

**JAVA AWT BASED- REGISTRATION FORM- SQL  
CONNECTIVITY USING JDBC**

*Report*

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

**BACHELOR OF ENGINEERING**

In

**INFORMATION TECHNOLOGY**

By

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**Ibrahimbagh, Hyderabad-31 2020**

## **BONAFIDE CERTIFICATE**

This is to Certify that this project report titled "**ONLINE ADAPTIVE ASSESSMENT FEEDBACK FROM**" is the bonafied project work of **Ms. VYUHA KANDULA** bearing Roll.no:**1602-18-737-119** who carried out this project under my supervision in the IV semester for the academic year **2019-2020**.

**Signature**

*external examiner*

**Signature**

*internal examiner*

## AIM:

To create a **Java GUI online adaptive assessment feedback form** which takes the values like: student ID, student name, email, phone number, course, gender from the user. These values are to be updated in the database using **JDBC connectivity** .

## ABSTRACT:

### Requirement analysis :

THE BASIC OBJECTIVE OF ONLINE ADAPTIVE SYSTEM IS TO ANALYSE THE CATEGORY OF STUDENTS TO WHICH THE BELONGS TO BASED ON TEST CONDUCTED.

This project **ONLINE ADAPTIVE ASSESSMENT PLATFROM**, As a continous effort to improve and increase education system we implemented an online assessment server.its purpose is to ease the students examination process and to provide a transparent and object assessment.the application is developed using sql and javascript. Using admistration module,one can add or remove questions,question categories,can create test and set parameters in it. And immediately after exam this gives all details like no.of questions correct,wrong, total no.of questions, attended questions.after that examine\_cell will examine the test details and give us the unique rank of particular student.and total score,then results will be released and student will be assessed to particular category they belongs to .

THE DATA BASE CONTAINS 4 ENTITIES. THEY ARE

- 1.**STUDENTS**-WHICH CONTAINS STUDENT DETAILS FOR ENROLLMENT TO EXAM
- 2.**TEST**-WHICH CONTAINS EXAM DETAILS
- 3.**EXAMINE\_CELL**-WHICH ASSESS THE MARKS OF STUDENTS
- 4.**RESULTS**-WHICH GIVES THE RESULT TO STUDENTS

THE DATABASE CONSISTS OF 4 RELATIONSHIP SETS

THEY ARE:

**REGISTERS:**WHICH RESGISTER THE DETAILS

**CHECKS :** WHICH CHECKS THE TEST RESULT AND EXAMINES

**EXAM\_RESULT:**AFTER ASSESSMENT THIS GIVES THE RESULTS

**RELEASES:** FINALLY AFTER ASSESSEMENT RESULTS ARE RELEASED TO STUDENTS

**list of attributes with their domain types:**

**student\_s:**

sid: number(10)

sname: char(10)

email:varchar2(25)

phnnumber:number(10)

course:var(10)

**test:**

total\_questions:number(10)

atemptted\_questions:number(10)

correct\_answers:number(10)

wrong\_answer:

number(10)

tid:number(10)

