswordField1.getText();
    if (userid.length() == 0) {
        message = message + "userid cannot be empty!\n";
    }
    else {
        for(char c : userid.toCharArray()) {
            if (!Character.isDigit(c)) {
                message = message + "user id cannot have alphabets or
special characters!\n";
                break;
            }
        }
    }
    if (password.length() < 8) {
        message = message + "password cannot be less than 8 charcaters!\n";
    }
    if(result.length() ==0){
        message=message+"Select any one in user type\n";
    }
    if (message.length() != 0) {
        JOptionPane.showMessageDialog(new JFrame(), message, "error",
JOptionPane.ERROR_MESSAGE);
    }
    else
    {
        //write code for searching userid into the database if it is found print login
successful and redirect to user's main menu
        //else print user id not found
        try
        {
            Class.forName("oracle.jdbc.OracleDriver");
            String uid_ = this.jTextField1.getText();
            uid = Integer.parseInt(uid_);
            //step2 create the connection object
            Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@218.248.0.7:1521:RDBMS","it20737
124","vasavi");

```

```

Statement st = con.createStatement();
int count = 0;
ResultSet rs = st.executeQuery("select count(*) from users where user_id =
"+uid);
while(rs.next())
    count+=rs.getInt(1);
if(count<1)
{
    JOptionPane.showMessageDialog(new JFrame(), "User doesn't exist! please
sign up", "error", JOptionPane.ERROR_MESSAGE);

}
else
{
    String p2 = "";
    rs = st.executeQuery("select password from users where user_id =" + uid);
    while(rs.next())
    {
        p2+=rs.getString(1);
    }
    System.out.println(p2);
    System.out.println(password);
    if(!p2.equals(password))
    {
        JOptionPane.showMessageDialog(new JFrame(), "Wrong Password\n
Reenter the password", "error", JOptionPane.ERROR_MESSAGE);
    }
    else
    {
        String type = "";

        rs = st.executeQuery("select state from users where user_id = " + uid);
        while(rs.next())
        {
            type+=rs.getString(1);
        }
        if(!result.equals(type))
        {
            JOptionPane.showMessageDialog(new JFrame(), "User doesn't exist!
please sign up", "error", JOptionPane.ERROR_MESSAGE);
        }
        else
        {

```

```

        if(result == "Manager")
        {
            Manager m = new Manager();
            m.setVisible(true);
            dispose();
        }
        else
        {
            Applicant a = new Applicant();
            a.setVisible(true);
            dispose();
        }
    }
}

}

}

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

}

}

public static void main(String args[]) {
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

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

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

```

```

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

```

```

java.util.logging.Logger.getLogger(Login.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 Login().setVisible(true);
    }
});
}
// Variables declaration - do not modify
private javax.swing.ButtonGroup buttonGroup1;
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
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.JPanel jPanel1;
private javax.swing.JPasswordField jPasswordField1;
private javax.swing.JRadioButton jRadioButton1;
private javax.swing.JRadioButton jRadioButton2;
private javax.swing.JTextField jTextField1;
// End of variables declaration
}

```

UI for Signup page:

```

package my.UI;
import javax.swing.*;
import java.sql.*;
public class signup_form extends javax.swing.JFrame {
    ApplicantType a = new ApplicantType();
    public signup_form() {
        initComponents();
        setVisible(false);
    }
}

```

```

private void initComponents() {

    buttonGroup1 = new javax.swing.ButtonGroup();
    jPanel1 = new javax.swing.JPanel();
    jLabel5 = new javax.swing.JLabel();
    jTextField2 = new javax.swing.JTextField();
    jLabel1 = new javax.swing.JLabel();
    jTextField1 = new javax.swing.JTextField();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jPasswordField1 = new javax.swing.JPasswordField();
    jLabel4 = new javax.swing.JLabel();
    jRadioButton1 = new javax.swing.JRadioButton();
    jRadioButton2 = new javax.swing.JRadioButton();
    jButton1 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jLabel5.setFont(new java.awt.Font("Segoe UI", 1, 30)); // NOI18N
    jLabel5.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
    jLabel5.setText("Signup page");

    jTextField2.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
    jTextField2.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jTextField2ActionPerformed(evt);
        }
    });

    jLabel1.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
    jLabel1.setText("User name");

    jTextField1.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
    jTextField1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jTextField1ActionPerformed(evt);
        }
    });

    jLabel2.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
    jLabel2.setText("password");

    jLabel3.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
    jLabel3.setText("confirm password");
}

```

```

jPasswordField1.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jPasswordField1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jPasswordField1ActionPerformed(evt);
    }
});

jLabel4.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jLabel4.setText("select user type");

buttonGroup1.add(jRadioButton1);
jRadioButton1.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jRadioButton1.setText("Applicant");
jRadioButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jRadioButton1ActionPerformed(evt);
    }
});

buttonGroup1.add(jRadioButton2);
jRadioButton2.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jRadioButton2.setText("Manager");
jRadioButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jRadioButton2ActionPerformed(evt);
    }
});

jButton1.setFont(new java.awt.Font("Segoe UI", 0, 22)); // NOI18N
jButton1.setText("sign up");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jPasswordField1, javax.swing.GroupLayout.DEFAULT_SIZE, 150, true)
            .addGap(10, 10, 0)
            .addComponent(jLabel4, javax.swing.GroupLayout.DEFAULT_SIZE, 150, true)
            .addGap(10, 10, 0)
            .addGroup(buttonGroup1, javax.swing.GroupLayout.DEFAULT_SIZE, 150, true)
            .addGap(10, 10, 0)
            .addComponent(jButton1, javax.swing.GroupLayout.DEFAULT_SIZE, 100, true)
            .addContainerGap(10, true))
);

```

```

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

    .addGroup(jPanel1Layout.createSequentialGroup()

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

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

                .addComponent(jLabel3,
                    javax.swing.GroupLayout.PREFERRED_SIZE, 163,
                    javax.swing.GroupLayout.PREFERRED_SIZE)

                .addComponent(jLabel1,
                    javax.swing.GroupLayout.PREFERRED_SIZE, 127,
                    javax.swing.GroupLayout.PREFERRED_SIZE)))

            .addGroup(jPanel1Layout.createSequentialGroup()

                .addGap(50, 50, 50)

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

            .addGap(48, 48, 48)

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

            .addComponent(jTextField1, javax.swing.GroupLayout.DEFAULT_SIZE,
                198, Short.MAX_VALUE)

            .addComponent(jTextField2)

            .addComponent(jPasswordField1)))

        .addGroup(jPanel1Layout.createSequentialGroup()

            .addGap(122, 122, 122)

            .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 236,
                javax.swing.GroupLayout.PREFERRED_SIZE)))

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

    .addGroup(jPanel1Layout.createSequentialGroup()

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

            .addGroup(jPanel1Layout.createSequentialGroup()

                .addGap(23, 23, 23)

                .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 175,
                    javax.swing.GroupLayout.PREFERRED_SIZE)

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

                .addComponent(jRadioButton1)

                .addGap(30, 30, 30)

```



```

        .addComponent(jRadioButton2))
        .addGroup(jPanel1Layout.createSequentialGroup())
        .addGap(193, 193, 193)
        .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE,
119, javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addContainerGap(103, Short.MAX_VALUE))
    );
    jPanel1Layout.setVerticalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup())
        .addGap(15, 15, 15)
        .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 68,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 36,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, 44,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(31, 31, 31)

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup())
        .addComponent(jPasswordField1,
javax.swing.GroupLayout.PREFERRED_SIZE, 46,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
145, Short.MAX_VALUE))
        .addGroup(jPanel1Layout.createSequentialGroup())
        .addComponent(jLabel3, javax.swing.GroupLayout.DEFAULT_SIZE, 68,
Short.MAX_VALUE)
        .addGap(26, 26, 26)

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

```

```

        .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE,
42, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jRadioButton1)
        .addComponent(jRadioButton2))
        .addGap(55, 55, 55)))
        .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 55,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap())
    );

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(0, 0, Short.MAX_VALUE))
    );

    pack();
} // </editor-fold>
String result,r2;
public static int userid;
//String state;
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    validate_();
}

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

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

```

```

private void jPasswordField1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void jRadioButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    result = this.jRadioButton1.getText();

    a.setVisible(true);

}

private void jRadioButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    result = this.jRadioButton2.getText();

}

public void validate_()
{
    String message = "";
    String username = this.jTextField1.getText();
    String password, conpassword;
    password = this.jTextField2.getText();
    conpassword=this.jPasswordField1.getText();
    if (username.length() < 5) {
        message = message + "Username must be greater than 5 characters!\n";
    }
    else {
        for(char c : username.replaceAll(" ", "").toCharArray()) {
            if (!(Character.isLetterOrDigit(c))) {
                message = message + "Username name cannot have
special characters!\n";
                break;
            }
        }
    }
    if (password.length() < 8) {
        message = message + "password cannot be less than 8 charcaters!\n";
    }
    if (conpassword.length() < 8) {

```

```

        message = message + "confirm password cannot be less than 8
charcaters!\n";
    }
    if(!password.equals(conpassword))
    {
        message=message+"Both password and confirm password doesn't match";
    }
    if(result.length() ==0){
        message=message+"Select any one in user type\n";
    }
    if (message.length() != 0) {
        JOptionPane.showMessageDialog(new JFrame(), message, "error",
JOptionPane.ERROR_MESSAGE);

    }
    else
    {
        try{
//step1 load the driver class
        Class.forName("oracle.jdbc.OracleDriver");

        //step2 create the connection object
        Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@218.248.0.7:1521:RDBMS","it20737
124","vasavi");
        String username_ = this.jTextField1.getText();
        String password_ = this.jTextField2.getText();
        Statement st = con.createStatement();
        if(result == "Manager")
        {

            userid=101;
            ResultSet rs = st.executeQuery("select count(*) from manager");
            while(rs.next())
                userid+=rs.getInt(1);
            System.out.println("userid = " +userid);
        }
        if(result=="Applicant")
        {
            r2 = a.result;
            if(r2=="Student")
            {
                userid = 1001;

```

```

        ResultSet rs = st.executeQuery("select count(*) from students");
        while(rs.next())
            userid+=rs.getInt(1);
        System.out.println("userid = " +userid);
    }
    if(r2=="Job Hopper")
    {
        userid = 5001;
        ResultSet rs = st.executeQuery("select count(*) from job_hoppers");
        while(rs.next())
            userid+=rs.getInt(1);
        System.out.println("userid = " +userid);

    }

}

String query = " insert into users (user_id,user_name,password,state)"
               + " values (?, ?, ?, ?)";

        // create the mysql insert preparedstatement
        PreparedStatement preparedStmt = con.prepareStatement(query);
        preparedStmt.setInt (1,userid);
        preparedStmt.setString (2,username_);
        preparedStmt.setString (3,password_);
        preparedStmt.setString(4,result);
System.out.println(query);
preparedStmt.execute();
        //stmt.executeQuery(query);
        System.out.println("Done");
        //userid+=1;

        //store the connection object
        con.close();
        if(result == "Manager")
        {
            ManagerUI mu= new ManagerUI();
            mu.setVisible(true);
            dispose();

        }
        else
        {
            r2 = a.result;
            if(r2=="Student")

```

```

        {
            Student s = new Student();
            s.setVisible(true);
            dispose();
        }
        else
        {
            Job_hopper j = new Job_hopper();
            j.setVisible(true);
            dispose();
        }
    }
}

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

}

}

public static void main(String args[]) {
try {
    for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
        if ("Nimbus".equals(info.getName())) {
            javax.swing.UIManager.setLookAndFeel(info.getClassName());
            break;
        }
    }
} catch (ClassNotFoundException ex) {

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

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

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

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

```

```

    }
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new signup_form().setVisible(true);
        }
    });
}

// Variables declaration - do not modify
private javax.swing.ButtonGroup buttonGroup1;
private javax.swing.JButton jButton1;
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.JPanel jPanel1;
private javax.swing.JPasswordField jPasswordField1;
private javax.swing.JRadioButton jRadioButton1;
private javax.swing.JRadioButton jRadioButton2;
private javax.swing.JTextField jTextField1;
private javax.swing.JTextField jTextField2;
// End of variables declaration
}

UI for choosing Applicant Type:
package my.UI;
public class ApplicantType extends javax.swing.JFrame {
    public ApplicantType() {
        setVisible(false);
        initComponents();
    }

    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jRadioButton1 = new javax.swing.JRadioButton();
        jRadioButton2 = new javax.swing.JRadioButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N
        jLabel1.setText("Select Applicant Type");

        jRadioButton1.setText("Student");

```



```

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

    public static String result;

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        result = this.jRadioButton1.getText();
        dispose();
    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        result = this.jRadioButton2.getText();
        dispose();
    }

    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(ApplicantType.class.getName()).log(java.util.logging.Le
            vel.SEVERE, null, ex);
    } catch (InstantiationException ex) {

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

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

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

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

```

```

        new ApplicantType().setVisible(true);
    }
});
}

// Variables declaration - do not modify
private javax.swing.JLabel jLabel1;
private javax.swing.JRadioButton jRadioButton1;
private javax.swing.JRadioButton jRadioButton2;
// End of variables declaration
}

```

User interface for Student profile:

```

package my.UI;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.text.SimpleDateFormat;
import javax.swing.JFrame;
import javax.swing.JOptionPane;
public class Student extends javax.swing.JFrame {
    public Student() {
        setVisible(false);
        initComponents();
    }

    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jLabel3 = new javax.swing.JLabel();
        jTextField2 = new javax.swing.JTextField();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        jTextField3 = new javax.swing.JTextField();
        jLabel6 = new javax.swing.JLabel();
        jTextField4 = new javax.swing.JTextField();
        jLabel7 = new javax.swing.JLabel();
        jTextField5 = new javax.swing.JTextField();
        jLabel8 = new javax.swing.JLabel();
        jTextField6 = new javax.swing.JTextField();
        jLabel9 = new javax.swing.JLabel();
        jScrollPane1 = new javax.swing.JScrollPane();

```

```

jTextArea1 = new javax.swing.JTextArea();
jLabel10 = new javax.swing.JLabel();
jScrollPane2 = new javax.swing.JScrollPane();
jTextArea2 = new javax.swing.JTextArea();
jButton1 = new javax.swing.JButton();
jDateChooser1 = new com.toedter.calendar.JDateChooser();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jLabel1.setFont(new java.awt.Font("SansSerif", 1, 20)); // NOI18N
jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel1.setText("Enter your details");

jLabel2.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jLabel2.setText("Firstname*");

jTextField1.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jTextField1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField1ActionPerformed(evt);
    }
});

jLabel3.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jLabel3.setText("Lastname");

jTextField2.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jTextField2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField2ActionPerformed(evt);
    }
});

jLabel4.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jLabel4.setText("Date of Birth*");

jLabel5.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jLabel5.setText("Phone number*");

jTextField3.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N

jLabel6.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jLabel6.setText("College Name*");

```

```

jTextField4.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N

jLabel7.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jLabel7.setText("Qualification*");

jTextField5.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N

jLabel8.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jLabel8.setText("CGPA*");

jTextField6.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N

jLabel9.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jLabel9.setText("Projects");

jTextArea1.setColumns(20);
jTextArea1.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jTextArea1.setRows(5);
jScrollPane1.setViewportView(jTextArea1);

jLabel10.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jLabel10.setText("Skills");

jTextArea2.setColumns(20);
jTextArea2.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jTextArea2.setRows(5);
jScrollPane2.setViewportView(jTextArea2);

jButton1.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jButton1.setText("Submit");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

jDateChooser1.setDateFormatString("dd-MM-yyyy");