**examine\_cell**

sid:number

rank:number

total\_score:number

medal\_gained:char

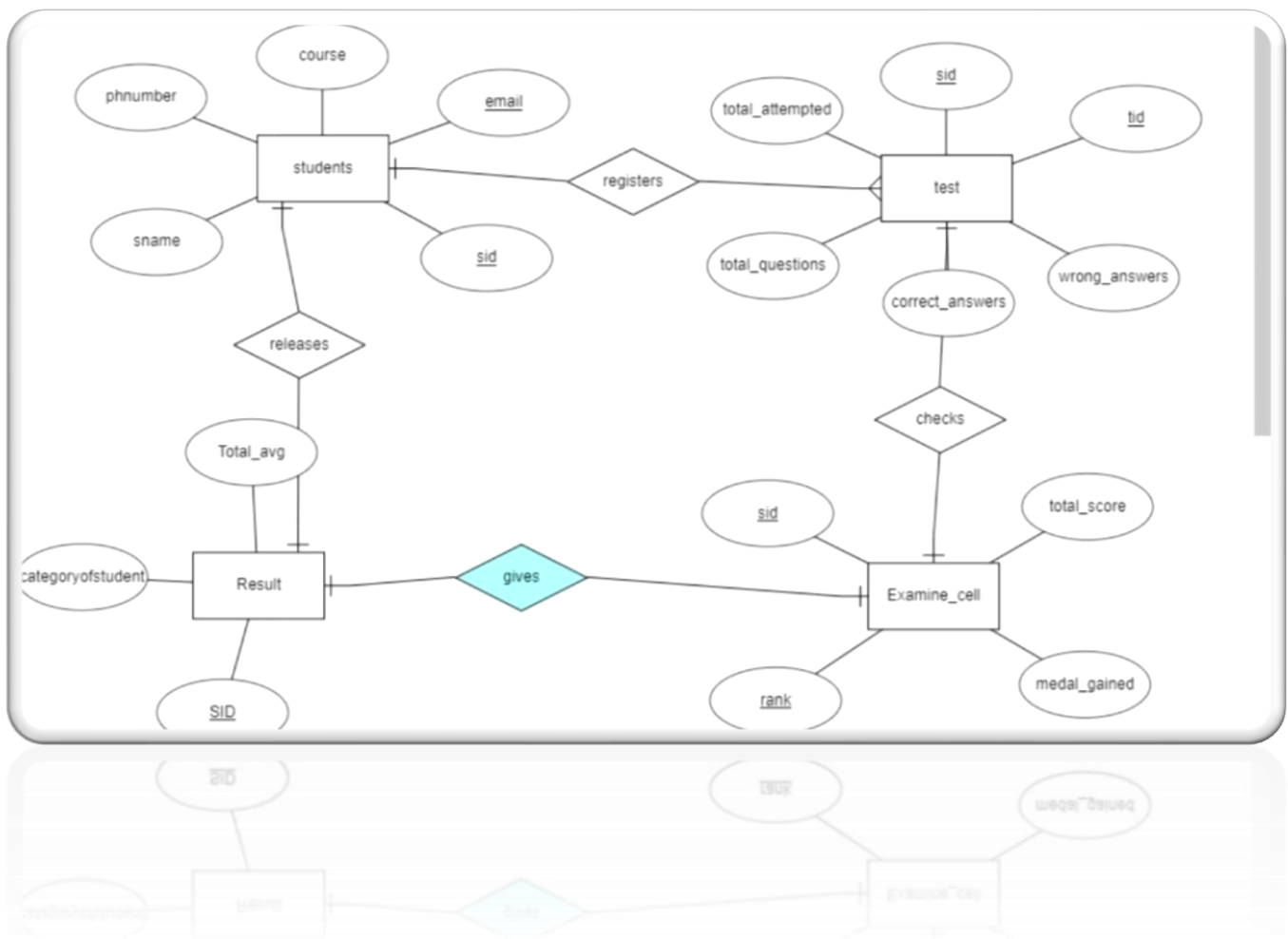
**results:**

total\_avg:number

category of student:varchar

sid:number

**ENTITY RELATIONSHIP DIAGRAM:&**



## **MAPPING CARDINATES:**

STUDENTS TO TEST :MANY TO ONE

TEST TO EXAMINE\_CELL:ONE TO ONE

EXAMINE\_CELL TO RESULT:ONE TO ONE

RESULT TO STUDENTS: ONE TO ONE

## **DDL COMMANDS :**

### **STUDENT\_S:**

```
SQL>CREATE TABLE STUDENT_S(SID NUMBER(),SNAME VARCHAR(),EMAIL  
VARCHAR2(),PHNNUM NUMBER(),COURSE VARCHAR(),GENDER VARCHAR  
( ),PRIMARY KEY SID());
```

### **REGISTERS:**

```
SQL>CREATE TABLE REGISTERS (SID NUMBER(10),TID NUMBER(10),FOREIGN KEY(SID)  
REFERENCES STUDENT_S,FOREIGN KEY(TID) REFERENCES TEST);
```

### **TEST:**

```
SQL>CREATE TABLE TEST(TID NUMBER(10),SID NUMBER(10),TOT_ATTEMPTED  
NUMBER(),TOT_QUESTIONS NUMBER(), CRT_ANSWR NUMBER(),WRNG_ANSWR  
NUMBER(),PRIMARY KEY TID(),FOREIGN KEY(SID) REFERENCES STUDENT_S);
```

### **CHECKS:**

```
SQL>CREATE TABLE CHECKS(TID NUMBER(),SID NUMBER(),RANK VARCHAR(),  
FOREIGN KEY(SID) REFERENCES STUDENT_S,FOREIGN KEY(TID) REFERENCES  
TEST,FOREGIN KEY(RANK) REFERENCES EXAMINE_CELL);
```

### **EXAMINE\_CELL:**

```
SQL>CREATE TABLE EXAMINE_CELL(SID NUMBER(),RANK VARCHAR(),TOTAL_SCORE  
NUMBER(10),MEDAL VARCHAR(),PRIMARY KEY(SID),FOREIGN KEY(SID) REFERENCES  
STUDENT_S);
```

### **EXAMINE\_RESULT:**

```
SQL>CREATE TABLE EXAMINE_RESULT(RID NUMBER(10),SID NUMBER(10),RANK  
VARCHAR(10),FOREIGN KEY(RID) REFERENCES RESULTS,FOREIGN KEY(SID)  
REFERENCES STUDENT_S);
```

### **RESULTS:**

```
SQL>CREATE TABLE RESULTS(RID NUMBER(10),SID NUMBER(10),TOT_AVG  
NUMBER(10),CATEGORY VARCHAR2(10) PRIMARY KEY(RID) ,FOREIGN KEY(SID)  
REFERENCES STUDENT_S);
```

### **RELEASES:**

```
SQL>CREATE TABLE RELEASES(RID NUMBER(10),SID NUMBER(10),FOREGIN KEY(RID)  
REFERENCES RESULT,FOREGIN KEY(SID) REFERENCES STUDENT_S);
```

## **DML COMMANDS:**

### **STUDENT S:**

```
INSERT INTO STUDENT_S TABLE  
VALUES(&SID,'&SNAME','&EMAIL',&PHNNUM,'&COURSE','&GENDER');
```

```
SQL> SELECT * FROM STUDENT_S;
```

SID SNAME

PHNNUM EMAIL

COURSE

GENDER

DBMS PROJECT  
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1 vyuha 9441133198 vvu@gmail.com cse  
f

2 greta 9876543212 gk@gmail.com it  
f

3 keerthana 9848438982 kg@gmail.com it  
f

SID	SNAME	PHNNUM	EMAIL	COURSE
-----	-------	--------	-------	--------

-----  
GENDER

-----  
4 sujitha 8736273831 ts@gmail.com it  
f

5 karthik 7685940323 rk@gmail.com eee  
m

6 maneeth 9867453212 sm@gmail.com ece  
m

SID	SNAME	PHNNUM	EMAIL	COURSE
-----	-------	--------	-------	--------

-----  
GENDER

-----  
107 greta 9881 g@gmail.com it  
f

119 vyuha 9848438980 v@gmail.com it  
f



8 rows selected.

**REGISTERS:**

INSERT INTO REGISTERS VALUES(&SID,&RID);

SQL> SELECT \* FROM REGISTERS;

SID	TID
1	101
2	102
3	103
4	104
5	105
6	106

6 rows selected.

**TEST:**

INSERT INTO TEST

VALUES(&TID,&SID,&TOT\_ATTEMPT,&CRT\_ANSWR,&WRNG\_ANSWR,&TOT\_QUEST);

SQL> SELECT \* FROM TEST;

SID	TOT_ATTEMPTED	TOT_QUEST	CRT_ANSWR	WRNG_ANSWR	TID
2	10	10	8	2	102
3	10	10	7	3	103
4	8	10	7	1	104

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5	9	10	9	0	105
6	10	10	10	0	106
2	10	7	6	1	109

6 rows selected.

**CHECKS:**

INSERT INTO CHECKS VALUES(&TID,&SID,'&RANK');

SQL> SELECT \* FROM CHECKS;

TID	SID	RANK
102	1	3
102	1	3
103	3	6
104	4	5
105	5	2
106	6	1
102	2	4

7 rows selected.

**EXAMINE\_CELL:**

INSERT INTO EXAMINE\_CELL VALUES(&SID,&TOT\_SCORE,'&MEDAL\_GAINED','&RANK');

```
SQL> SELECT * FROM EXAMINE_CELL;
```

SID	TOTAL_SCORE	MEDAL_GAIN	RANK
1	8	gold	3
2	8	gold	4
3	7	silver	6
4	7	silver	5
5	9	gold	2
6	10	gold	1

6 rows selected.

### **EXAMINE RESULT:**

```
INSERT INTO EXAMINE_RESULT VALUES(&RID,&SID,'&RANK');
```

```
SQL> SELECT * FROM GIVES;
```

RID	SID	RANK
202	2	4
203	3	6
204	4	5
205	5	2

### **RESULTS:**

```
INSERT INTO RESULTS VALUES(&RID,&TOT_AVG,&RID,'&CATEGORY');
```

```
SQL> SELECT * FROM RESULTS;
```

SID	TOTAL_AVG	RID	CATEGORY
1	80	201	a1
2	80	202	a1
3	70	203	a2
4	70	204	a2
5	90	205	a2
6	100	206	a1

6 rows selected.

### **RESELEASES:**

```
INSERT INTO RELEASES VALUES(&RID,&SID);
```

```
SQL> SELECT * FROM RELEASES;
```

SID	RID
1	201
2	202
3	203
4	204
5	205

## **SOFTWARE USED:**

Java Eclipse, Oracle 11g Database, Java SE version 7, SQL\*Plus.

## **Java AWT:**

**Java AWT** (Abstract Window Toolkit) is an API to develop GUI or window-based applications in java.

Java AWT components are platform-dependent i.e. components are displayed according to the view of operating system. AWT is heavyweight i.e. its components are using the resources of OS.

The java.awt package provides classes for AWT API such as TextField, Label, TextArea, JButton, CheckBox, Choice, List etc.

## **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:

```
private void connToDb(){
    try {
        Class.forName("oracle.jdbc.driver.OracleDriver");
        connection = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1522:xe","vyuha","vasavi");
        statement = connection.createStatement();

    } catch (SQLException connectException) {
        System.out.println(connectException.getMessage());
        System.out.println(connectException.getSQLState());
        System.out.println(connectException.getErrorCode());
        System.exit(1);
    }
    catch (Exception e)
    {
        System.err.println("Unable to find and load driver");
        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.

### **IMPLEMENTATION:**

```
package oasf;

import java.awt.EventQueue;

import javax.swing.JFrame;

import javax.swing.SpringLayout;
```

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```
import java.awt.Color;

import javax.swing.JMenuBar;

import javax.swing.JMenu;

import java.awt.CardLayout;

import javax.swing.JMenuItem;

import java.awt.event.ActionListener;

import java.awt.event.ActionEvent;

import javax.swing.JLabel;


public class oasform {

private JFrame frame;

public static void main(String[] args) {

    EventQueue.invokeLater(new Runnable() {

        public void run() {

            try {

                oasform window = new oasform();

                window.getFrame().setVisible(true);

            } catch (Exception e) {

                e.printStackTrace();

            }

        }

    });

}

public oasform() {

    initialize();

}

private void initialize() {

    setFrame(new JFrame());

}
```

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```
getFrame().getContentPane().setBackground(Color.CYAN);

SpringLayout springLayout = new SpringLayout();

getFrame().getContentPane().setLayout(springLayout);

JMenuBar menuBar_1 = new JMenuBar();

springLayout.putConstraint(SpringLayout.NORTH, menuBar_1, 23, SpringLayout.NORTH,
getFrame().getContentPane());

springLayout.putConstraint(SpringLayout.WEST, menuBar_1, 0, SpringLayout.WEST,
getFrame().getContentPane());

getFrame().getContentPane().add(menuBar_1);


JMenu mnResult = new JMenu("Result");

getFrame().getContentPane().add(mnResult);

JMenuItem mntmInsertResult = new JMenuItem("Insert Result");

mnResult.add(mntmInsertResult);

JMenuItem mntmModifyResult = new JMenuItem("Modify Result");

mnResult.add(mntmModifyResult);

JMenuItem mntmDeleteResult = new JMenuItem("Delete Result");

mnResult.add(mntmDeleteResult);

JMenu mnProvideresult_1 = new JMenu("Provide_Result");

springLayout.putConstraint(SpringLayout.WEST, mnProvideresult_1, 15, SpringLayout.EAST,
menuBar_1);

springLayout.putConstraint(SpringLayout.SOUTH, mnProvideresult_1, 0, SpringLayout.SOUTH,
mnResult);

getFrame().getContentPane().add(mnProvideresult_1);

JMenuItem mntmInsertProvideresult_1 = new JMenuItem("Insert Provide_result");

mnProvideresult_1.add(mntmInsertProvideresult_1);

JMenuItem mntmModifyProvideresult_1 = new JMenuItem("Modify Provide_result");

mnProvideresult_1.add(mntmModifyProvideresult_1);

JMenuItem mntmDeleteProvideresult_1 = new JMenuItem("Delete Provide_result");
```



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```
mnProvideresult_1.add(mntmDeleteProvideresult_1);

JLabel lblWelcome = new JLabel("WELCOME");

frame.getContentPane().add(lblWelcome);


JLabel lblTo = new JLabel("TO");

springLayout.putConstraint(SpringLayout.WEST, lblTo, 250, SpringLayout.WEST,
frame.getContentPane());

springLayout.putConstraint(SpringLayout.NORTH, lblWelcome, 0, SpringLayout.NORTH, lblTo);

springLayout.putConstraint(SpringLayout.EAST, lblWelcome, -22, SpringLayout.WEST, lblTo);

frame.getContentPane().add(lblTo);

JLabel lblOnlineAdaptiveAssessment = new JLabel("ONLINE ADAPTIVE ASSESSMENT FEEDBACK
FORM");

springLayout.putConstraint(SpringLayout.SOUTH, lblTo, -6, SpringLayout.NORTH,
lblOnlineAdaptiveAssessment);

springLayout.putConstraint(SpringLayout.NORTH, lblOnlineAdaptiveAssessment, 101,
SpringLayout.NORTH, frame.getContentPane());

springLayout.putConstraint(SpringLayout.EAST, lblOnlineAdaptiveAssessment, -25, SpringLayout.EAST,
frame.getContentPane());

frame.getContentPane().add(lblOnlineAdaptiveAssessment);

getFrame().setBounds(100, 100, 450, 300);

getFrame().setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);


JMenuBar menuBar = new JMenuBar();

getFrame().setJMenuBar(menuBar);

JMenu mnStudents = new JMenu("Students");

menuBar.add(mnStudents);

JMenuItem mntmInsertStudent = new JMenuItem("Insert Student");

mntmInsertStudent.addActionListener(new ActionListener() {

    public void actionPerformed(ActionEvent arg0) {

        try {
```

DBMS PROJECT  
ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM

```
        SUI1 window = new SUI1();

        window.getFrame().setVisible(true);

    } catch (Exception e) {

        e.printStackTrace();

    }

});

mnStudents.add(mntmInsertStudent);

JMenuItem mntmModifyStudent = new JMenuItem("Modify Student");

mnStudents.add(mntmModifyStudent);

JMenuItem mntmDeleteStudent = new JMenuItem("Delete Student");

mnStudents.add(mntmDeleteStudent);

JMenu mnRegister = new JMenu("Register");

menuBar.add(mnRegister);

JMenuItem mntmDeleteRegister = new JMenuItem("Delete Register");

mnRegister.add(mntmDeleteRegister);

JMenuItem mntmModifyRegister = new JMenuItem("Modify Register");

mnRegister.add(mntmModifyRegister);

JMenuItem mntmInsertRegister = new JMenuItem("Insert Register");

mnRegister.add(mntmInsertRegister);

JMenu mnTests = new JMenu("Tests");

menuBar.add(mnTests);

JMenuItem mntmDeleteTest = new JMenuItem("Delete Test");

mnTests.add(mntmDeleteTest);

JMenuItem mntmModifyTest = new JMenuItem("Modify Test");

mnTests.add(mntmModifyTest);

JMenuItem mntmInsertTest = new JMenuItem("Insert Test");

mnTests.add(mntmInsertTest);
```