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(100, 100, 100)

```

```

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
    .addComponent(jLabel7, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addComponent(jLabel6, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addComponent(jLabel3, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addComponent(jLabel2, javax.swing.GroupLayout.DEFAULT_SIZE, 117,
Short.MAX_VALUE)
    .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 143,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel5, javax.swing.GroupLayout.DEFAULT_SIZE, 186,
Short.MAX_VALUE))
    .addComponent(jLabel8, javax.swing.GroupLayout.PREFERRED_SIZE, 150,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel9, javax.swing.GroupLayout.PREFERRED_SIZE, 90,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel10, javax.swing.GroupLayout.PREFERRED_SIZE, 99,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
    .addComponent(jTextField1)
    .addComponent(jTextField2)
    .addComponent(jTextField3)
    .addComponent(jTextField4)
    .addComponent(jTextField5)
    .addComponent(jTextField6)
    .addComponent(jScrollPane2, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, 309, Short.MAX_VALUE)
    .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 0,
Short.MAX_VALUE)
    .addComponent(jDateChooser1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    .addGap(58, 58, 58))
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
    .addContainerGap(320, Short.MAX_VALUE)
    .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 197,
javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

        .addGap(306, 306, 306))
    .addGroup(layout.createSequentialGroup()
        .addGap(302, 302, 302)
        .addComponent(jButton1)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(20, 20, 20)
            .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 44,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(9, 9, 9)

            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 34,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)

            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 34,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)

            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                .addComponent(jLabel4)
                .addComponent(jDateChooser1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)

            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 33,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)

```

```

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel6)
    .addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel7)
    .addComponent(jTextField5, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel8)
    .addComponent(jTextField6, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGap(18, 18, 18)
        .addComponent(jLabel9))
    .addGroup(layout.createSequentialGroup()
        .addGap(7, 7, 7)
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
81, javax.swing.GroupLayout.PREFERRED_SIZE)))
.addGap(33, 33, 33)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel10)
    .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE,
78, javax.swing.GroupLayout.PREFERRED_SIZE))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
.addComponent(jButton1)
.addGap(270, 270, 270))
);

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

private void jTextField2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:

```

```

    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        validate_();
    }

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

    public void validate_()
    {
        String message = "";
        String college_name = this.jTextField4.getText(), phone =
this.jTextField3.getText();
        String fname = this.jTextField1.getText();
        String lname = this.jTextField2.getText();
        String qualification = this.jTextField5.getText();
        String cgpa = this.jTextField6.getText();

        //System.out.println(company);
        //System.out.println(phone);
        if (fname.length() == 0) {
            message = message + "First name cannot be empty!\n";
        }
        else {
            for(char c : fname.replaceAll(" ", "").toCharArray()) {
                if (!Character.isAlphabetic(c)) {
                    message = message + "First name cannot have digits or
special characters!\n";
                    break;
                }
            }
        }
        if(lname.length() != 0)
        {
            for(char c : lname.replaceAll(" ", "").toCharArray()) {
                if (!Character.isAlphabetic(c)) {
                    message = message + "Last name cannot have digits or
special characters!\n";
                    break;
                }
            }
        }
    }
}

```



```

    }
    if (college_name.length() == 0) {
        message = message + "Company name cannot be empty!\n";
    }
    else {
        for(char c : college_name.replaceAll(" ", "").toCharArray()) {
            if (!Character.isAlphabetic(c)) {
                message = message + "Company name cannot have
digits or special characters!\n";
                break;
            }
        }
    }
    if (phone.length() == 0) {
        message = message + "Phone number cannot be empty!\n";
    }
    else {
        for(char c : phone.toCharArray()) {
            if (!Character.isDigit(c)) {
                message = message + "Phone number cannot have
alphabets or special characters!\n";
                break;
            }
        }
        if (phone.length() != 10) {
            message += "Phone number must have exactly 10
digits!\n";
        }
    }
    if (qualification.length() == 0) {
        message = message + "Qualification cannot be empty!\n";
    }
    else {
        for(char c : qualification.replaceAll(".", "").toCharArray()) {
            if (!Character.isAlphabetic(c)) {
                message = message + "Qualification cannot have digits
or special characters!\n";
                break;
            }
        }
    }
    if (cgpa.length() == 0) {
        message = message + "CGPA cannot be empty!\n";
    }

```

```

        else {
            for(char c : cgpa.replaceAll(".", "").toCharArray()) {
                if (!Character.isDigit(c)) {
                    message = message + "CGPA cannot have alphabets or
special characters!\n";
                    break;
                }
            }
        }
        if (message.length() != 0) {
            JOptionPane.showMessageDialog(new JFrame(), message, "error",
JOptionPane.ERROR_MESSAGE);
        }
    }
    else
    {
        //write db,s code for data insertion
        try{
            //step1 load the driver class
            Class.forName("oracle.jdbc.driver.OracleDriver");
            Login s = new Login();
            int aid = s.uid;

            //step2 create the connection object
            Connection con=
            DriverManager.getConnection("jdbc:oracle:thin:@218.248.0.7:1521:RDBMS","it20737124",
"vasavi");
            String aname = this.jTextField1.getText();
            String ph= this.jTextField3.getText();
            String cname = this.jTextField4.getText();
            long phone2 = Long.parseLong(ph);
            String qual = this.jTextField5.getText();
            String cgpa_ = this.jTextField6.getText();
            String projects = this.jTextArea1.getText();
            String skills = this.jTextArea2.getText();
            SimpleDateFormat sdf=new SimpleDateFormat("dd-MM-yyyy");
            String date=sdf.format(jDateChooser1.getDate());

            String query = " insert into students
(aid,aname,skills,phone_number,dob,college_name,qualification,cgpa,projects)"
                + " values (?, ?, ?, ?, ?, ?, ?, ?, ?)";

            // create the mysql insert preparedstatement

```

```

        PreparedStatement preparedStmt = con.prepareStatement(query);
        preparedStmt.setInt (1,aid);
        preparedStmt.setString (2,aname);
        preparedStmt.setString (3,skills);
        preparedStmt.setLong(4,phone2);
        preparedStmt.setString(5,date);
        preparedStmt.setString (6,cname);
        preparedStmt.setString (7,qual);
        preparedStmt.setString (8,cgpa_);
        preparedStmt.setString (9,projects);

        System.out.println(query);
        preparedStmt.execute();
        //stmt.executeQuery(query);
        System.out.println("Done");

        //store the connection object
        con.close();

    }catch(Exception e){
        System.out.println(e);
    }
    //JOptionPane.showMessageDialog(new JFrame(), "Sign up is successful!");

    //write db,s code for data insertion
    signup_form s = new signup_form();
    int uid;
    uid = s.userid;
    JOptionPane.showMessageDialog(new JFrame(), "Registered
    Successfully!!\nYour user id is "+uid+"\nLogin with your userid");
    Login l = new Login();
    l.setVisible(true);
    dispose();

    }
}

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) {

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

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private com.toedter.calendar.JDateChooser jDateChooser1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel10;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JLabel jLabel8;
private javax.swing.JLabel jLabel9;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JScrollPane jScrollPane2;
private javax.swing.JTextArea jTextArea1;
private javax.swing.JTextArea jTextArea2;

```

```

private javax.swing.JTextField jTextField1;
private javax.swing.JTextField jTextField2;
private javax.swing.JTextField jTextField3;
private javax.swing.JTextField jTextField4;
private javax.swing.JTextField jTextField5;
private javax.swing.JTextField jTextField6;
// End of variables declaration
}
User interface for Job_hopper profile:
package my.UI;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import javax.swing.JFrame;
import javax.swing.JOptionPane;
public class Job_hopper extends javax.swing.JFrame {
public Job_hopper() {
    setVisible(false);
    initComponents();
}
private void initComponents() {

    jLabel7 = new javax.swing.JLabel();
    jTextField5 = new javax.swing.JTextField();
    jTextField8 = new javax.swing.JTextField();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jTextField1 = new javax.swing.JTextField();
    jLabel3 = new javax.swing.JLabel();
    jTextField2 = new javax.swing.JTextField();
    jLabel5 = new javax.swing.JLabel();
    jTextField3 = new javax.swing.JTextField();
    jLabel8 = new javax.swing.JLabel();
    jTextField6 = new javax.swing.JTextField();
    jLabel9 = new javax.swing.JLabel();
    jTextField7 = new javax.swing.JTextField();
    jLabel4 = new javax.swing.JLabel();
    jTextField4 = new javax.swing.JTextField();
    jLabel6 = new javax.swing.JLabel();
    jTextField9 = new javax.swing.JTextField();
    jLabel10 = new javax.swing.JLabel();
    jScrollPane2 = new javax.swing.JScrollPane();
    jTextArea2 = new javax.swing.JTextArea();

```

```

jButton1 = new javax.swing.JButton();

jLabel7.setFont(new java.awt.Font("Segoe UI", 0, 24)); // NOI18N
jLabel7.setText("Qualification*");

jTextField5.setFont(new java.awt.Font("Segoe UI", 0, 24)); // NOI18N

jTextField8.setFont(new java.awt.Font("Segoe UI", 0, 24)); // NOI18N

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jLabel1.setFont(new java.awt.Font("SansSerif", 1, 20)); // NOI18N
jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel1.setText("Enter your details");

jLabel2.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jLabel2.setText("Firstname*");

jTextField1.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jTextField1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField1ActionPerformed(evt);
    }
});

jLabel3.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jLabel3.setText("Lastname");

jTextField2.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jTextField2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField2ActionPerformed(evt);
    }
});

jLabel5.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jLabel5.setText("Phone number*");

jTextField3.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jTextField3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField3ActionPerformed(evt);
    }
});

```

```

jLabel8.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jLabel8.setText("Qualification*");

jTextField6.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jTextField6.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField6ActionPerformed(evt);
    }
});

jLabel9.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jLabel9.setText("Previous Company*");

jTextField7.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jTextField7.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField7ActionPerformed(evt);
    }
});

jLabel4.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jLabel4.setText("Previous Job role*");
jLabel4.setToolTipText("");

jTextField4.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jTextField4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField4ActionPerformed(evt);
    }
});

jLabel6.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jLabel6.setText("Experience (In years)*");

jTextField9.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jTextField9.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField9ActionPerformed(evt);
    }
});

jLabel10.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jLabel10.setText("Skills");

```

```

jTextArea2.setColumns(20);
jTextArea2.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jTextArea2.setRows(5);
jScrollPane2.setViewportView(jTextArea2);

jButton1.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jButton1.setText("Submit");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .add(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .add(layout.createSequentialGroup()
                    .addGap(93, 93, 93)
                )
            )
        )
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .add(layout.createSequentialGroup()
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .add(layout.createSequentialGroup()
                        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .add(layout.createSequentialGroup()
                                .addComponent(jLabel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                                .addComponent(jLabel3, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                                .addComponent(jLabel5, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                                .addGroup(layout.createSequentialGroup()
                                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                        .add(layout.createSequentialGroup()
                                            .addComponent(jLabel9,
javax.swing.GroupLayout.PREFERRED_SIZE, 216,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                            .addComponent(jLabel4,
javax.swing.GroupLayout.PREFERRED_SIZE, 201,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                            .addComponent(jLabel6,
javax.swing.GroupLayout.PREFERRED_SIZE, 243,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                            .addComponent(jLabel8,
javax.swing.GroupLayout.PREFERRED_SIZE, 253,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                        )
                                    )
                                )
                            )
                        )
                    )
                )
            )
        )
    );

```



```

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

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED))
    .addGroup(layout.createSequentialGroup())
        .addComponent(jLabel10, javax.swing.GroupLayout.PREFERRED_SIZE, 99,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(160, 160, 160)))

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jTextField9, javax.swing.GroupLayout.DEFAULT_SIZE,
340, Short.MAX_VALUE)
    .addComponent(jTextField4)
    .addComponent(jTextField7)
    .addComponent(jTextField2,
javax.swing.GroupLayout.Alignment.TRAILING)
    .addComponent(jTextField6,
javax.swing.GroupLayout.Alignment.TRAILING)
    .addComponent(jTextField1)
    .addComponent(jTextField3))
    .addGap(97, 97, 97))
    .addGroup(layout.createSequentialGroup())
        .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE,
354, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))))
    .addGroup(layout.createSequentialGroup())

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup())
        .addGap(287, 287, 287)
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 197,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGroup(layout.createSequentialGroup())
        .addGap(288, 288, 288)
        .addComponent(jButton1)))
    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup())
            .addContainerGap()

```

```

        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 78,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 34,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 34,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(23, 23, 23)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 33,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel8)
        .addComponent(jTextField6, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel9)
        .addComponent(jTextField7, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(17, 17, 17)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
        .addComponent(jLabel4)
        .addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

```

```

        .addGap(31, 31, 31)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel6)
        .addComponent(jTextField9, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, 18)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jLabel10)
        .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE,
94, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, 18)
        .addComponent(jButton1)
        .addContainerGap(27, Short.MAX_VALUE))
    );

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

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

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

private void jTextField9ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

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

private void jTextField6ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void jTextField7ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

```

```

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

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    validate_();
}

public void validate_()
{
    String message = "";
    String company_name = this(jTextField7.getText(), phone =
this(jTextField3.getText());
    String fname = this(jTextField1.getText());
    String lname = this(jTextField2.getText());
    String qualification = this(jTextField6.getText());
    String exp = this(jTextField9.getText());
    String p_job_role = this(jTextField4.getText());
    if (fname.length() == 0) {
        message = message + "First name cannot be empty!\n";
    }
    else {
        for(char c : fname.replaceAll(" ", "").toCharArray()) {
            if (!Character.isAlphabetic(c)) {
                message = message + "First name cannot have digits or
special characters!\n";
                break;
            }
        }
    }
    if(lname.length()!=0)
    {
        for(char c : lname.replaceAll(" ", "").toCharArray()) {
            if (!Character.isAlphabetic(c)) {
                message = message + "Last name cannot have digits or
special characters!\n";
                break;
            }
        }
    }
    if (company_name.length() == 0) {
        message = message + "Company name cannot be empty!\n";
    }
}

```

```

        else {
            for(char c : company_name.replaceAll(" ", "").toCharArray()) {
                if (!Character.isAlphabetic(c)) {
                    message = message + "Company name cannot have
digits or special characters!\n";
                    break;
                }
            }
        }
        if (phone.length() == 0) {
            message = message + "Phone number cannot be empty!\n";
        }
        else {
            for(char c : phone.toCharArray()) {
                if (!Character.isDigit(c)) {
                    message = message + "Phone number cannot have
alphabets or special characters!\n";
                    break;
                }
            }
            if (phone.length() != 10) {
                message += "Phone number must have exactly 10
digits!\n";
            }
        }
        System.out.println("Check1");
        if (qualification.length() == 0) {
            message = message + "Qualification cannot be empty!\n";
        }
        else {
            for(char c : qualification.replaceAll(".", "").toCharArray()) {
                if (!Character.isAlphabetic(c)) {
                    message = message + "Qualification cannot have digits
or special characters!\n";
                    break;
                }
            }
        }
        System.out.println("Check2");
        if (p_job_role.length() == 0) {
            message = message + "Job role name cannot be empty!\n";
        }
        else {

```

```

        for(char c : p_job_role.replaceAll(" ", "").toCharArray()) {
            if (!Character.isAlphabetic(c)) {
                message = message + "Job role cannot have digits or
special characters!\n";
                break;
            }
        }
    }
    if (exp.length() == 0) {
        message = message + "Experience cannot be empty!\n";
    }
    else {
        for(char c : exp.toCharArray()) {
            if (!Character.isDigit(c)) {
                message = message + "Experience cannot have
alphabets or special characters!\n";
                break;
            }
        }
    }
    if (message.length() != 0) {
        JOptionPane.showMessageDialog(new JFrame(), message, "error",
JOptionPane.ERROR_MESSAGE);

    }
    else
    {
        //write db,s code for data insertion
        try{
//step1 load the driver class
Class.forName("oracle.jdbc.driver.OracleDriver");
Login s = new Login();
int aid = s.uid;

//step2 create the connection object
Connection con=
DriverManager.getConnection("jdbc:oracle:thin:@218.248.0.7:1521:RDBMS","it20737124",
"vasavi");
String aname = this.jTextField1.getText();
String ph= this.jTextField3.getText();
String cname = this.jTextField7.getText();
String jrole = this.jTextField4.getText();
long phone2 = Long.parseLong(ph);
String qual = this.jTextField6.getText();

```

```

String exp_ = this.jTextField9.getText();
String skills = this.jTextArea2.getText();

String query = " insert into job_hoppers
(aid,aname,skills,phone_number,qualification,prvs_jobrole,prvs_companyname,experience)"
+ " values (?, ?, ?, ?, ?, ?, ?, ?)";

// create the mysql insert preparedstatement
PreparedStatement preparedStmt = con.prepareStatement(query);
preparedStmt.setInt (1,aid);
preparedStmt.setString (2,aname);
preparedStmt.setString (3,skills);
preparedStmt.setLong(4,phone2);
preparedStmt.setString (5,qual);
preparedStmt.setString (6,cname);
preparedStmt.setString (7,jrole);
preparedStmt.setString (8,exp_);

System.out.println(query);
preparedStmt.execute();
//stmt.executeQuery(query);
System.out.println("Done");

//store the connection object
con.close();

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

//JOptionPane.showMessageDialog(new JFrame(), "Sign up is successful!");

//write db,s code for data insertion
signup_form s = new signup_form();
int uid;
uid = s.userid;
JOptionPane.showMessageDialog(new JFrame(), "Regestered
Successfully!!\nYour user id is "+uid+"\nLogin with your userid");
Login l = new Login();
l.setVisible(true);
dispose();

}

```

```

    }

    public static void main(String args[]) {
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
                javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

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

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

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

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

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel10;
private javax.swing.JLabel jLabel2;

```



```

private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JLabel jLabel8;
private javax.swing.JLabel jLabel9;
private javax.swing.JScrollPane jScrollPane2;
private javax.swing.JTextArea jTextArea2;
private javax.swing.JTextField jTextField1;
private javax.swing.JTextField jTextField2;
private javax.swing.JTextField jTextField3;
private javax.swing.JTextField jTextField4;
private javax.swing.JTextField jTextField5;
private javax.swing.JTextField jTextField6;
private javax.swing.JTextField jTextField7;
private javax.swing.JTextField jTextField8;
private javax.swing.JTextField jTextField9;
// End of variables declaration
}

```

User interface for Applicant:

```

public class Applicant extends javax.swing.JFrame {
    public Applicant() {
        setVisible(false);
        initComponents();
    }
    private void initComponents() {

        jPanel2 = new javax.swing.JPanel();
        jLabel2 = new javax.swing.JLabel();
        jButton2 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();
        jButton4 = new javax.swing.JButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        jPanel2.setBackground(new java.awt.Color(116, 160, 166));
        jPanel2.setForeground(new java.awt.Color(12, 12, 12));

        jLabel2.setFont(new java.awt.Font("Segoe UI", 2, 24)); // NOI18N
        jLabel2.setText("WELCOME");

        javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);

```

```

jPanel2.setLayout(jPanel2Layout);
jPanel2Layout.setHorizontalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(291, 291, 291)
        .addComponent(jLabel2)
        .addContainerGap(317, Short.MAX_VALUE))
);
jPanel2Layout.setVerticalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(32, 32, 32)
        .addComponent(jLabel2)
        .addContainerGap(33, Short.MAX_VALUE))
);

jButton2.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jButton2.setText("Jobs Available");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});

jButton3.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jButton3.setText("Apply for job");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});

jButton4.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jButton4.setText("Jobs Applied by me");
jButton4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
    }
});

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

```

```

        .addComponent(jPanel2, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addGroup(layout.createSequentialGroup())

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(266, 266, 266)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jButton3, javax.swing.GroupLayout.PREFERRED_SIZE,
172, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE,
172, javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGroup(layout.createSequentialGroup()
            .addGap(249, 249, 249)
            .addComponent(jButton4)))
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(85, 85, 85)
            .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(43, 43, 43)
            .addComponent(jButton3)
            .addGap(41, 41, 41)
            .addComponent(jButton4)
            .addGap(0, 122, Short.MAX_VALUE))
    );

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

```

```

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    JobsApplied ja = new JobsApplied();
    ja.setVisible(true);
    dispose();
}

```

```

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    JobsAvailable ja = new JobsAvailable();
    ja.setVisible(true);
    dispose();
}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    ApplyForJob aj= new ApplyForJob();
    aj.setVisible(true);
    dispose();
}

public static void main(String args[]) {
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
        javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

        java.util.logging.Logger.getLogger(Applicant.class.getName()).log(java.util.logging.Level.S
        EVERE, null, ex);
        } catch (InstantiationException ex) {

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

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

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

    /* Create and display the form */

```

```

        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new Applicant().setVisible(true);
            }
        });
    }
}

```

```

    private javax.swing.JButton jButton2;
    private javax.swing.JButton jButton3;
    private javax.swing.JButton jButton4;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JPanel jPanel2;
    // End of variables declaration
}

```

UI for Jobs Available

```

package my.UI;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JFrame;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;

public class JobsAvailable extends javax.swing.JFrame {
    public JobsAvailable() {
        setVisible(false);
        initComponents();
    }

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

        jScrollPane1 = new javax.swing.JScrollPane();
        jTable1 = new javax.swing.JTable();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();

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

```

```

jTable1.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {

        },
        new String [] {
            "JID", "Jname", "Role", "salary", "Req_skills", "Location"
        }
    ));
jScrollPane1.setViewportView(jTable1);

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

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

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
            layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
500, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jButton1)
                .addContainerGap(18, Short.MAX_VALUE))
        .addGroup(layout.createSequentialGroup()
            .addComponent(jButton2)
            .addContainerGap(18, Short.MAX_VALUE))
);

```

```

        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addContainerGap(28, Short.MAX_VALUE)
        .addComponent(jButton1)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 307,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(78, 78, 78)
        .addComponent(jButton2)
        .addGap(63, 63, 63))
    );

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

```

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    Applicant a = new Applicant();
    a.setVisible(true);
    dispose();
}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try
    {
        Class.forName("oracle.jdbc.driver.OracleDriver");
        Connection con=
DriverManager.getConnection("jdbc:oracle:thin:@218.248.0.7:1521:RDBMS","it20737124",
"vasavi");
        //Statement stmt = con.createStatement();
        String sql = "select jid,jname,role,salary,skills_req,location from jobs";
        PreparedStatement statement = con.prepareStatement(sql);
        statement.execute();
        int rowsfound = statement.executeUpdate();
        System.out.println("Hello");
        if(rowsfound==0)
        {
            //write logic for data insertion into the database

```

```
JOptionPane.showMessageDialog(new JFrame(),"No details Found! ", "error",
JOptionPane.ERROR_MESSAGE);
```

```
    }
    else {
        Statement st=con.createStatement();
        String query="select jid,jname,role,salary,skills_req,location from jobs";
        //statement.setString(1,pname1);
        System.out.println(query);
        //PreparedStatement st = con.prepareStatement(query);
        ResultSet rs=st.executeQuery(query);
        //table.setModel(DbUtils.resultSetToTableModel(rs));
        while(rs.next())
        {
            String jid=String.valueOf(rs.getInt("jid"));
            String jname=rs.getString("jname");
            String role=rs.getString("role");
            String salary=rs.getString("salary");
            String skills = rs.getString("skills_req");
            String location = rs.getString("location");
            String tbData[]={jid,jname,role,salary,skills,location};
            DefaultTableModel tblModel=(DefaultTableModel)jTable1.getModel();
            tblModel.addRow(tbData);
        }
        System.out.println(query);
    }
    System.out.println("Done");

    //close the connection object
    con.close();

}

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

}

public static void main(String args[]) {

try {
    for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
        if ("Nimbus".equals(info.getName())) {
```



```

        javax.swing.UIManager.setLookAndFeel(info.getClassName());
        break;
    }
}
} catch (ClassNotFoundException ex) {

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

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

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

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

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable jTable1;
// End of variables declaration
}

```

Interface for Applying Job

```

package my.UI;
import java.sql.*;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;

```

```

import javax.swing.JFrame;
import javax.swing.JOptionPane;

public class ApplyForJob extends javax.swing.JFrame {

    public ApplyForJob() {
        setVisible(false);
        initComponents();
    }
    private void initComponents() {

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

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N
        jLabel1.setText("Enter the id of job you want to apply");

        jTextField1.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N

        jButton1.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
        jButton1.setText("Apply");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt); } });

        jButton2.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
        jButton2.setText("<<Back");
        jButton2.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton2ActionPerformed(evt);
            }
        });

        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
                        layout.createSequentialGroup()
                            .addContainerGap(7, Short.MAX_VALUE)
                            .addSequentialGroup(
                                layout.createSequentialGroup()
                                    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
                                        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                            .add(jButton2)
                                            .add(jButton1)
                                            .add(jTextField1)
                                            .add(jLabel1)
                                        )
                                    .addGap(10, 10, 10)
                                )
                            .addContainerGap(7, Short.MAX_VALUE)
                        )
                    .addContainerGap(7, Short.MAX_VALUE)
                )
        );
    }
}

```

```

        .addComponent(jButton2)
        .addGap(540, 540, 540))
        .addGroup(layout.createSequentialGroup())

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(200, 200, 200)
                .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
189, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGroup(layout.createSequentialGroup()
                .addGap(247, 247, 247)
                .addComponent(jButton1))
            .addGroup(layout.createSequentialGroup()
                .addGap(134, 134, 134)
                .addComponent(jLabel1)))
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(17, 17, 17)
            .addComponent(jButton2)
            .addGap(2, 2, 2)
            .addComponent(jLabel1)
            .addGap(18, 18, 18)
            .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(35, 35, 35)
            .addComponent(jButton1)
            .addContainerGap(122, Short.MAX_VALUE))
        );

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

```

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:

    String jid = this(jTextField1.getText());
    int jid_ = Integer.parseInt(jid);
    String message = "";
    if (jid.length() == 0) {

```

```

        message = message + "jid cannot be empty!\n";
    }
    else {
        for(char c : jid.toCharArray()) {
            if (!Character.isDigit(c)) {
                message = message + "jid cannot have alphabets or
special characters!\n";
                break;
            }
        }
        if (message.length() != 0) {
            JOptionPane.showMessageDialog(new JFrame(), message, "error",
JOptionPane.ERROR_MESSAGE);

        }
        //Select count(*) from jobs where jid = jid;->should return 1
        else
        {
            try{
                //step1 load the driver class
                Login l = new Login();
                int aid = l.uid;

                Class.forName("oracle.jdbc.driver.OracleDriver");
                Connection con=
DriverManager.getConnection("jdbc:oracle:thin:@218.248.0.7:1521:RDBMS", "it20737124",
"vasavi");
                Statement st = con.createStatement();
                ResultSet rs = st.executeQuery("select count(*) from jobs where jid = "+jid_);
                int count =0 ;
                while(rs.next())
                    count+=rs.getInt(1);
                if(count<1)
                    JOptionPane.showMessageDialog(new JFrame(), "Invalid Jid", "error",
JOptionPane.ERROR_MESSAGE);
                else
                {
                    //Insert into jobsapplied values
                    String query = "insert into jobsapplied (aid,jid) "+"values(?,?)";
                    PreparedStatement preparedStmt = con.prepareStatement(query);
                    preparedStmt.setInt (1,aid);
                    preparedStmt.setInt (2,jid_);

                    System.out.println(query);

```

```

        preparedStmt.execute();
        JOptionPane.showMessageDialog(new JFrame(), "Applied successfully");

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

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    Applicant a = new Applicant();
    a.setVisible(true);
    dispose();
}

public static void main(String args[]) {

    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
            javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

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

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

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

```

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

```
    }
```

```
});
```

```
}
```

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

```
private javax.swing.JButton jButton1;
```

```
private javax.swing.JButton jButton2;
```

```
private javax.swing.JLabel jLabel1;
```

```
private javax.swing.JTextField jTextField1;
```

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

```
}
```

Interface by Jobs applied

```
package my.UI;
```

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

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

```
import java.sql.PreparedStatement;
```

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

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

```
import javax.swing.JFrame;
```

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

```
import javax.swing.table.DefaultTableModel;
```

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

```
    public JobsApplied() {
```

```
        setVisible(false);
```

```
        initComponents();
```

```
        try
```

```
        {
```

```
            Login l = new Login();
```

```
            int aid = l.aid;
```

```
            Class.forName("oracle.jdbc.driver.OracleDriver");
```

```

        Connection con=
DriverManager.getConnection("jdbc:oracle:thin:@218.248.0.7:1521:RDBMS","it20737124",
"vasavi");
        //Statement stmt = con.createStatement();
        String sql = "select j.jid,jname,location,status from jobs j,jobs_applied ja where ja.aid
= "+aid+" and ja.jid = j.jid";
        PreparedStatement statement = con.prepareStatement(sql);
        statement.execute();
        int rowsfound = statement.executeUpdate();
        System.out.println("Hello");
        if(rowsfound==0)
        {
            //write logic for data insertion into the database
            JOptionPane.showMessageDialog(new JFrame(),"No details Found! ", "error",
JOptionPane.ERROR_MESSAGE);

        }
        else {
            Statement st=con.createStatement();
            String query="select j.jid,jname,location,status from jobs j,jobs_applied ja where
ja.aid = "+aid+" and ja.jid = j.jid";
            //statement.setString(1,pname1);
            System.out.println(query);
            //PreparedStatement st = con.prepareStatement(query);
            ResultSet rs=st.executeQuery(query);
            //table.setModel(DbUtils.resultSetToTableModel(rs));
            while(rs.next())
            {
                String jid=String.valueOf(rs.getInt("jid"));
                String jname=rs.getString("jname");
                String location=rs.getString("location");
                String status=rs.getString("status");

                String tbData[]={jid,jname,location,status};
                DefaultTableModel tblModel=(DefaultTableModel)jTable1.getModel();
                tblModel.addRow(tbData);
            }
            System.out.println(query);
        }
        System.out.println("Done");

        //close the connection object
        con.close();

```



```

        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup()
            .addGap(25, 25, 25)
            .addComponent(jButton1)))
        .addContainerGap(108, Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(18, 18, 18)
                .addComponent(jButton1)
                .addGap(37, 37, 37)
                .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 286,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(109, Short.MAX_VALUE))
            );

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

```

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    Applicant a = new Applicant();
    a.setVisible(true);
    dispose();
}
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(JobsApplied.class.getName()).log(java.util.logging.Level
.SEVERE, null, ex);
    } catch (InstantiationException ex) {

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

```

```

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

```

```

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

```

```

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable jTable1;
// End of variables declaration
}

```

Interface for Manager profile

```

import java.sql.*;
import javax.swing.*;

```

```

public class ManagerUI extends javax.swing.JFrame {

```

```

    public ManagerUI() {
        setVisible(false);
        initComponents();
    }

```

```

/**

```

```

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

```

```

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

```

```

jLabel1 = new javax.swing.JLabel();
jLabel3 = new javax.swing.JLabel();
jLabel4 = new javax.swing.JLabel();
jLabel5 = new javax.swing.JLabel();
jLabel6 = new javax.swing.JLabel();
jButton1 = new javax.swing.JButton();
jTextField2 = new javax.swing.JTextField();
jTextField3 = new javax.swing.JTextField();
jTextField4 = new javax.swing.JTextField();
jTextField5 = new javax.swing.JTextField();
jLabel7 = new javax.swing.JLabel();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jLabel1.setFont(new java.awt.Font("SansSerif", 1, 20)); // NOI18N
jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel1.setText("Enter your details");

jLabel3.setFont(new java.awt.Font("Segoe UI", 0, 24)); // NOI18N
jLabel3.setText("Firstname*");

jLabel4.setFont(new java.awt.Font("Segoe UI", 0, 24)); // NOI18N
jLabel4.setText("Lastname");

jLabel5.setFont(new java.awt.Font("Segoe UI", 0, 24)); // NOI18N
jLabel5.setText("Company*");

jLabel6.setFont(new java.awt.Font("Segoe UI", 0, 24)); // NOI18N
jLabel6.setText("Phone Number*");

jButton1.setFont(new java.awt.Font("Segoe UI", 0, 21)); // NOI18N
jButton1.setText("submit");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

jTextField2.setFont(new java.awt.Font("Segoe UI", 0, 24)); // NOI18N
jTextField2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField2ActionPerformed(evt);
    }
});