DBMS PROJECT  
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```
JMenu mnChecks = new JMenu("Checks");

menuBar.add(mnChecks);

JMenuItem mntmDeleteChecks = new JMenuItem("Delete Checks");
mnChecks.add(mntmDeleteChecks);

JMenuItem mntmModifyChecks = new JMenuItem("Modify Checks");
mnChecks.add(mntmModifyChecks);

JMenuItem mntmInsertChecks = new JMenuItem("Insert Checks");
mnChecks.add(mntmInsertChecks);

JMenu mnExaminecell = new JMenu("Examine_cell");
menuBar.add(mnExaminecell);

JMenuItem mntmModifyExaminecell = new JMenuItem("Modify Examine_Cell");
mnExaminecell.add(mntmModifyExaminecell);

JMenuItem mntmInsertExaminecell = new JMenuItem("Insert Examine_cell");
mnExaminecell.add(mntmInsertExaminecell);

JMenuItem mntmDeleteExaminecell = new JMenuItem("Delete Examine_cell");
mnExaminecell.add(mntmDeleteExaminecell);

JMenu mnProvideresult = new JMenu("provide_result");
menuBar.add(mnProvideresult);

JMenuItem mntmInsertProvideresult = new JMenuItem("Insert Provide_result");
mnProvideresult.add(mntmInsertProvideresult);

JMenuItem mntmDeleteProvideresult = new JMenuItem("Delete Provide_result");
mnProvideresult.add(mntmDeleteProvideresult);

JMenuItem mntmModifyProvideresult = new JMenuItem("Modify Provide_result");
mnProvideresult.add(mntmModifyProvideresult);

}

public JFrame getFrame() {

    return frame;
}
```

DBMS PROJECT  
ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM

```
    }  
  
    public void setFrame(JFrame frame) {  
        this.frame = frame;  
    }  
}
```

STUDENT\_S TABLE GUI:

```
package oasf;  
  
import java.awt.EventQueue;  
  
import java.awt.*;  
  
import java.awt.event.*;  
  
import java.sql.*;  
  
import javax.swing.JFrame;  
  
import java.awt.CardLayout;  
  
import javax.swing.SpringLayout;  
  
import java.awt.Color;  
  
import javax.swing.JFormattedTextField;  
  
import javax.swing.JLabel;  
  
import javax.swing.JTextField;  
  
import javax.swing.JToggleButton;  
  
public class SUI1 {  
    private JFrame frame;  
    private JTextField t1;  
    private JTextField t2;  
    private JTextField t3;  
    private JTextField t4;  
    private JTextField t5;  
    private JTextField t6;
```

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```
Connection connection;

Statement statement;

public static void main(String[] args) {

    EventQueue.invokeLater(new Runnable() {

        public void run() {

            try {

                SUI1 window = new SUI1();

                window.getFrame().setVisible(true);

            } catch (Exception e) {

                e.printStackTrace();

            }

        }

    });

}

public SUI1() {

    initialize();

    try

    {

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

    }

    catch (Exception e)

    {

        System.err.println("Unable to find and load driver");

        System.exit(1);

    }

    connectToDB();

}
```

DBMS PROJECT  
ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM

```
public void connectToDB()
{
    try
    {
        connection = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","vyuha","vasavi");
        statement = connection.createStatement();

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

private void initialize() {
    setFrame(new JFrame());

    setFrame().getContentPane().setBackground(Color.PINK);

    SpringLayout springLayout = new SpringLayout();
    setFrame().getContentPane().setLayout(springLayout);

    JFormattedTextField ta = new JFormattedTextField();

    springLayout.putConstraint(SpringLayout.NORTH, ta, -44, SpringLayout.SOUTH,
    setFrame().getContentPane());

    springLayout.putConstraint(SpringLayout.WEST, ta, -153, SpringLayout.EAST,
    setFrame().getContentPane());
```

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```
springLayout.putConstraint(SpringLayout.SOUTH, ta, 0, SpringLayout.SOUTH,
getFrame().getContentPane());

springLayout.putConstraint(SpringLayout.EAST, ta, -34, SpringLayout.EAST,
getFrame().getContentPane());

getFrame().getContentPane().add(ta);

JLabel lblStuden = new JLabel("Student id:");
getFrame().getContentPane().add(lblStuden);

JLabel lblStudentName = new JLabel("Student Name:");
springLayout.putConstraint(SpringLayout.EAST, lblStuden, 0, SpringLayout.EAST, lblStudentName);
getFrame().getContentPane().add(lblStudentName);

JLabel lblContact = new JLabel("Contact:");
springLayout.putConstraint(SpringLayout.SOUTH, lblStudentName, -6, SpringLayout.NORTH,
lblContact);
getFrame().getContentPane().add(lblContact);

JLabel lblEmail = new JLabel("Email:");
springLayout.putConstraint(SpringLayout.SOUTH, lblContact, -6, SpringLayout.NORTH, lblEmail);
getFrame().getContentPane().add(lblEmail);

JLabel lblCourse = new JLabel("Course:");
getFrame().getContentPane().add(lblCourse);

JLabel lblGender = new JLabel("Gender:");
springLayout.putConstraint(SpringLayout.WEST, lblEmail, 0, SpringLayout.WEST, lblGender);
springLayout.putConstraint(SpringLayout.NORTH, lblGender, 163, SpringLayout.NORTH,
getFrame().getContentPane());
```

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```
springLayout.putConstraint(SpringLayout.SOUTH, lblCourse, -6, SpringLayout.NORTH, lblGender);

getFrame().getContentPane().add(lblGender);


t1 = new JTextField();

springLayout.putConstraint(SpringLayout.NORTH, t1, 10, SpringLayout.NORTH,
getFrame().getContentPane());

springLayout.putConstraint(SpringLayout.NORTH, lblStuden, 3, SpringLayout.NORTH, t1);

springLayout.putConstraint(SpringLayout.EAST, t1, -34, SpringLayout.EAST,
getFrame().getContentPane());

getFrame().getContentPane().add(t1);

t1.setColumns(10);


t2 = new JTextField();

springLayout.putConstraint(SpringLayout.EAST, lblStudentName, -8, SpringLayout.WEST, t2);

springLayout.putConstraint(SpringLayout.NORTH, t2, 6, SpringLayout.SOUTH, t1);

springLayout.putConstraint(SpringLayout.EAST, t2, -34, SpringLayout.EAST,
getFrame().getContentPane());

getFrame().getContentPane().add(t2);

t2.setColumns(10);


t3 = new JTextField();

springLayout.putConstraint(SpringLayout.EAST, lblContact, -8, SpringLayout.WEST, t3);

springLayout.putConstraint(SpringLayout.WEST, t3, 0, SpringLayout.WEST, t1);

getFrame().getContentPane().add(t3);

t3.setColumns(10);


t4 = new JTextField();

springLayout.putConstraint(SpringLayout.WEST, t4, 18, SpringLayout.EAST, lblEmain);

springLayout.putConstraint(SpringLayout.NORTH, lblEmain, 3, SpringLayout.NORTH, t4);
```



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```
springLayout.putConstraint(SpringLayout.SOUTH, t3, -2, SpringLayout.NORTH, t4);

getFrame().getContentPane().add(t4);

t4.setColumns(10);


t5 = new JTextField();

springLayout.putConstraint(SpringLayout.EAST, lblCourse, -12, SpringLayout.WEST, t5);

springLayout.putConstraint(SpringLayout.NORTH, t5, 134, SpringLayout.NORTH,
getFrame().getContentPane());

springLayout.putConstraint(SpringLayout.EAST, t5, -34, SpringLayout.EAST,
getFrame().getContentPane());

springLayout.putConstraint(SpringLayout.SOUTH, t4, -6, SpringLayout.NORTH, t5);

getFrame().getContentPane().add(t5);

t5.setColumns(10);


t6 = new JTextField();

springLayout.putConstraint(SpringLayout.EAST, lblGender, -8, SpringLayout.WEST, t6);

springLayout.putConstraint(SpringLayout.NORTH, t6, 0, SpringLayout.NORTH, lblGender);

springLayout.putConstraint(SpringLayout.EAST, t6, 0, SpringLayout.EAST, ta);

getFrame().getContentPane().add(t6);

t6.setColumns(10);


JToggleButton tglbtnInsert = new JToggleButton("Insert");

tglbtnInsert.addActionListener(new ActionListener() {

    public void actionPerformed(ActionEvent arg0) {

        try

        {

            Statement statement = connection.createStatement();

            //insert into students values(1,5,3);
```

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```
String query= "INSERT INTO STUDENT_S VALUES(" + t1.getText() + ","
+t2.getText()+ "," +t3.getText() + "," + t4.getText() + "," + t5.getText() + ","+t6.getText()+")";

int i = statement.executeUpdate(query);

ta.setText("\nInserted " + i + " rows successfully");

}

catch (SQLException e)

{

    ta.setText(e.getMessage());

    ta.setText("SQLState:  " + e.getSQLState() + "\n");

    ta.setText("VendorError: " + e.getErrorCode() + "\n");

}

}

});

springLayout.putConstraint(SpringLayout.NORTH, tbltnInsert, 0, SpringLayout.NORTH, lblGender);

springLayout.putConstraint(SpringLayout.WEST, tbltnInsert, 10, SpringLayout.WEST,
getFrame().getContentPane());

getFrame().getContentPane().add(tbltnInsert);


JToggleButton tbltnBack = new JToggleButton("Back");

tbltnBack.addActionListener(new ActionListener() {

    public void actionPerformed(ActionEvent arg0) {

        try {

            oasform window = new oasform();

            window.getFrame().setVisible(true);

        } catch (Exception e) {

            e.printStackTrace();

        }

    }

});
```

DBMS PROJECT  
ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM

```
        springLayout.putConstraint(SpringLayout.SOUTH, tglbtnBack, -10, SpringLayout.SOUTH,
getFrame().getContentPane());

        springLayout.putConstraint(SpringLayout.EAST, tglbtnBack, 0, SpringLayout.EAST, lblEmain);

        getFrame().getContentPane().add(tglbtnBack);

        getFrame().setBounds(100, 100, 450, 300);

        getFrame().setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

    }

    public JFrame getFrame() {

        return frame;

    }

    public void setFrame(JFrame frame) {

        this.frame = frame;

    }

}
```

DELETE:

```
package oasf;

import java.awt.EventQueue;

import java.awt.*;
import java.awt.event.*;
import java.sql.*;
import java.time.LocalDateTime;
import java.time.format.DateTimeFormatter;

import javax.swing.JFrame;
import java.awt.CardLayout;
```

DBMS PROJECT  
ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM

```
import javax.swing.SpringLayout;

import java.awt.Color;

import java.awt.TextArea;

import java.awt.List;

import javax.swing.JLabel;

import javax.swing.JTextField;

import javax.swing.JToggleButton;


public class SDELETE {

    List list = new List(10);

    TextArea ftf;

    private JFrame frame;

    private JTextField t1;

    private JTextField t2;

    private JTextField t3;

    Connection connection;

    Statement statement;

    ResultSet rs;

    private JTextField t4;

    private JTextField t5;


    private JTextField t6;


    public static void main(String[] args) {

        EventQueue.invokeLater(new Runnable() {

            public void run() {
```

DBMS PROJECT  
ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM

```
        try {

            SDELETE window = new SDELETE();

            window.getFrame().setVisible(true);

        } catch (Exception e) {

            e.printStackTrace();

        }

    }

});

}

public SDELETE() {

    try

    {

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

    }

    catch (Exception e)

    {

        System.err.println("Unable to find and load driver");

        System.exit(1);

    }

    connectToDB();

    initialize();

}

private void connectToDB() {

    // TODO Auto-generated method stub

    try

    {

        connection = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","vyuha","vasavi");
```

DBMS PROJECT  
ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM

```
        statement = connection.createStatement();

    }

    catch (SQLException connectException)

    {

        System.out.println(connectException.getMessage());

        System.out.println(connectException.getSQLState());

        System.out.println(connectException.getErrorCode());

        System.exit(1);

    }

}

private void loadList()

{

    try

    {

        rs = statement.executeQuery("SELECT SID FROM STUDENT_S");

        while (rs.next())

        {

            list.add(rs.getString("SID"));

        }

    }

    catch (SQLException e)

    {

        ftf.append(e.getMessage());

    }

}
```