```



```

        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 197,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(117, 117, 117)))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup())

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jTextField5,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 147,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
        .addComponent(jTextField2,
javax.swing.GroupLayout.DEFAULT_SIZE, 147, Short.MAX_VALUE)
        .addComponent(jTextField3)
        .addComponent(jTextField4)))
        .addGap(62, 62, 62))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addComponent(jLabel7)
        .addGap(204, 204, 204))))
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(107, 107, 107)
            .addComponent(jLabel7)
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
        .addGroup(layout.createSequentialGroup()
            .addGap(59, 59, 59)
            .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 78,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(45, 45, 45)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel3))

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

```

```

        .addGroup(layout.createSequentialGroup())
        .addGap(54, 54, 54)
        .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup())
        .addGap(40, 40, 40)
        .addComponent(jLabel4)))
        .addGap(44, 44, 44)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel5)
        .addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(54, 54, 54)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jTextField5, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel6))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 41,
Short.MAX_VALUE)
        .addComponent(jButton1)
        .addGap(202, 202, 202))
    );

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

public int mid;
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    validate_();
    try{
        //step1 load the driver class
        Class.forName("oracle.jdbc.driver.OracleDriver");
        signup_form s = new signup_form();
        mid = s.userid;

        //step2 create the connection object
        Connection con=
        DriverManager.getConnection("jdbc:oracle:thin:@218.248.0.7:1521:RDBMS","it20737124",
"vasavi");

```

```

String mname = this.jTextField2.getText();
String ph= this.jTextField5.getText();
String company = this.jTextField4.getText();
long phone = Long.parseLong(ph);

////step3 create the statement object
//Statement stmt=con.createStatement();
//step4 execute query
String query = " insert into manager (mid,mname,company,phone_number)"
               + " values (?, ?, ?, ?)";

        // create the mysql insert preparedstatement
        PreparedStatement preparedStmt = con.prepareStatement(query);
        preparedStmt.setInt (1,mid);
        preparedStmt.setString (2,mname);
        preparedStmt.setString (3,company);
        preparedStmt.setLong(4,phone);
System.out.println(query);
preparedStmt.execute();
//stmt.executeQuery(query);
System.out.println("Done");

//store the connection object
con.close();

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

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

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

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

```

```

public void validate_()
{
    String message = "";
    String company = this.jTextField4.getText(), phone =
this.jTextField5.getText();
    String fname = this.jTextField2.getText();
    String lname = this.jTextField3.getText();

    //System.out.println(company);
    //System.out.println(phone);
    if (fname.length() == 0) {
        message = message + "First name cannot be empty!\n";
    }
    else {
        for(char c : fname.replaceAll(" ", "").toCharArray()) {
            if (!Character.isAlphabetic(c)) {
                message = message + "First name cannot have digits or
special characters!\n";
                break;
            }
        }
    }
    if(lname.length() != 0)
    {
        for(char c : lname.replaceAll(" ", "").toCharArray()) {
            if (!Character.isAlphabetic(c)) {
                message = message + "Last name cannot have digits or
special characters!\n";
                break;
            }
        }
    }
    if (company.length() == 0) {
        message = message + "Company name cannot be empty!\n";
    }
    else {
        for(char c : company.replaceAll(" ", "").toCharArray()) {
            if (!Character.isAlphabetic(c)) {
                message = message + "Company name cannot have
digits or special characters!\n";
                break;
            }
        }
    }
}

```



```

        if (phone.length() == 0) {
            message = message + "Phone number cannot be empty!\n";
        }
        else {
            for(char c : phone.toCharArray()) {
                if (!Character.isDigit(c)) {
                    message = message + "Phone number cannot have
alphabets or special characters!\n";
                    break;
                }
            }
            if (phone.length() != 10) {
                message += "Phone number must have exactly 10
digits!\n";
            }
        }
        if (message.length() != 0) {
            JOptionPane.showMessageDialog(new JFrame(), message, "error",
JOptionPane.ERROR_MESSAGE);
        }
        else
        {
            //write db,s code for data insertion
            signup_form s = new signup_form();
            int uid;
            uid = s.userid;
            JOptionPane.showMessageDialog(new JFrame(), "Regestered
Successfully!!\nYour user id is "+uid+"\nLogin with your userid");
            Login l = new Login();
            l.setVisible(true);
            dispose();
        }
    }

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

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

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

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

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;

```

```

private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JTextField jTextField2;
private javax.swing.JTextField jTextField3;
private javax.swing.JTextField jTextField4;
private javax.swing.JTextField jTextField5;
// End of variables declaration
}

```

User Interface for Manager:

```

package my.UI;
public class Manager extends javax.swing.JFrame {
    public Manager() {
        setVisible(false);
        initComponents();
    }
    private void initComponents() {

        jPanel1 = new javax.swing.JPanel();
        jPanel2 = new javax.swing.JPanel();
        jLabel2 = new javax.swing.JLabel();
        jPanel3 = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
        jButton2 = new javax.swing.JButton();
        jButton4 = new javax.swing.JButton();
        jButton5 = new javax.swing.JButton();
        jButton1 = new javax.swing.JButton();

        javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
        jPanel1.setLayout(jPanel1Layout);
        jPanel1Layout.setHorizontalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGap(0, 100, Short.MAX_VALUE)
        );
        jPanel1Layout.setVerticalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGap(0, 100, Short.MAX_VALUE)
        );

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        jPanel2.setBackground(new java.awt.Color(116, 160, 166));
        jPanel2.setForeground(new java.awt.Color(12, 12, 12));
        jLabel2.setFont(new java.awt.Font("Segoe UI", 2, 24)); // NOI18N
        jLabel2.setText("WELCOME");
    }
}

```

```

javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
    jPanel2.setLayout(jPanel2Layout);
    jPanel2Layout.setHorizontalGroup(
        jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(291, 291, 291)
                .addComponent(jLabel2)
                .addGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
    );
    jPanel2Layout.setVerticalGroup(
        jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(32, 32, 32)
                .addComponent(jLabel2)
                .addGap(33, Short.MAX_VALUE))
    );

    jButton2.setFont(new java.awt.Font("Segoe UI", 0, 22)); // NOI18N
    jButton2.setText("Post new Jobs");
    jButton2.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton2ActionPerformed(evt);
        }
    });

    jButton4.setFont(new java.awt.Font("Segoe UI", 0, 22)); // NOI18N
    jButton4.setText("Job requests available");
    jButton4.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton4ActionPerformed(evt);
        }
    });

    jButton5.setFont(new java.awt.Font("Segoe UI", 0, 22)); // NOI18N
    jButton5.setText("Delete Jobs posted");
    jButton5.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton5ActionPerformed(evt);
        }
    });

    jButton1.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
    jButton1.setText("Accept requests available");

```

```
jButton1.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton1ActionPerformed(evt);  
    }  
});  
  
javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);  
jPanel3.setLayout(jPanel3Layout);  
jPanel3Layout.setHorizontalGroup(  
    jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(jPanel3Layout.createSequentialGroup()  
            .addGap(253, 253, 253)  
            .addComponent(jButton2)  
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,  
Short.MAX_VALUE))  
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,  
jPanel3Layout.createSequentialGroup()  
            .addContainerGap(237, Short.MAX_VALUE)  
  
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
NG)  
            .addComponent(jButton1)  
  
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
NG)  
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,  
jPanel3Layout.createSequentialGroup()  
  
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
NG)  
                .addComponent(jButton5)  
                .addComponent(jLabel1))  
            .addGap(221, 221, 221))  
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,  
jPanel3Layout.createSequentialGroup()  
            .addComponent(jButton4)  
            .addGap(202, 202, 202))))))  
);  
jPanel3Layout.setVerticalGroup(  
    jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(jPanel3Layout.createSequentialGroup()  
            .addGap(80, 80, 80)  
            .addComponent(jButton2)  
            .addGap(32, 32, 32)  
            .addComponent(jButton5)
```

```

        .addGap(31, 31, 31)
        .addComponent(jLabel1)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(jButton4)
        .addGap(32, 32, 32)
        .addComponent(jButton1)
        .addContainerGap(44, Short.MAX_VALUE)
    );

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jPanel3, javax.swing.GroupLayout.Alignment.TRAILING,
                javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
                Short.MAX_VALUE)
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
                    javax.swing.GroupLayout.DEFAULT_SIZE,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jPanel3, javax.swing.GroupLayout.DEFAULT_SIZE,
                    javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addContainerGap())
    );

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

```

```

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    JobRequests_j = new JobRequests_();
    j.setVisible(true);
    dispose();
}

```

```

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

```

```

        dispose();
    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        NewJobs nj = new NewJobs();
        nj.setVisible(true);
        dispose();
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        AcceptsRequests a = new AcceptsRequests();
        a.setVisible(true);
        dispose();
    }

    public static void main(String args[]) {
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
                javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

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

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

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

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

    // Variables declaration - do not modify
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JButton jButton4;
    private javax.swing.JButton jButton5;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JPanel jPanel3;
    // End of variables declaration
}

```

User Interface for posting new jobs Manager

```
package my.UI;
```

```

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.text.SimpleDateFormat;
import javax.swing.JFrame;
import javax.swing.JOptionPane;
public class NewJobs extends javax.swing.JFrame {
    public NewJobs() {
        setVisible(false);
        initComponents();
    }
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jLabel2 = new javax.swing.JLabel();
        jTextField2 = new javax.swing.JTextField();
        jLabel3 = new javax.swing.JLabel();
        jTextField3 = new javax.swing.JTextField();
        jLabel4 = new javax.swing.JLabel();
        jTextField4 = new javax.swing.JTextField();

```



```

jLabel5 = new javax.swing.JLabel();
jScrollPane1 = new javax.swing.JScrollPane();
jTextArea1 = new javax.swing.JTextArea();
jButton1 = new javax.swing.JButton();
jButton2 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jLabel1.setFont(new java.awt.Font("Segoe UI", 0, 24)); // NOI18N
jLabel1.setText("Job ID");

jTextField1.setFont(new java.awt.Font("Segoe UI", 0, 24)); // NOI18N
jTextField1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField1ActionPerformed(evt);
    }
});

jLabel2.setFont(new java.awt.Font("Segoe UI", 0, 24)); // NOI18N
jLabel2.setText("Job role");

jTextField2.setFont(new java.awt.Font("Segoe UI", 0, 24)); // NOI18N

jLabel3.setFont(new java.awt.Font("Segoe UI", 0, 24)); // NOI18N
jLabel3.setText("Salary");

jTextField3.setFont(new java.awt.Font("Segoe UI", 0, 24)); // NOI18N

jLabel4.setFont(new java.awt.Font("Segoe UI", 0, 24)); // NOI18N
jLabel4.setText("Location");

jTextField4.setFont(new java.awt.Font("Segoe UI", 0, 24)); // NOI18N

jLabel5.setFont(new java.awt.Font("Segoe UI", 0, 24)); // NOI18N
jLabel5.setText("Skills Required");

jTextArea1.setColumns(20);
jTextArea1.setFont(new java.awt.Font("Segoe UI", 0, 20)); // NOI18N
jTextArea1.setRows(5);
jScrollPane1.setViewportView(jTextArea1);

jButton1.setText("Add job");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {

```

```

        jButton1ActionPerformed(evt);
    }
});

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

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .add(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .add(layout.createSequentialGroup()
                    .addGap(53, 53, 53)
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                        .add(layout.createSequentialGroup()
                            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                .add(layout.createSequentialGroup()
                                    .addComponent(jLabel1)
                                    .addComponent(jLabel2)
                                    .addComponent(jLabel3)
                                    .addComponent(jLabel4)
                                    .addComponent(jLabel5))
                                .add(layout.createSequentialGroup()
                                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                        .add(jButton2)
                                        .addGap(71, 71, 71)))
                                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 154, Short.MAX_VALUE)
                                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                        .add(layout.createSequentialGroup()
                                            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                                                .add(layout.createSequentialGroup()
                                                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                                                        .add(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                                            .add(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                                                            .addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED_SIZE, 172, javax.swing.GroupLayout.PREFERRED_SIZE)
                                                        .addGap(100, 100, 100))
                                                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                                        .add(jButton1)
                                                        .add(jButton2)
                                                        .add(jButton3)
                                                        .add(jButton4)
                                                        .add(jButton5)
                                                        .add(jButton6)
                                                        .add(jButton7)
                                                        .add(jButton8)
                                                        .add(jButton9)
                                                        .add(jButton10)
                                                        .add(jButton11)
                                                        .add(jButton12)
                                                        .add(jButton13)
                                                        .add(jButton14)
                                                        .add(jButton15)
                                                        .add(jButton16)
                                                        .add(jButton17)
                                                        .add(jButton18)
                                                        .add(jButton19)
                                                        .add(jButton20)
                                                        .add(jButton21)
                                                        .add(jButton22)
                                                        .add(jButton23)
                                                        .add(jButton24)
                                                        .add(jButton25)
                                                        .add(jButton26)
                                                        .add(jButton27)
                                                        .add(jButton28)
                                                        .add(jButton29)
                                                        .add(jButton30)
                                                        .add(jButton31)
                                                        .add(jButton32)
                                                        .add(jButton33)
                                                        .add(jButton34)
                                                        .add(jButton35)
                                                        .add(jButton36)
                                                        .add(jButton37)
                                                        .add(jButton38)
                                                        .add(jButton39)
                                                        .add(jButton40)
                                                        .add(jButton41)
                                                        .add(jButton42)
                                                        .add(jButton43)
                                                        .add(jButton44)
                                                        .add(jButton45)
                                                        .add(jButton46)
                                                        .add(jButton47)
                                                        .add(jButton48)
                                                        .add(jButton49)
                                                        .add(jButton50)
                                                        .add(jButton51)
                                                        .add(jButton52)
                                                        .add(jButton53)
                                                        .add(jButton54)
                                                        .add(jButton55)
                                                        .add(jButton56)
                                                        .add(jButton57)
                                                        .add(jButton58)
                                                        .add(jButton59)
                                                        .add(jButton60)
                                                        .add(jButton61)
                                                        .add(jButton62)
                                                        .add(jButton63)
                                                        .add(jButton64)
                                                        .add(jButton65)
                                                        .add(jButton66)
                                                        .add(jButton67)
                                                        .add(jButton68)
                                                        .add(jButton69)
                                                        .add(jButton70)
                                                        .add(jButton71)
                                                        .add(jButton72)
                                                        .add(jButton73)
                                                        .add(jButton74)
                                                        .add(jButton75)
                                                        .add(jButton76)
                                                        .add(jButton77)
                                                        .add(jButton78)
                                                        .add(jButton79)
                                                        .add(jButton80)
                                                        .add(jButton81)
                                                        .add(jButton82)
                                                        .add(jButton83)
                                                        .add(jButton84)
                                                        .add(jButton85)
                                                        .add(jButton86)
                                                        .add(jButton87)
                                                        .add(jButton88)
                                                        .add(jButton89)
                                                        .add(jButton90)
                                                        .add(jButton91)
                                                        .add(jButton92)
                                                        .add(jButton93)
                                                        .add(jButton94)
                                                        .add(jButton95)
                                                        .add(jButton96)
                                                        .add(jButton97)
                                                        .add(jButton98)
                                                        .add(jButton99)
                                                        .add(jButton100)
                                                        .add(jButton101)
                                                        .add(jButton102)
                                                        .add(jButton103)
                                                        .add(jButton104)
                                                        .add(jButton105)
                                                        .add(jButton106)
                                                        .add(jButton107)
                                                        .add(jButton108)
                                                        .add(jButton109)
                                                        .add(jButton110)
                                                        .add(jButton111)
                                                        .add(jButton112)
                                                        .add(jButton113)
                                                        .add(jButton114)
                                                        .add(jButton115)
                                                        .add(jButton116)
                                                        .add(jButton117)
                                                        .add(jButton118)
                                                        .add(jButton119)
                                                        .add(jButton120)
                                                        .add(jButton121)
                                                        .add(jButton122)
                                                        .add(jButton123)
                                                        .add(jButton124)
                                                        .add(jButton125)
                                                        .add(jButton126)
                                                        .add(jButton127)
                                                        .add(jButton128)
                                                        .add(jButton129)
                                                        .add(jButton130)
                                                        .add(jButton131)
                                                        .add(jButton132)
                                                        .add(jButton133)
                                                        .add(jButton134)
                                                        .add(jButton135)
                                                        .add(jButton136)
                                                        .add(jButton137)
                                                        .add(jButton138)
                                                        .add(jButton139)
                                                        .add(jButton140)
                                                        .add(jButton141)
                                                        .add(jButton142)
                                                        .add(jButton143)
                                                        .add(jButton144)
                                                        .add(jButton145)
                                                        .add(jButton146)
                                                        .add(jButton147)
                                                        .add(jButton148)
                                                        .add(jButton149)
                                                        .add(jButton150)
                                                        .add(jButton151)
                                                        .add(jButton152)
                                                        .add(jButton153)
                                                        .add(jButton154)
                                                        .add(jButton155)
                                                        .add(jButton156)
                                                        .add(jButton157)
                                                        .add(jButton158)
                                                        .add(jButton159)
                                                        .add(jButton160)
                                                        .add(jButton161)
                                                        .add(jButton162)
                                                        .add(jButton163)
                                                        .add(jButton164)
                                                        .add(jButton165)
                                                        .add(jButton166)
                                                        .add(jButton167)
                                                        .add(jButton168)
                                                        .add(jButton169)
                                                        .add(jButton170)
                                                        .add(jButton171)
                                                        .add(jButton172)
                                                        .add(jButton173)
                                                        .add(jButton174)
                                                        .add(jButton175)
                                                        .add(jButton176)
                                                        .add(jButton177)
                                                        .add(jButton178)
                                                        .add(jButton179)
                                                        .add(jButton180)
                                                        .add(jButton181)
                                                        .add(jButton182)
                                                        .add(jButton183)
                                                        .add(jButton184)
                                                        .add(jButton185)
                                                        .add(jButton186)
                                                        .add(jButton187)
                                                        .add(jButton188)
                                                        .add(jButton189)
                                                        .add(jButton190)
                                                        .add(jButton191)
                                                        .add(jButton192)
                                                        .add(jButton193)
                                                        .add(jButton194)
                                                        .add(jButton195)
                                                        .add(jButton196)
                                                        .add(jButton197)
                                                        .add(jButton198)
                                                        .add(jButton199)
                                                        .add(jButton200)
                                                        .add(jButton201)
                                                        .add(jButton202)
                                                        .add(jButton203)
                                                        .add(jButton204)
                                                        .add(jButton205)
                                                        .add(jButton206)
                                                        .add(jButton207)
                                                        .add(jButton208)
                                                        .add(jButton209)
                                                        .add(jButton210)
                                                        .add(jButton211)
                                                        .add(jButton212)
                                                        .add(jButton213)
                                                        .add(jButton214)
                                                        .add(jButton215)
                                                        .add(jButton216)
                                                        .add(jButton217)
                                                        .add(jButton218)
                                                        .add(jButton219)
                                                        .add(jButton220)
                                                        .add(jButton221)
                                                        .add(jButton222)
                                                        .add(jButton223)
                                                        .add(jButton224)
                                                        .add(jButton225)
                                                        .add(jButton226)
                                                        .add(jButton227)
                                                        .add(jButton228)
                                                        .add(jButton229)
                                                        .add(jButton230)
                                                        .add(jButton231)
                                                        .add(jButton232)
                                                        .add(jButton233)
                                                        .add(jButton234)
                                                        .add(jButton235)
                                                        .add(jButton236)
                                                        .add(jButton237)
                                                        .add(jButton238)
                                                        .add(jButton239)
                                                        .add(jButton240)
                                                        .add(jButton241)
                                                        .add(jButton242)
                                                        .add(jButton243)
                                                        .add(jButton244)
                                                        .add(jButton245)
                                                        .add(jButton246)
                                                        .add(jButton247)
                                                        .add(jButton248)
                                                        .add(jButton249)
                                                        .add(jButton250)
                                                        .add(jButton251)
                                                        .add(jButton252)
                                                        .add(jButton253)
                                                        .add(jButton254)
                                                        .add(jButton255)
                                                        .add(jButton256)
                                                        .add(jButton257)
                                                        .add(jButton258)
                                                        .add(jButton259)
                                                        .add(jButton260)
                                                        .add(jButton261)
                                                        .add(jButton262)
                                                        .add(jButton263)
                                                        .add(jButton264)
                                                        .add(jButton265)
                                                        .add(jButton266)
                                                        .add(jButton267)
                                                        .add(jButton268)
                                                        .add(jButton269)
                                                        .add(jButton270)
                                                        .add(jButton271)
                                                        .add(jButton272)
                                                        .add(jButton273)
                                                        .add(jButton274)
                                                        .add(jButton275)
                                                        .add(jButton276)
                                                        .add(jButton277)
                                                        .add(jButton278)
                                                        .add(jButton279)
                                                        .add(jButton280)
                                                        .add(jButton281)
                                                        .add(jButton282)
                                                        .add(jButton283)
                                                        .add(jButton284)
                                                        .add(jButton285)
                                                        .add(jButton286)
                                                        .add(jButton287)
                                                        .add(jButton288)
                                                        .add(jButton289)
                                                        .add(jButton290)
                                                        .add(jButton291)
                                                        .add(jButton292)
                                                        .add(jButton293)
                                                        .add(jButton294)
                                                        .add(jButton295)
                                                        .add(jButton296)
                                                        .add(jButton297)
                                                        .add(jButton298)
                                                        .add(jButton299)
                                                        .add(jButton300)
                                                        .add(jButton301)
                                                        .add(jButton302)
                                                        .add(jButton303)
                                                        .add(jButton304)
                                                        .add(jButton305)
                                                        .add(jButton306)
                                                        .add(jButton307)
                                                        .add(jButton308)
                                                        .add(jButton309)
                                                        .add(jButton310)
                                                        .add(jButton311)
                                                        .add(jButton312)
                                                        .add(jButton313)
                                                        .add(jButton314)
                                                        .add(jButton315)
                                                        .add(jButton316)
                                                        .add(jButton317)
                                                        .add(jButton318)
                                                        .add(jButton319)
                                                        .add(jButton320)
                                                        .add(jButton321)
                                                        .add(jButton322)
                                                        .add(jButton323)
                                                        .add(jButton324)
                                                        .add(jButton325)
                                                        .add(jButton326)
                                                        .add(jButton327)
                                                        .add(jButton328)
                                                        .add(jButton329)
                                                        .add(jButton330)
                                                        .add(jButton331)
                                                        .add(jButton332)
                                                        .add(jButton333)
                                                        .add(jButton334)
                                                        .add(jButton335)
                                                        .add(jButton336)
                                                        .add(jButton337)
                                                        .add(jButton338)
                                                        .add(jButton339)
                                                        .add(jButton340)
                                                        .add(jButton341)
                                                        .add(jButton342)
                                                        .add(jButton343)
                                                        .add(jButton344)
                                                        .add(jButton345)
                                                        .add(jButton346)
                                                        .add(jButton347)
                                                        .add(jButton348)
                                                        .add(jButton349)
                                                        .add(jButton350)
                                                        .add(jButton351)
                                                        .add(jButton352)
                                                        .add(jButton353)
                                                        .add(jButton354)
                                                        .add(jButton355)
                                                        .add(jButton356)
                                                        .add(jButton357)
                                                        .add(jButton358)
                                                        .add(jButton359)
                                                        .add(jButton360)
                                                        .add(jButton361)
                                                        .add(jButton362)
                                                        .add(jButton363)
                                                        .add(jButton364)
                                                        .add(jButton365)
                                                        .add(jButton366)
                                                        .add(jButton367)
                                                        .add(jButton368)
                                                        .add(jButton369)
                                                        .add(jButton370)
                                                        .add(jButton371)
                                                        .add(jButton372)
                                                        .add(jButton373)
                                                        .add(jButton374)
                                                        .add(jButton375)
                                                        .add(jButton376)
                                                        .add
```

```

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addComponent(jTextField1,
javax.swing.GroupLayout.PREFERRED_SIZE, 182,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(90, 90, 90))
        .addGroup(layout.createSequentialGroup())

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jTextField2,
javax.swing.GroupLayout.PREFERRED_SIZE, 172,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jTextField3,
javax.swing.GroupLayout.PREFERRED_SIZE, 172,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addContainerGap()))))
    .addGroup(layout.createSequentialGroup()
        .addGap(280, 280, 280)
        .addComponent(jButton1)
        .addGap(0, 0, Short.MAX_VALUE))
    );
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGap(24, 24, 24)
        .addComponent(jButton2)
        .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
        .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel1))
        .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jLabel2)
        .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, 18)

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

```

```

        .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel3))
        .addGap(23, 23, 23)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
        .addComponent(jLabel4)
        .addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(37, 37, 37)
            .addComponent(jLabel5))
        .addGroup(layout.createSequentialGroup()
            .addGap(18, 18, 18)
            .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 102,
Short.MAX_VALUE)
        .addComponent(jButton1)
        .addGap(32, 32, 32))
    );

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

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    validate2();
}

private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    Manager m = new Manager();
    m.setVisible(true);
    dispose();
}

```

```

    }
    public void validate2()
    {
        String message = "";
        String ID = this.jTextField1.getText();
        String role = this.jTextField2.getText(), salary = this.jTextField3.getText();
        String location = this.jTextField4.getText();

        if (role.length() == 0) {
            message = message + "Job role cannot be empty!\n";
        }
        else {
            for(char c : role.replaceAll(" ", "").toCharArray()) {
                if (!Character.isAlphabetic(c)) {
                    message = message + "Job role cannot have digits or
special characters!\n";
                    break;
                }
            }
        }
        if (location.length() == 0) {
            message = message + "Location cannot be empty!\n";
        }
        else {
            for(char c : location.replaceAll(" ", "").toCharArray()) {
                if (!Character.isAlphabetic(c)) {
                    message = message + "location cannot have digits or
special characters!\n";
                    break;
                }
            }
        }
        if (salary.length() == 0) {
            message = message + "Salary cannot be empty!\n";
        }
        else {
            for(char c : salary.toCharArray()) {
                if (!Character.isDigit(c)) {
                    message = message + "Salary cannot have alphabets or
special characters!\n";
                    break;
                }
            }
        }
    }
}

```

```

    }
    if (message.length() != 0) {
        JOptionPane.showMessageDialog(new JFrame(), message, "error",
JOptionPane.ERROR_MESSAGE);

    }
    else
    {
        try{
//step1 load the driver class
Class.forName("oracle.jdbc.driver.OracleDriver");
Login s = new Login();
    int mid = s.uid;

Connection con=
DriverManager.getConnection("jdbc:oracle:thin:@218.248.0.7:1521:RDBMS","it20737124",
"vasavi");
    String jid_ = this.jTextField1.getText();
    int jid = Integer.parseInt(jid_);
    String jrole = this.jTextField2.getText();
    String salary_ = this.jTextField3.getText();
    String location_ = this.jTextField4.getText();
    int salary2 = Integer.parseInt(salary_);
String skills = this.jTextArea1.getText();
    String query = " insert into jobs (jid,role,mid,salary,location,skills_req)"
        + " values (?, ?, ?, ?, ?,?)";

        // create the mysql insert preparedstatement
        PreparedStatement preparedStmt = con.prepareStatement(query);
        preparedStmt.setInt (1,jid);
        preparedStmt.setString (2,jrole);
        preparedStmt.setInt (3,mid);
        preparedStmt.setInt (4,salary2);
        preparedStmt.setString(5,location_);
        preparedStmt.setString(6,skills);

        System.out.println(query);
        preparedStmt.execute();
        //stmt.executeQuery(query);
        System.out.println("Done");

        //store the connection object
        con.close();

```

```

    }catch(Exception e){
        System.out.println(e);
    }
    //JOptionPane.showMessageDialog(new JFrame(), "Sign up is successful!");

    //write db,s code for data insertion

    JOptionPane.showMessageDialog(new JFrame(), "Job posted Successfully!!!");

    }

}

public static void main(String args[]) {
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

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

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

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

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

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

```

```

        new NewJobs().setVisible(true);
    }
});
}

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
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.JScrollPane jScrollPane1;
private javax.swing.JTextArea jTextArea1;
private javax.swing.JTextField jTextField1;
private javax.swing.JTextField jTextField2;
private javax.swing.JTextField jTextField3;
private javax.swing.JTextField jTextField4;
// End of variables declaration
}

```

Interface for Deleting the job posted

```
package my.UI;
```

```

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JFrame;
import javax.swing.JOptionPane;

```

```

public class DeleteJob extends javax.swing.JFrame {
    public DeleteJob() {
        setVisible(false);
        initComponents();
    }
    private void initComponents() {

```

```

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

```



```

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jLabel1.setFont(new java.awt.Font("Segoe UI", 0, 24)); // NOI18N
jLabel1.setText("Enter the job ID you want to delete");

jTextField1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField1ActionPerformed(evt);
    }
});

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

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

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
            layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
                    168, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(238, 238, 238))

```

```

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addComponent(jButton1)
        .addGap(275, 275, 275)))
        .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
        .addGap(177, 177, 177)
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 390,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup()
        .addGap(25, 25, 25)
        .addComponent(jButton2)))
        .addGap(0, 114, Short.MAX_VALUE))
);
layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
        .addGap(28, 28, 28)
        .addComponent(jButton2)
        .addGap(48, 48, 48)
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 54,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, 48,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(45, 45, 45)
        .addComponent(jButton1)
        .addContainerGap(99, Short.MAX_VALUE))
);

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

```

```

private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:

}

```

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

```

```

        validateID();

    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        Manager m = new Manager();
        m.setVisible(true);
        dispose();
    }

    /**
     * @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(DeleteJob.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

        } catch (InstantiationException ex) {

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

        } catch (IllegalAccessException ex) {

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

        }
    }

```

```

        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

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

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new DeleteJob().setVisible(true);
    }
});
}
void validateID()
{
    String s = this.jTextField1.getText();
    String message = "";
    if(s.length() == 0)
        message+="Job ID cannot be empty";
    else {
        for(char c : s.toCharArray()) {
            if (!Character.isDigit(c)) {
                message = message + "Job ID cannot have alphabets or
special characters!\n";
                break;
            }
        }
    }
    if(message.length() != 0)
    {
        JOptionPane.showMessageDialog(new JFrame(), message, "error",
JOptionPane.ERROR_MESSAGE);
    }
    else
    {
        //write logic for data insertion into the database
        String jid_ = this.jTextField1.getText();
        int jid = Integer.parseInt(jid_);

        int mid;

```

```

Login l = new Login();
mid = l.uid;

try
{
    //select count(*) from jobs where mid = 101;
    Class.forName("oracle.jdbc.driver.OracleDriver");
    Connection con=
DriverManager.getConnection("jdbc:oracle:thin:@218.248.0.7:1521:RDBMS","it20737124",
"vasavi");
    Statement st = con.createStatement();
    ResultSet rs = st.executeQuery("select count(*) from jobs where mid = "+mid
+"and jid = "+jid);
    int count =0 ;
    while(rs.next())
        count+=rs.getInt(1);
    if(count<1)
        JOptionPane.showMessageDialog(new JFrame(), "This job is not applied by
you", "error", JOptionPane.ERROR_MESSAGE);
    else
    {
        st.executeQuery("Delete from jobs where mid = "+mid+"and jid = "+jid);
        st.executeQuery("commit");
        JOptionPane.showMessageDialog(new JFrame(), "Deleted successfully!");
        st.close();
        con.close();
    }