DBMS PROJECT  
ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM

```
/**
 * Initialize the contents of the frame.
 */

private void initialize() {

    setFrame(new JFrame());

    setFrame().getContentPane().setBackground(Color.PINK);

    setFrame().setBounds(100, 100, 450, 300);

    setFrame().setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

    SpringLayout springLayout = new SpringLayout();

    springLayout.putConstraint(SpringLayout.WEST, list, 0, SpringLayout.WEST, frame.getContentPane());

    setFrame().getContentPane().setLayout(springLayout);


    TextArea ftf = new TextArea();

    springLayout.putConstraint(SpringLayout.NORTH, ftf, -61, SpringLayout.SOUTH,
frame.getContentPane());

    springLayout.putConstraint(SpringLayout.WEST, ftf, 220, SpringLayout.WEST, frame.getContentPane());

    springLayout.putConstraint(SpringLayout.SOUTH, ftf, 0, SpringLayout.SOUTH, frame.getContentPane());

    springLayout.putConstraint(SpringLayout.EAST, ftf, -10, SpringLayout.EAST, frame.getContentPane());

    setFrame().getContentPane().add(ftf);

    loadList();

    list.addItemListener(new ItemListener() {

        public void itemStateChanged(ItemEvent arg0) {

            try

            {

                rs = statement.executeQuery("SELECT * FROM STUDENT_S where SID
="+list.getSelectedItem());

                rs.next();

                t1.setText(rs.getString("SID"));
```

DBMS PROJECT  
ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM

```
        t2.setText(rs.getString("SNAME"));

        t3.setText(rs.getString("PHNNUM"));

        t4.setText(rs.getString("EMAIL"));

        t5.setText(rs.getString("COURSE"));

        t6.setText(rs.getString("GENDER"));

    }

    catch (SQLException selectException)

    {

        ftf.append(selectException.getMessage());

    }

}

});

getFrame().getContentPane().add(list);

JLabel lblFid = new JLabel("sid");

springLayout.putConstraint(SpringLayout.WEST, lblFid, 37, SpringLayout.EAST, list);

getFrame().getContentPane().add(lblFid);

JLabel lblSuggestions = new JLabel("sname");

springLayout.putConstraint(SpringLayout.NORTH, lblSuggestions, 6, SpringLayout.SOUTH, lblFid);

springLayout.putConstraint(SpringLayout.WEST, lblSuggestions, 14, SpringLayout.EAST, list);

getFrame().getContentPane().add(lblSuggestions);

JLabel lblComplaints = new JLabel("pnun");

springLayout.putConstraint(SpringLayout.NORTH, lblComplaints, 6, SpringLayout.SOUTH,
lblSuggestions);
```



DBMS PROJECT  
ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM

```
springLayout.putConstraint(SpringLayout.EAST, lblComplaints, 0, SpringLayout.EAST, lblFid);

getFrame().getContentPane().add(lblComplaints);


t1 = new JTextField();

springLayout.putConstraint(SpringLayout.WEST, t1, 9, SpringLayout.EAST, lblFid);

springLayout.putConstraint(SpringLayout.NORTH, lblFid, 3, SpringLayout.NORTH, t1);

springLayout.putConstraint(SpringLayout.NORTH, t1, 10, SpringLayout.NORTH,
frame.getContentPane());

getFrame().getContentPane().add(t1);

t1.setColumns(10);


t2 = new JTextField();

springLayout.putConstraint(SpringLayout.NORTH, t2, -3, SpringLayout.NORTH, lblSuggestions);

springLayout.putConstraint(SpringLayout.WEST, t2, 6, SpringLayout.EAST, lblSuggestions);

getFrame().getContentPane().add(t2);

t2.setColumns(10);


t3 = new JTextField();

springLayout.putConstraint(SpringLayout.NORTH, t3, -3, SpringLayout.NORTH, lblComplaints);

springLayout.putConstraint(SpringLayout.WEST, t3, 0, SpringLayout.WEST, t1);

t3.addActionListener(new ActionListener() {

    public void actionPerformed(ActionEvent e) {

        DateTimeFormatter dtf = DateTimeFormatter.ofPattern("yyyy/MM/dd HH:mm:ss");

        LocalDateTime now = LocalDateTime.now();

        t3.setText(dtf.format(now));

    }

});

getFrame().getContentPane().add(t3);
```

DBMS PROJECT  
ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM

```
t3.setColumns(10);

JToggleButton tglbtnUpdate = new JToggleButton("DELETE");

springLayout.putConstraint(SpringLayout.SOUTH, tglbtnUpdate, -10, SpringLayout.SOUTH,
frame.getContentPane());

springLayout.putConstraint(SpringLayout.SOUTH, list, -6, SpringLayout.NORTH, tglbtnUpdate);

springLayout.putConstraint(SpringLayout.WEST, tglbtnUpdate, 0, SpringLayout.WEST,
getFrame().getContentPane());

tglbtnUpdate.addActionListener(new ActionListener() {

    public void actionPerformed(ActionEvent e) {

        try
        {

            Statement statement = connection.createStatement();

            int i = statement.executeUpdate("DELETE FROM STUDENT_S WHERE SID

= "

+ list.getSelectedItem());

            ftf.append("\nDeleted " + i + " rows successfully");

            t1.setText(null);

            t2.setText(null);

            t3.setText(null);

            t4.setText(null);

            t5.setText(null);

            t6.setText(null);

            list.removeAll();

            loadList();

        }

        catch (SQLException insertException)

        {
```

DBMS PROJECT  
ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM

```
        ftf.append(insertException.getMessage());
    }

}

});

getFrame().getContentPane().add(tglbtnUpdate);

JToggleButton tglbtnBack = new JToggleButton("BACK");

springLayout.putConstraint(SpringLayout.EAST, tglbtnBack, -30, SpringLayout.WEST, ftf);

tglbtnBack.addActionListener(new ActionListener() {

    public void actionPerformed(ActionEvent e) {

        try {

            oasform window = new oasform();

            (window).getFrame().setVisible(true);

        } catch (Exception es) {

            es.printStackTrace();

        }

    }

});

springLayout.putConstraint(SpringLayout.SOUTH, tglbtnBack, -10, SpringLayout.SOUTH,
getFrame().getContentPane());

getFrame().getContentPane().add(tglbtnBack);

JLabel label = new JLabel("");

springLayout.putConstraint(SpringLayout.NORTH, label, 6, SpringLayout.SOUTH, lblComplaints);

springLayout.putConstraint(SpringLayout.WEST, label, 14, SpringLayout.EAST, list);

frame.getContentPane().add(label);
```

DBMS PROJECT  
ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM

```
JLabel label_1 = new JLabel("");

springLayout.putConstraint(SpringLayout.NORTH, label_1, 16, SpringLayout.SOUTH, t3);

springLayout.putConstraint(SpringLayout.WEST, label_1, 17, SpringLayout.EAST, list);

frame.getContentPane().add(label_1);


JLabel lblNewLabel = new JLabel("");

frame.getContentPane().add(lblNewLabel);


JLabel lblEmail = new JLabel("email");

springLayout.putConstraint(SpringLayout.NORTH, lblEmail, 6, SpringLayout.SOUTH, lblComplaints);

springLayout.putConstraint(SpringLayout.EAST, lblEmail, 0, SpringLayout.EAST, lblFid);

frame.getContentPane().add(lblEmail);


JLabel lblCourse = new JLabel("course");

springLayout.putConstraint(SpringLayout.EAST, lblCourse, 0, SpringLayout.EAST, lblSuggestions);

frame.getContentPane().add(lblCourse);


JLabel lblGender = new JLabel("gender");

springLayout.putConstraint(SpringLayout.WEST, lblGender, 14, SpringLayout.EAST, list);

springLayout.putConstraint(SpringLayout.SOUTH, lblCourse, -6, SpringLayout.NORTH, lblGender);

frame.getContentPane().add(lblGender);


t4 = new JTextField();

springLayout.putConstraint(SpringLayout.NORTH, t4, 2, SpringLayout.SOUTH, t3);

springLayout.putConstraint(SpringLayout.EAST, t4, 0, SpringLayout.EAST, t1);

frame.getContentPane().add(t4);

t4.setColumns(10);
```

DBMS PROJECT  
ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM

```
t5 = new JTextField();

springLayout.putConstraint(SpringLayout.NORTH, t5, 122, SpringLayout.NORTH,
frame.getContentPane());

springLayout.putConstraint(SpringLayout.EAST, t5, 0, SpringLayout.EAST, t1);

frame.getContentPane().add(t5);

t5.setColumns(10);


t6 = new JTextField();

springLayout.putConstraint(SpringLayout.NORTH, lblGender, 3, SpringLayout.NORTH, t6);

springLayout.putConstraint(SpringLayout.NORTH, t6, 6, SpringLayout.SOUTH, t5);

springLayout.putConstraint(SpringLayout.EAST, t6, 0, SpringLayout.EAST, t1);

frame.getContentPane().add(t6);

t6.setColumns(10);

}

public JFrame getFrame() {

    return frame;

}

public void setFrame(JFrame frame) {

    this.frame = frame;

}

}
```

MODIFY:

```
package oasf;

import java.awt.EventQueue;

import java.awt.*;
```

DBMS PROJECT  
ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM

```
import java.awt.event.*;
import java.sql.*;
import java.time.LocalDateTime;
import java.time.format.DateTimeFormatter;
```

```
import javax.swing.JFrame;
import java.awt.CardLayout;
import javax.swing.SpringLayout;
import java.awt.Color;
import java.awt.TextArea;
import java.awt.List;
import javax.swing.JLabel;
import javax.swing.JTextField;
import javax.swing.JToggleButton;
```

```
public class SVIEW{

    List list = new List(10);
    TextArea ftf;
    private JFrame frame;
    private JTextField t1;
    private JTextField t2;
    private JTextField t3;
    Connection connection;
    Statement statement;
    ResultSet rs;
    private JTextField t4;
    private JTextField t5;
```

DBMS PROJECT  
ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM

```
private JTextField t6;

public static void main(String[] args) {
    EventQueue.invokeLater(new Runnable() {
        public void run() {
            try {
                SVIEW window = new SVIEW();
                window.getFrame().setVisible(true);
            } catch (Exception e) {
                e.printStackTrace();
            }
        }
    });
}

public SVIEW() {
    try
    {
        Class.forName("oracle.jdbc.driver.OracleDriver");
    }
    catch (Exception e)
    {
        System.err.println("Unable to find and load driver");
        System.exit(1);
    }
    connectToDB();
    initialize();
}
```

DBMS PROJECT  
ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM

```
    }

    private void connectToDB() {

        // TODO Auto-generated method stub

        try
        {

            connection = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","vyuha","vasavi");

            statement = connection.createStatement();

        }

        catch (SQLException connectException)

        {

            System.out.println(connectException.getMessage());

            System.out.println(connectException.getSQLState());

            System.out.println(connectException.getErrorCode());

            System.exit(1);

        }

    }

    private void loadList()

    {

        try

        {

            rs = statement.executeQuery("SELECT SID FROM STUDENT_S");

            while (rs.next())

            {

                list.add(rs.getString("SID"));

            }

        }

    }

}
```



DBMS PROJECT  
ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM

```
        catch (SQLException e)

        {

            ftf.append(e.getMessage());

        }

    }

/**

 * Initialize the contents of the frame.

 */

private void initialize() {

    setFrame(new JFrame());

    getFrame().getContentPane().setBackground(Color.PINK);

    getFrame().setBounds(100, 100, 450, 300);

    getFrame().setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

    SpringLayout springLayout = new SpringLayout();

    springLayout.putConstraint(SpringLayout.WEST, list, 0, SpringLayout.WEST, frame.getContentPane());

    getFrame().getContentPane().setLayout(springLayout);

    TextArea ftf = new TextArea();

    springLayout.putConstraint(SpringLayout.NORTH, ftf, -61, SpringLayout.SOUTH,

frame.getContentPane());

    springLayout.putConstraint(SpringLayout.WEST, ftf, 220, SpringLayout.WEST, frame.getContentPane());

    springLayout.putConstraint(SpringLayout.SOUTH, ftf, 0, SpringLayout.SOUTH, frame.getContentPane());

    springLayout.putConstraint(SpringLayout.EAST, ftf, -10, SpringLayout.EAST, frame.getContentPane());

    getFrame().getContentPane().add(fft);

    loadList();

}
```

DBMS PROJECT  
ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM

```
list.addItemListener(new ItemListener() {  
    public void itemStateChanged(ItemEvent arg0) {  
        try  
        {  
            rs = statement.executeQuery("SELECT * FROM STUDENT_S where SID  
=" + list.getSelectedItem());  
            rs.next();  
            t1.setText(rs.getString("SID"));  
            t2.setText(rs.getString("SNAME"));  
            t3.setText(rs.getString("PHNNUM"));  
            t4.setText(rs.getString("EMAIL"));  
            t5.setText(rs.getString("COURSE"));  
            t6.setText(rs.getString("GENDER"));  
        }  
        catch (SQLException selectException)  
        {  
            ftf.append(selectException.getMessage());  
        }  
    }  
});  
getFrame().getContentPane().add(list);  
  
JLabel lblFid = new JLabel("sid");  
springLayout.putConstraint(SpringLayout.WEST, lblFid, 37, SpringLayout.EAST, list);  
getFrame().getContentPane().add(lblFid);
```