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

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JLabel jLabel1;

```

```

        private javax.swing.JTextField jTextField1;
        // End of variables declaration
    }
UI for job requests available
package my.UI;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JFrame;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
public class JobRequests_ extends javax.swing.JFrame {

```

```

    /**
     * Creates new form JobRequests_
     */
    public JobRequests_() {
        setVisible(false);
        initComponents();
    }
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jButton1 = new javax.swing.JButton();
        jScrollPane1 = new javax.swing.JScrollPane();
        jTable1 = new javax.swing.JTable();
        jButton2 = new javax.swing.JButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        jLabel1.setFont(new java.awt.Font("Segoe UI", 0, 24)); // NOI18N
        jLabel1.setText("Enter Job id");

        jTextField1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jTextField1ActionPerformed(evt);
            }
        }

```



```

        .addGap(116, 116, 116)
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 154,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(109, 109, 109)
        .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
178, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup()
            .addGap(259, 259, 259)
            .addComponent(jButton1))
        .addGroup(layout.createSequentialGroup()
            .addGap(27, 27, 27)
            .addComponent(jButton2)))
        .addContainerGap(127, Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(18, 18, 18)
                .addComponent(jButton2)
                .addGap(18, 18, 18)

                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 34,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGap(40, 40, 40)
                    .addComponent(jButton1)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                    .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 215,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addContainerGap(131, Short.MAX_VALUE))
            );

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

public int rowsfound;

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String jid_ = this(jTextField1.getText());
    int jid = Integer.parseInt(jid_);

```



```

String message = "";
int mid;
Login l = new Login();
mid = l.uid;
if(jid_.length()==0)
    message+="jid cannot be empty";
try
{
    //select count(*) from jobs where mid = 101;

    Class.forName("oracle.jdbc.driver.OracleDriver");
    Connection con=
DriverManager.getConnection("jdbc:oracle:thin:@218.248.0.7:1521:RDBMS","it20737124",
"vasavi");
    Statement st = con.createStatement();
    ResultSet rs = st.executeQuery("select count(*) from jobs where mid = "+mid
+"and jid = "+jid);
    int count =0 ;
    while(rs.next())
        count+=rs.getInt(1);
    if(count<1)
        JOptionPane.showMessageDialog(new JFrame(), "This job is not posted by
you", "error", JOptionPane.ERROR_MESSAGE);
    else
    {
        //select * from students where aid in (select aid from jobs_applied where jid =
jid)
        //similar for job_hoppers and display them in tables
        String sql = "select aid,aname,skills,qualification from students where aid in
(select aid from jobs_applied where jid = "+jid+" )";
        PreparedStatement statement = con.prepareStatement(sql);
        statement.execute();
        rowsfound = statement.executeUpdate();
        System.out.println("Hello");
        if(rowsfound==0)
        {
            //write logic for data insertion into the database
            JOptionPane.showMessageDialog(new JFrame(),"No details Found! ", "error",
JOptionPane.ERROR_MESSAGE);

        }
    }
}
else {

```

```

        st=con.createStatement();
        String query="select aid,aname,skills,qualification from students where aid in
(select aid from jobs_applied where jid = "+jid+" )";
        //statement.setString(1,pname1);
        System.out.println(query);
        //PreparedStatement st = con.prepareStatement(query);
        rs=st.executeQuery(query);
        //table.setModel(DbUtils.resultSetToTableModel(rs));
        while(rs.next())
        {
            String aid=String.valueOf(rs.getInt("aid"));
            String aname=rs.getString("aname");
            String skills=rs.getString("skills");
            String qualification=rs.getString("qualification");

            String tbData[]={ aid,aname,skills,qualification };
            DefaultTableModel tblModel=(DefaultTableModel)jTable1.getModel();
            tblModel.addRow(tbData);
        }

        System.out.println(query);
    }
    System.out.println("Done");

    //close the connection object
    con.close();

}

}

catch(Exception e)
{
    System.out.println(e);
}
try
{
    Class.forName("oracle.jdbc.driver.OracleDriver");
    Connection con=
DriverManager.getConnection("jdbc:oracle:thin:@218.248.0.7:1521:RDBMS","it20737124",
"vasavi");
    Statement st = con.createStatement();

```

```

        ResultSet rs = st.executeQuery("select count(*) from jobs where mid = "+mid
+"and jid = "+jid);
        int count =0 ;
        while(rs.next())
            count+=rs.getInt(1);
        if(count<1)
            JOptionPane.showMessageDialog(new JFrame(), "This job is not posted by
you", "error", JOptionPane.ERROR_MESSAGE);
        else
        {
            //select * from students where aid in (select aid from jobs_applied where jid =
jid)

            //similar for job_hoppers and display them in tables
            String sql = "select aid,aname,skills,qualification from job_hoppers where aid in
(select aid from jobs_applied where jid = "+jid+)";
            PreparedStatement statement = con.prepareStatement(sql);
            statement.execute();
            rowsfound += statement.executeUpdate();
            System.out.println("Hello");
            if(rowsfound==0)
            {
                //write logic for data insertion into the database
                JOptionPane.showMessageDialog(new JFrame(),"No details Found! ", "error",
JOptionPane.ERROR_MESSAGE);

            }
            else {
                st=con.createStatement();
                String query="select aid,aname,skills,qualification from job_hoppers where aid in
(select aid from jobs_applied where jid = "+jid+)";
                //statement.setString(1,pname1);
                System.out.println(query);
                //PreparedStatement st = con.prepareStatement(query);
                rs=st.executeQuery(query);
                //table.setModel(DbUtils.resultSetToTableModel(rs));
                while(rs.next())
                {
                    String aid=String.valueOf(rs.getInt("aid"));
                    String aname=rs.getString("aname");
                    String skills=rs.getString("skills");
                    String qualification=rs.getString("qualification");

```

```

        String tbData[]={aid,aname,skills,qualification};
        DefaultTableModel tblModel=(DefaultTableModel)jTable1.getModel();
        tblModel.addRow(tbData);
    }

    System.out.println(query);
    }
    System.out.println("Done");

    //close the connection object
    con.close();

}

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

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    Manager m = new Manager();
    m.setVisible(true);
    dispose();
}

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

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(JobRequests_.class.getName()).log(java.util.logging.Level
    SEVERE, null, ex);
    } catch (InstantiationException ex) {

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

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

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

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JLabel jLabel1;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable jTable1;

```

```

        private javax.swing.JTextField jTextField1;
        // End of variables declaration
    }
UI for accepting requests
package my.UI;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.text.SimpleDateFormat;
import javax.swing.JFrame;
import javax.swing.JOptionPane;

/**
 *
 * @author HP
 */
public class AcceptsRequests extends javax.swing.JFrame {

    /**
     * Creates new form AcceptsRequests
     */
    public AcceptsRequests() {
        initComponents();
    }

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

        jLabel1 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jLabel2 = new javax.swing.JLabel();
        jTextField2 = new javax.swing.JTextField();

```



```

        .addGroup(layout.createSequentialGroup())
        .addGap(235, 235, 235)
        .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
136, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup())
        .addGap(210, 210, 210)
        .addComponent(jLabel2))
        .addGroup(layout.createSequentialGroup())
        .addGap(194, 194, 194)
        .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,
223, javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addContainerGap(99, Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup())
        .addGap(20, 20, 20)
        .addComponent(jButton1)
        .addGap(17, 17, 17)
        .addComponent(jLabel2)
        .addGap(30, 30, 30)
        .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 40,
Short.MAX_VALUE)
        .addComponent(jLabel1)
        .addGap(18, 18, 18)
        .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(40, 40, 40)
        .addComponent(jButton2)
        .addGap(29, 29, 29))
    );

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

```

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    Manager m = new Manager();
}

```



```

        m.setVisible(true);
        dispose();
    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        String aid_ = this.jTextField1.getText();
        String jid_ = this.jTextField2.getText();
        int jid = Integer.parseInt(jid_);
        int aid = Integer.parseInt(aid_);
        String message = "";
        if (aid_.length() == 0) {
            message = message + "Phone number cannot be empty!\n";
        }
        else {
            for(char c : aid_.toCharArray()) {
                if (!Character.isDigit(c)) {
                    message = message + "Phone number cannot have
alphabets or special characters!\n";
                    break;
                }
            }
            if (message.length() != 0) {
                JOptionPane.showMessageDialog(new JFrame(), message, "error",
JOptionPane.ERROR_MESSAGE);

            }
            else
            {
                try{
                    //step1 load the driver class
                    Class.forName("oracle.jdbc.driver.OracleDriver");
                    Login s = new Login();
                    int mid = s.uid;

                    //step2 create the connection object
                    Connection con=
                    DriverManager.getConnection("jdbc:oracle:thin:@218.248.0.7:1521:RDBMS","it20737124",
"vasavi");

```

```

String query = " update jobs_applied set status = 'yes' where aid =? and jid = ?";

        // create the mysql insert preparedstatement
        PreparedStatement preparedStmt = con.prepareStatement(query);
        preparedStmt.setInt (1,aid);
        preparedStmt.setInt (2,jid);
        System.out.println(query);
    preparedStmt.execute();
    //stmt.executeQuery(query);
    System.out.println("Done");

    //store the connection object
    con.close();

    }catch(Exception e){
        System.out.println(e);
    }
    JOptionPane.showMessageDialog(new JFrame(), "Accepted successful!");

    }

    }

}

public static void main(String args[]) {
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

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

        } catch (InstantiationException ex) {

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

        } catch (IllegalAccessException ex) {

```

```

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

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

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

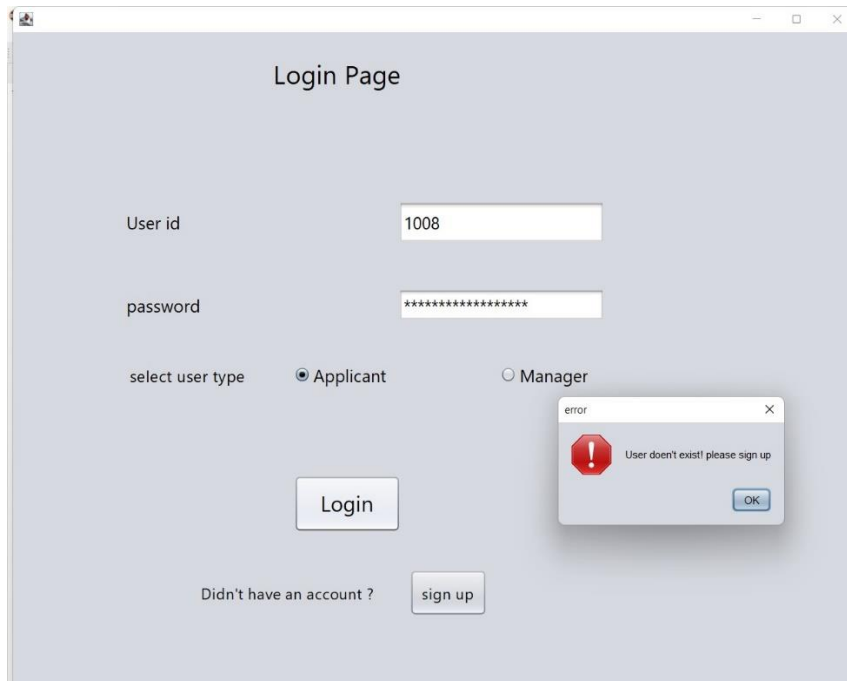
// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JTextField jTextField1;
private javax.swing.JTextField jTextField2;
// End of variables declaration
}

```

GitHub link

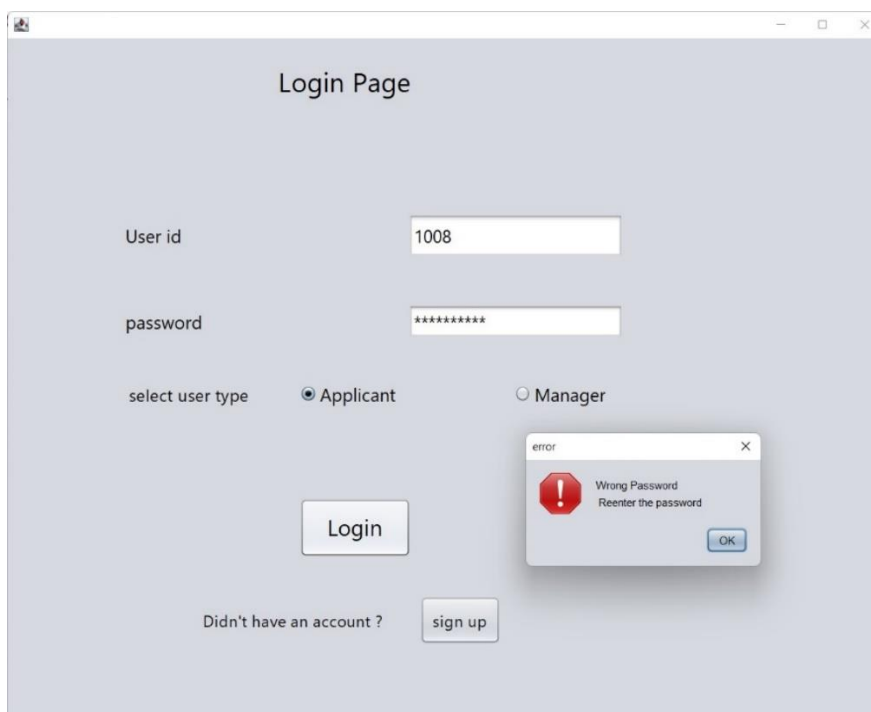
https://github.com/K-Anirudh/Job_Finder

Testing



The screenshot shows a web browser window titled "Login Page". It contains the following elements:

- User id:** A text input field containing the value "1008".
- password:** A password input field filled with asterisks "*****".
- select user type:** Two radio buttons. "Applicant" is selected, and "Manager" is unselected.
- Login:** A button to submit the login form.
- Didn't have an account ?** A link with a "sign up" button next to it.
- Error Dialog:** A small window titled "error" with a red exclamation mark icon. The message reads: "User doesn't exist! please sign up". There is an "OK" button at the bottom right of the dialog.



The screenshot shows the same "Login Page" as above, but with a different error message in the dialog box:

- User id:** The text input field still contains "1008".
- password:** The password input field still contains "*****".
- select user type:** "Applicant" remains selected.
- Login:** The button is still present.
- Didn't have an account ?** The link and "sign up" button are still present.
- Error Dialog:** The dialog box now displays a red exclamation mark icon and the message: "Wrong Password Reenter the password". The "OK" button is still at the bottom right.

Signup page

User name

hari

password

hari@123

confirm password

select user type

☒ Applicant

☐ Manager

sign up

error

!

Username must be greater than 5 characters!

OK

Manager profile

Enter your details

Firstname*

Lastname

Company*

Phone Number*

error

First name cannot have digits or special characters!
Last name cannot have digits or special characters!
Phone number must have exactly 10 digits!

OK

Enter your details

Firstname*

Lastname

Company*

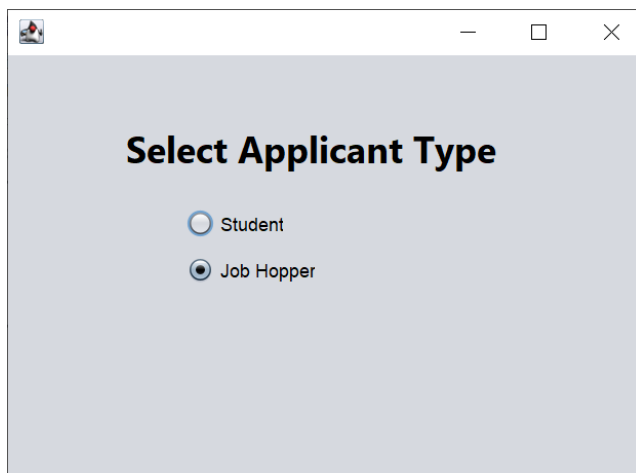
Phone Number*

Message

Registered Successfully!!
Your user id is 111
Login with your userid

OK

Applicant Type



A screenshot of a web application window titled "Select Applicant Type". The window has a light gray background and a standard window title bar with minimize, maximize, and close buttons. The title "Select Applicant Type" is centered at the top in a bold, black font. Below the title, there are two radio button options: "Student" and "Job Hopper". The "Job Hopper" option is selected, indicated by a filled black circle next to it.

Select Applicant Type

☐ Student

☒ Job Hopper

Student profile



A screenshot of a web application window titled "Enter your details". The window has a light gray background and a standard window title bar. The form contains several input fields for a student's profile. A message dialog box is overlaid on the form, displaying a success message. The form fields are as follows:

- Firstname*: naresh
- Lastname: rathod
- Date of Birth*: 13-08-2002
- Phone number*: 9912288321
- College Name*: pullareddy Degree college
- Qualification*: BA
- CGPA*: 8.2
- Projects: sudoku game using AI&ML
- Skills: good speaking skills

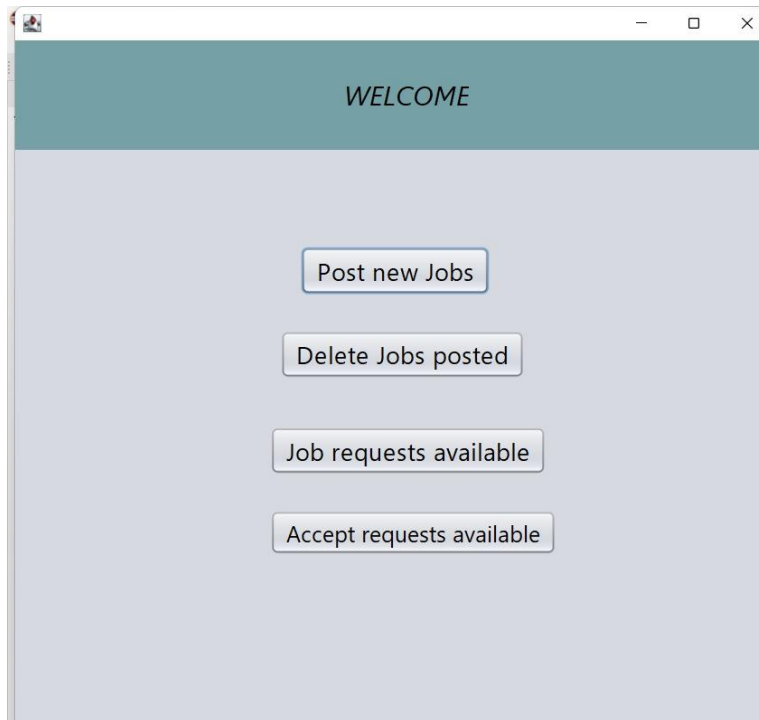
A "Submit" button is located at the bottom of the form. A message dialog box is overlaid on the form, displaying the following text:

Message

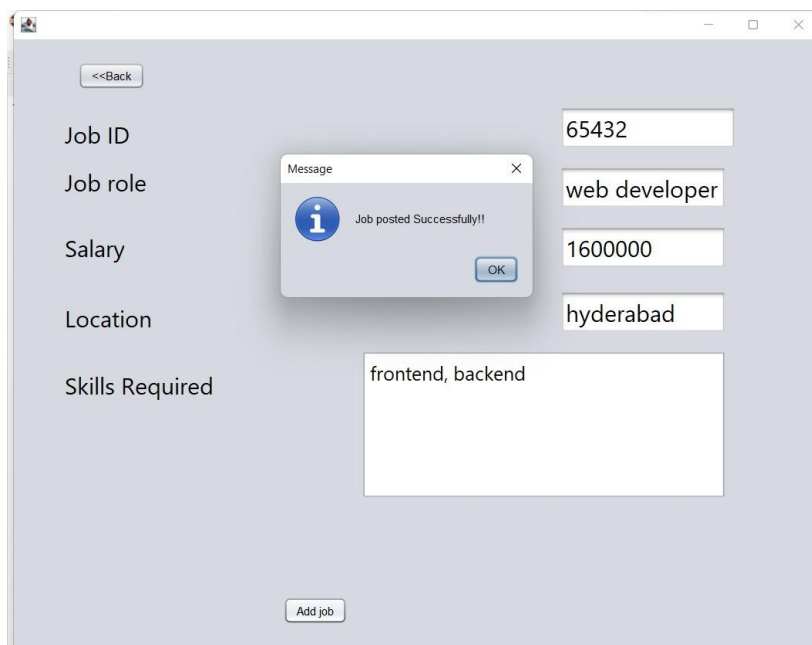
Registered Successfully!!
Your user id is 1008
Login with your userid

OK

Manager menu



Posting new job



Job requests available

<<Back

Enter Job id

view requests

Title 1	Title 2	Title 3	Title 4
32953	Anirudh	Java,C++,C#,kotlin	Btech

Accept requests


<<Back

Enter the job id

Enter the applicant ID you want

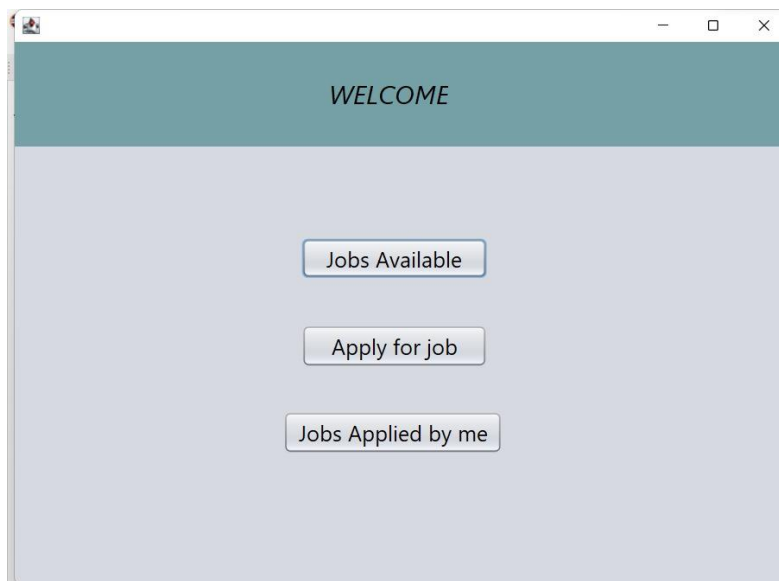
Accept

Message

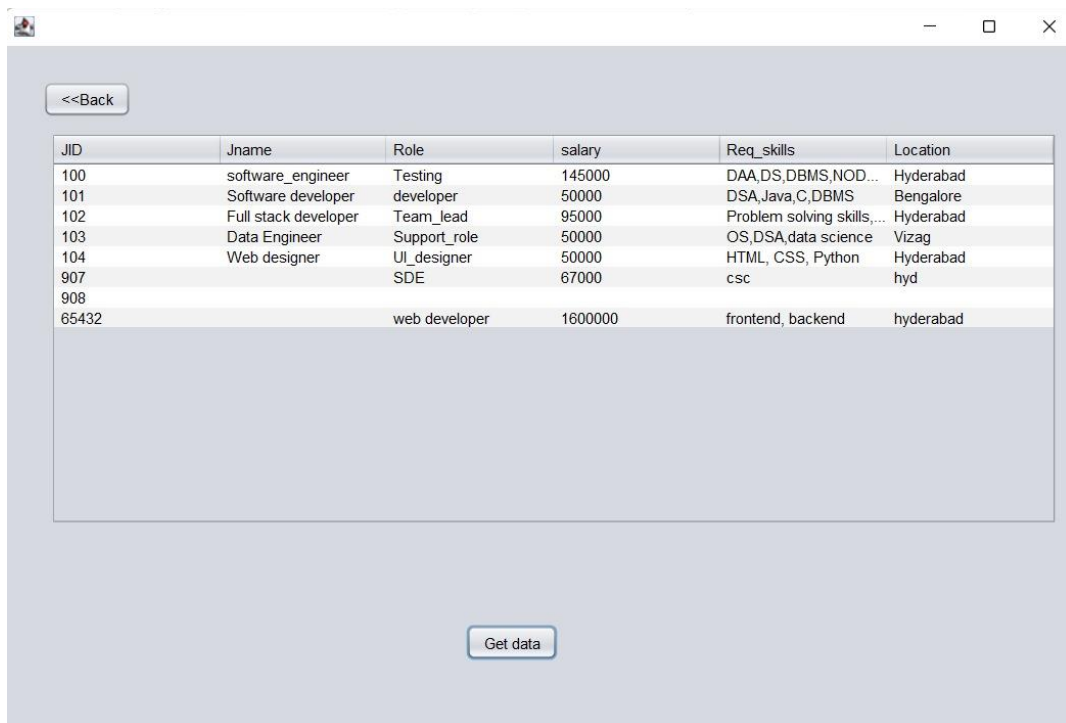
 Accepted successfull

OK

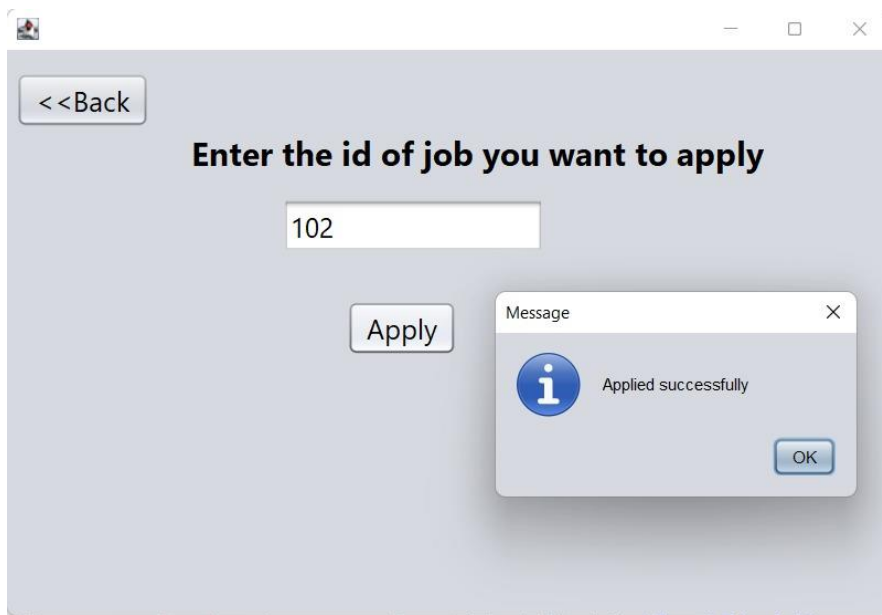
Applicant home page



Jobs Available




Apply job



The screenshot shows a web application window with a light gray background. At the top left, there is a button labeled "<<Back". In the center, the text "Enter the id of job you want to apply" is displayed. Below this text is a text input field containing the number "102". To the right of the input field is a button labeled "Apply". Overlaid on the bottom right of the main window is a smaller "Message" dialog box. This dialog box has a title bar with a close button (X). Inside, there is a blue circular icon with a white lowercase 'i' on the left, and the text "Applied successfully" on the right. At the bottom right of the message box is an "OK" button.

Jobs applied by me



The screenshot shows a web application window with a light gray background. At the top left, there is a button labeled "<<Back". Below it is a table with four columns: "jid", "jname", "locaton", and "status". The table contains one row of data. Below the table is a large, empty rectangular box.

jid	jname	locaton	status
102	Full stack develo...	Hyderabad	yes

Additional work:

Graph database using Neo4j:

Creating manager and jobs nodes and connecting them via “posts_job” relationship:

```
create
(varun:MANAGER{mid:401,name:"varun",company:"S&P
global",phone_number:8982525310}),
(Naini:MANAGER{mid:402,name:"Naini",company:"infosys",phone_number:1234567890}
),
(Rupa:MANAGER{mid:403,name:"Rupa",company:"Wipro",phone_number:98484321166}
),
(Tiwari:MANAGER{mid:404,name:"Tiwari",company:"ServiceNow",phone_number:85567
81234}),
(Kajal:MANAGER{mid:405,name:"Kajal",company:"GSPSNN",phone_number:944089595
0}),
(software_developer:JOBS{jid:101,jname:"Software
developer",mid:402,salary:50000,skills_req:"DSA,Java,C,DBMS",location:"Bengalore"}),
(full_stack_dev:JOBS{jid:102,jname:"Full stack
developer",mid:403,salary:40000,skills_req:"Problem solving
skills,Java,SQL,DSA",location:"Hyderabad"}),
(DataEngineer:JOBS{jid:103,jname:"Data
Engineer",mid:401,salary:80000,skills_req:"OS,DSA,data science",location:"Vizag"}),
(Web_designer:JOBS{jid:104,jname:"Web
designer",mid:401,salary:50000,skills_req:"HTML, CSS, Python",location:"Hyderabad"}),
(Tester:JOBS{jid:105,jname:"Software
tester",mid:404,salary:45000,skills_req:"C,C++,Java,Testing
knowledge",location:"Chennai"}),

(varun)-[:posts_job]->(DataEngineer),
(varun)-[:posts_job]->(Web_designer),
(Naini)-[:posts_job]->(software_developer),
(Rupa)-[:posts_job]->(full_stack_dev),
(Tiwari)-[:posts_job]->(Tester),
```

Creating student and job hopper nodes and connecting them with jobs nodes via “applies_for” relationship:

```
create
(Akhil:STUDENT{aid:31549,aname:"Akhil",Skills:"MongoDB,Salesforce",phone_number:7
331161827,DOB:11-10-
2002,college_name:"Anurag_college_of_Engineering",Qualification:"Btech",CGPA:9.45,Pro
jects:"Graphical_Password_Authentication"}),
```

(Ajay:STUDENT{ aid:31984,aname:"Ajay",Skills:"Kotlin,Frontend,Backend,PHP",
 phone_number:7995749748,DOB:12-11-
 2001,college_name:"Vasavi_college_of_engineering",Qualification:"Btech",CGPA:9.95,Proj
 ects:"Big_Data_Searching"}),
 (Anjan:STUDENT{ aid:32282,aname:"Anjan",Skills:"C,SQL,Java,DBMS",
 phone_number:9394151831,DOB:28-02-
 2003,college_name:"Vardhaman_college_of_engineering",Qualification:"Btech",CGPA:8.40
 ,Projects:"Network_Traffic_Analyzer"}),
 (Anirudh:STUDENT{ aid:329523,aname:"Anirudh",Skills:"Java,C++,C#,Salesforce,kotlin",
 phone_number:9247123892,DOB:12-12-
 2002,college_name:"Institute_of_Aeurnautical_engineering",Qualification:"Btech",CGPA:9
 .56,Projects:"Mobile_Operator_Booking_Platform"}),
 (vineeth:STUDENT{ aid:31984,aname:"vineeth",Skills:"Frontend,Backend,PHP",
 phone_number:7995749747,DOB:12-11-
 2001,college_name:"Vardaman",Qualification:"Btech",CGPA:9.95,Projects:"Big_Data_Sear
 ching"}),

(Vamshi:JOBHOPPER{ aid:99123,aname:"Vamshi",Skills:"MongoDB,Salesforce",
 phone_number:90059031725, DOB:11-10-
 1995,Qualification:"Btech",Previous_JobRole:"Software_Engineer",Previous_Company:"S&
 P_Global"}),
 (Shyam:JOBHOPPER{ aid:22431,aname:"Shyam",Skills:"Kotlin,Frontend,Backend,PHP",
 phone_number:9000405015,DOB:12-11-
 1996,Qualification:"Btech",Previous_JobRole:"Software_Developer",Previous_Company:"G
 SPNN_Technologies"}),
 (Amulya:JOBHOPPER{ aid:78010,aname:"Amulya",Skills:"C,SQL,Java,DBMS",phone_nu
 mber:9959152996,DOB:28-02-
 1997,Qualification:"Btech",Previous_JobRole:"Software_Tester",Previous_Company:"IBM"
 }),
 (Keerthy:JOBHOPPER{ aid:85502,aname:"keerthy",Skills:"Java,C++,C#,Salesforce,kotlin",
 phone_number:8073011313,DOB:12-12-
 1992,Qualification:"Btech",Previous_JobRole:"Software_Tester",Previous_Company:"Infosy
 s"}),
 (shravan:JOBHOPPER{ aid:99123,aname:"shravan",Skills:"MongoDB,Salesforce",
 phone_number:90059031721, DOB:11-10-
 1993,Qualification:"Btech",Previous_JobRole:"Software_Engineer",Previous_Company:"S&
 P_Global"}),

(Akhil)-[:applies_for]->(software_developer),
 (Akhil)-[:applies_for]->(DataEngineer),
 (Ajay)-[:applies_for]->(full_stack_dev),
 (Ajay)-[:applies_for]->(software_developer),
 (Ajay)-[:applies_for]->(Web_designer),
 (Anirudh)-[:applies_for]->(software_developer),

```

(Anirudh)-[:applies_for]->(DataEngineer),
(Anirudh)-[:applies_for]->(full_stack_dev),
(vineeth)-[:applies_for]->(full_stack_dev),
(vineeth)-[:applies_for]->(Tester),

(Vamshi)-[:applies_for]->(DataEngineer),
(Vamshi)-[:applies_for]->(full_stack_dev),
(Shyam)-[:applies_for]->(DataEngineer),
(Shyam)-[:applies_for]->(full_stack_dev),
(Amulya)-[:applies_for]->(software_developer),
(Keerthy)-[:applies_for]->(Tester),
(shravan)-[:applies_for]->(full_stack_dev),
(shravan)-[:applies_for]->(software_developer),
(shravan)-[:applies_for]->(Web_designer)

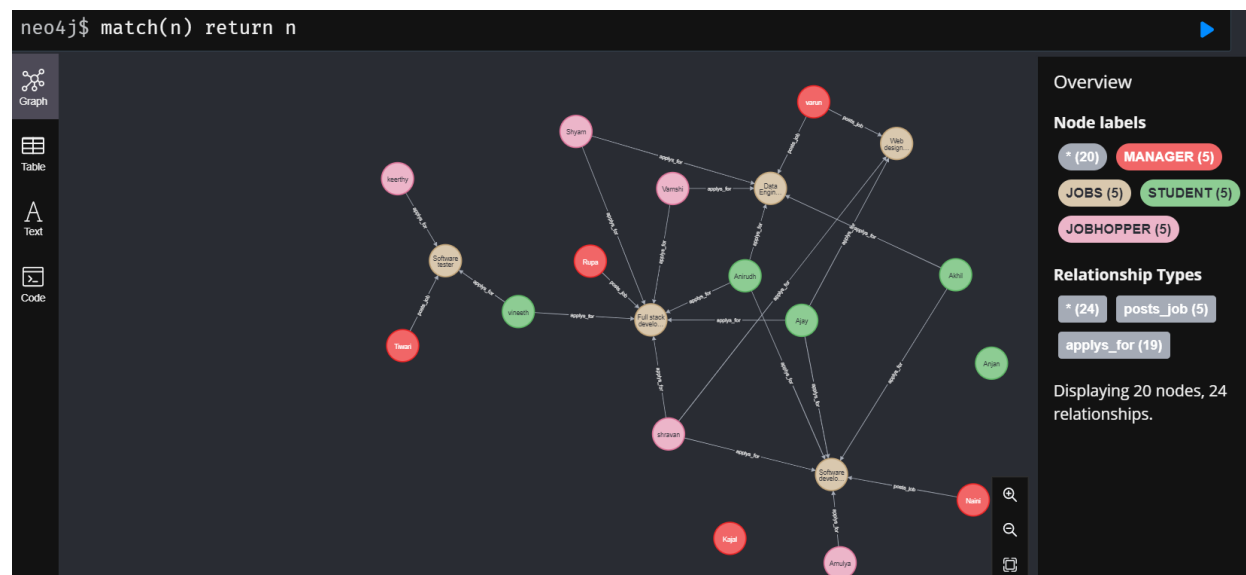
```

Outputs:

Displaying the entire graph:

Command :

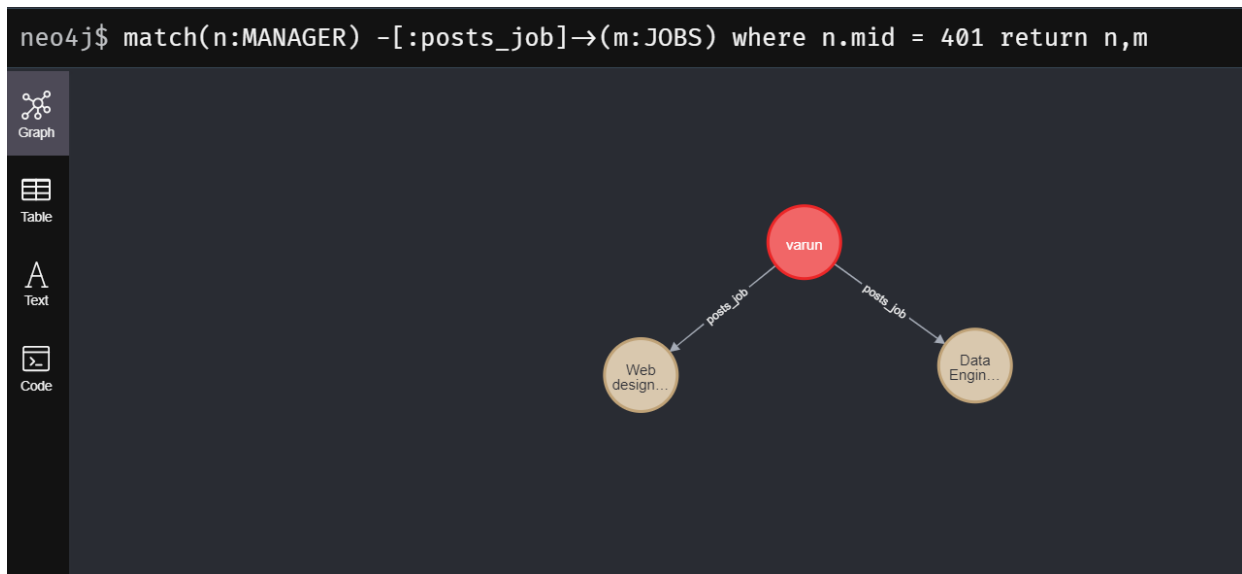
match(n) return n



Finding the jobs posted by particular manager:

Command:

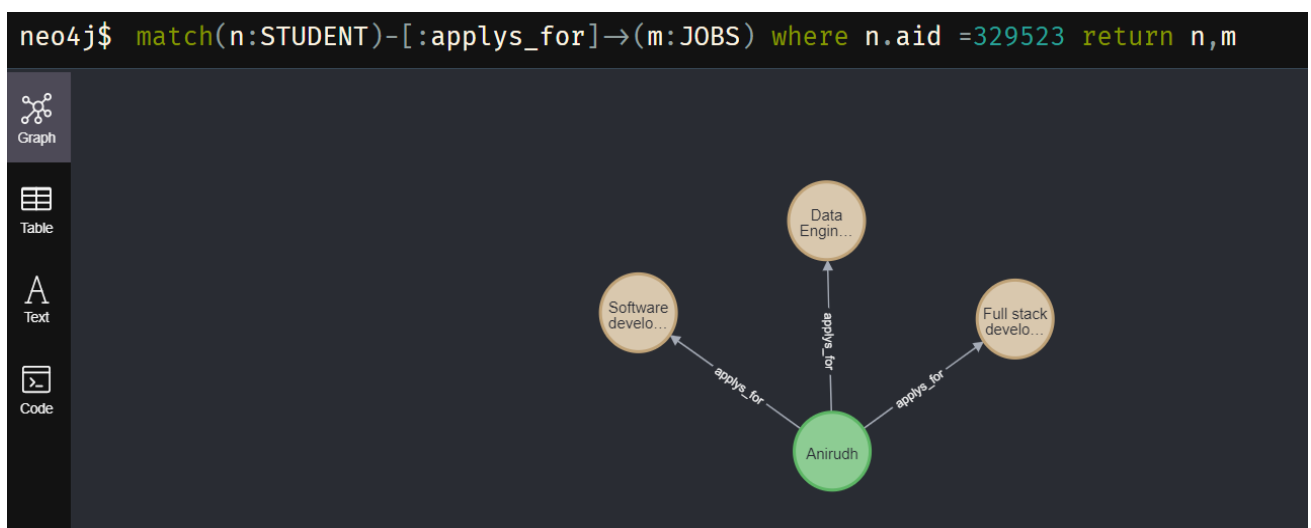
`match(n:MANAGER) -[:posts_job]->(m:JOBS) where n.mid = 401 return n,m`



Finding jobs applied by particular students:

Command:

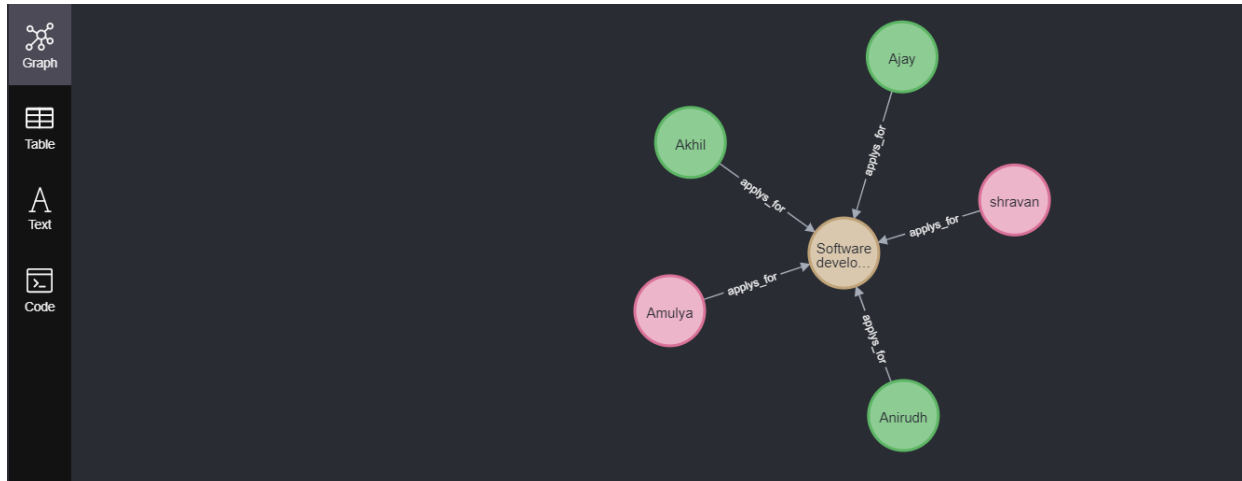
`match(n:STUDENT)-[:applys_for]->(m:JOBS) where n.aid = 329523 return n,m`



Finding the applicants applied for a particular job:

Command :

```
match(n:STUDENT)-[:applies_for]->(k:JOBS)<-[:applies_for]-(m:JOBHOPPER) where k.jid = 101  
return n,m,k
```



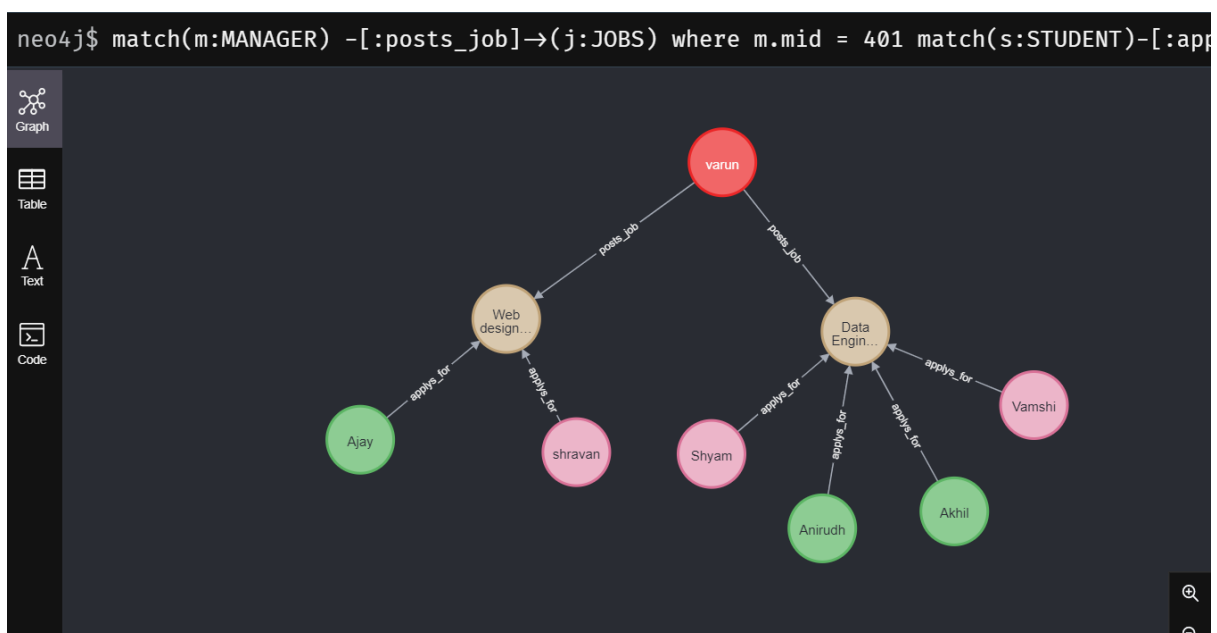
Finding all the jobs posted by particular manager and applicants applied to it:

Command :

```
match(m:MANAGER) -[:posts_job]->(j:JOBS) where m.mid = 401
```

```
match(s:STUDENT)-[:applies_for]->(j:JOBS)<-[:applies_for]-(k:JOBHOPPER)
```

```
return m,j,k,s
```



Results

We have successfully completed the project “The job finder” and able to know how to implement DBMS concepts to real word projects.

Discussion and Future work

This project provides basic user interface through which it connects applicants and managers. In future I want to create better UI and want to make more feasible to all devices by implementing this as application or a web page. I also want to add more features like giving suggestions to applicant to which job they are most suitable and another feature is to add suggestions for the manager to choose the best one for the job from all the applicants.

References

- <https://docs.oracle.com/javase/7/docs/api/>
- <https://stackoverflow.com/>
- <https://www.javatpoint.com/dbms-tutorial>
- <https://netbeans.apache.org/kb/docs/java/gui-functionality.html>
- <https://youtu.be/8jNPelugC2s>
- <https://neo4j.com/developer/graph-database/>