DBMS PROJECT  
ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM

```
JLabel lblSuggestions = new JLabel("sname");

springLayout.putConstraint(SpringLayout.NORTH, lblSuggestions, 6, SpringLayout.SOUTH, lblFid);

springLayout.putConstraint(SpringLayout.WEST, lblSuggestions, 14, SpringLayout.EAST, list);

getFrame().getContentPane().add(lblSuggestions);


JLabel lblComplaints = new JLabel("pnum");

springLayout.putConstraint(SpringLayout.NORTH, lblComplaints, 6, SpringLayout.SOUTH,
lblSuggestions);

springLayout.putConstraint(SpringLayout.EAST, lblComplaints, 0, SpringLayout.EAST, lblFid);

getFrame().getContentPane().add(lblComplaints);


t1 = new JTextField();

springLayout.putConstraint(SpringLayout.WEST, t1, 9, SpringLayout.EAST, lblFid);

springLayout.putConstraint(SpringLayout.NORTH, lblFid, 3, SpringLayout.NORTH, t1);

springLayout.putConstraint(SpringLayout.NORTH, t1, 10, SpringLayout.NORTH,
frame.getContentPane());

getFrame().getContentPane().add(t1);

t1.setColumns(10);


t2 = new JTextField();

springLayout.putConstraint(SpringLayout.NORTH, t2, -3, SpringLayout.NORTH, lblSuggestions);

springLayout.putConstraint(SpringLayout.WEST, t2, 6, SpringLayout.EAST, lblSuggestions);

getFrame().getContentPane().add(t2);

t2.setColumns(10);


t3 = new JTextField();

springLayout.putConstraint(SpringLayout.NORTH, t3, -3, SpringLayout.NORTH, lblComplaints);

springLayout.putConstraint(SpringLayout.WEST, t3, 0, SpringLayout.WEST, t1);

t3.addActionListener(new ActionListener() {
```

DBMS PROJECT  
ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM

```
        public void actionPerformed(ActionEvent e) {

            DateTimeFormatter dtf = DateTimeFormatter.ofPattern("yyyy/MM/dd HH:mm:ss");

            LocalDateTime now = LocalDateTime.now();

            t3.setText(dtf.format(now));

        }

    });

    getFrame().getContentPane().add(t3);

    t3.setColumns(10);

    JToggleButton tglbtnUpdate = new JToggleButton("MODIFY");

    springLayout.putConstraint(SpringLayout.SOUTH, tglbtnUpdate, -10, SpringLayout.SOUTH,
frame.getContentPane());

    springLayout.putConstraint(SpringLayout.SOUTH, list, -6, SpringLayout.NORTH, tglbtnUpdate);

    springLayout.putConstraint(SpringLayout.WEST, tglbtnUpdate, 0, SpringLayout.WEST,
getFrame().getContentPane());

    tglbtnUpdate.addActionListener(new ActionListener() {

        public void actionPerformed(ActionEvent e) {

            try

            {

                Statement statement = connection.createStatement();

                int i = statement.executeUpdate("UPDATE STUDENT_S "

                + "SET SNAME=" + t2.getText() + ", "

                + "SET PHNNUM = " + t3.getText()+", "

                + " SET EMAIL=" + t4.getText()+", "

                + "SET COURSE =" + t5.getText()+", "

                + "SET GENDER =" + t6.getText() + " WHERE SID = "
```

DBMS PROJECT  
ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM

```
        + list.getSelectedItem());

        ftf.append("\nUpdated " + i + " rows successfully");

        list.removeAll();

        loadList();

    }

    catch (SQLException insertException)

    {

        ftf.append(insertException.getMessage());

    }

}

});

getFrame().getContentPane().add(tglbtnUpdate);

JToggleButton tglbtnBack = new JToggleButton("BACK");

springLayout.putConstraint(SpringLayout.EAST, tglbtnBack, -30, SpringLayout.WEST, ftf);

tglbtnBack.addActionListener(new ActionListener() {

    public void actionPerformed(ActionEvent e) {

        try {

            oasform window = new oasform();

            (window).getFrame().setVisible(true);

        } catch (Exception es) {

            es.printStackTrace();

        }

    }

});
```

DBMS PROJECT  
ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM

```
        }

    });

    springLayout.putConstraint(SpringLayout.SOUTH, tglbtnBack, -10, SpringLayout.SOUTH,
getFrame().getContentPane());

    getFrame().getContentPane().add(tglbtnBack);

    JLabel label = new JLabel("");

    springLayout.putConstraint(SpringLayout.NORTH, label, 6, SpringLayout.SOUTH, lblComplaints);
    springLayout.putConstraint(SpringLayout.WEST, label, 14, SpringLayout.EAST, list);
    frame.getContentPane().add(label);

    JLabel label_1 = new JLabel("");

    springLayout.putConstraint(SpringLayout.NORTH, label_1, 16, SpringLayout.SOUTH, t3);
    springLayout.putConstraint(SpringLayout.WEST, label_1, 17, SpringLayout.EAST, list);
    frame.getContentPane().add(label_1);

    JLabel lblNewLabel = new JLabel("");

    frame.getContentPane().add(lblNewLabel);

    JLabel lblEmail = new JLabel("email");

    springLayout.putConstraint(SpringLayout.NORTH, lblEmail, 6, SpringLayout.SOUTH, lblComplaints);
    springLayout.putConstraint(SpringLayout.EAST, lblEmail, 0, SpringLayout.EAST, lblFid);
    frame.getContentPane().add(lblEmail);

    JLabel lblCourse = new JLabel("course");

    springLayout.putConstraint(SpringLayout.EAST, lblCourse, 0, SpringLayout.EAST, lblSuggestions);
    frame.getContentPane().add(lblCourse);

    JLabel lblGender = new JLabel("gender");
```

DBMS PROJECT  
ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM

```
springLayout.putConstraint(SpringLayout.WEST, lblGender, 14, SpringLayout.EAST, list);

springLayout.putConstraint(SpringLayout.SOUTH, lblCourse, -6, SpringLayout.NORTH, lblGender);

frame.getContentPane().add(lblGender);

t4 = new JTextField();

springLayout.putConstraint(SpringLayout.NORTH, t4, 2, SpringLayout.SOUTH, t3);

springLayout.putConstraint(SpringLayout.EAST, t4, 0, SpringLayout.EAST, t1);

frame.getContentPane().add(t4);

t4.setColumns(10);

t5 = new JTextField();

springLayout.putConstraint(SpringLayout.NORTH, t5, 122, SpringLayout.NORTH,
frame.getContentPane());

springLayout.putConstraint(SpringLayout.EAST, t5, 0, SpringLayout.EAST, t1);

frame.getContentPane().add(t5);

t5.setColumns(10);

t6 = new JTextField();

springLayout.putConstraint(SpringLayout.NORTH, lblGender, 3, SpringLayout.NORTH, t6);

springLayout.putConstraint(SpringLayout.NORTH, t6, 6, SpringLayout.SOUTH, t5);

springLayout.putConstraint(SpringLayout.EAST, t6, 0, SpringLayout.EAST, t1);

frame.getContentPane().add(t6);

t6.setColumns(10);

}

public JFrame getFrame() {

    return frame;

}

public void setFrame(JFrame frame) {

    this.frame = frame;

}

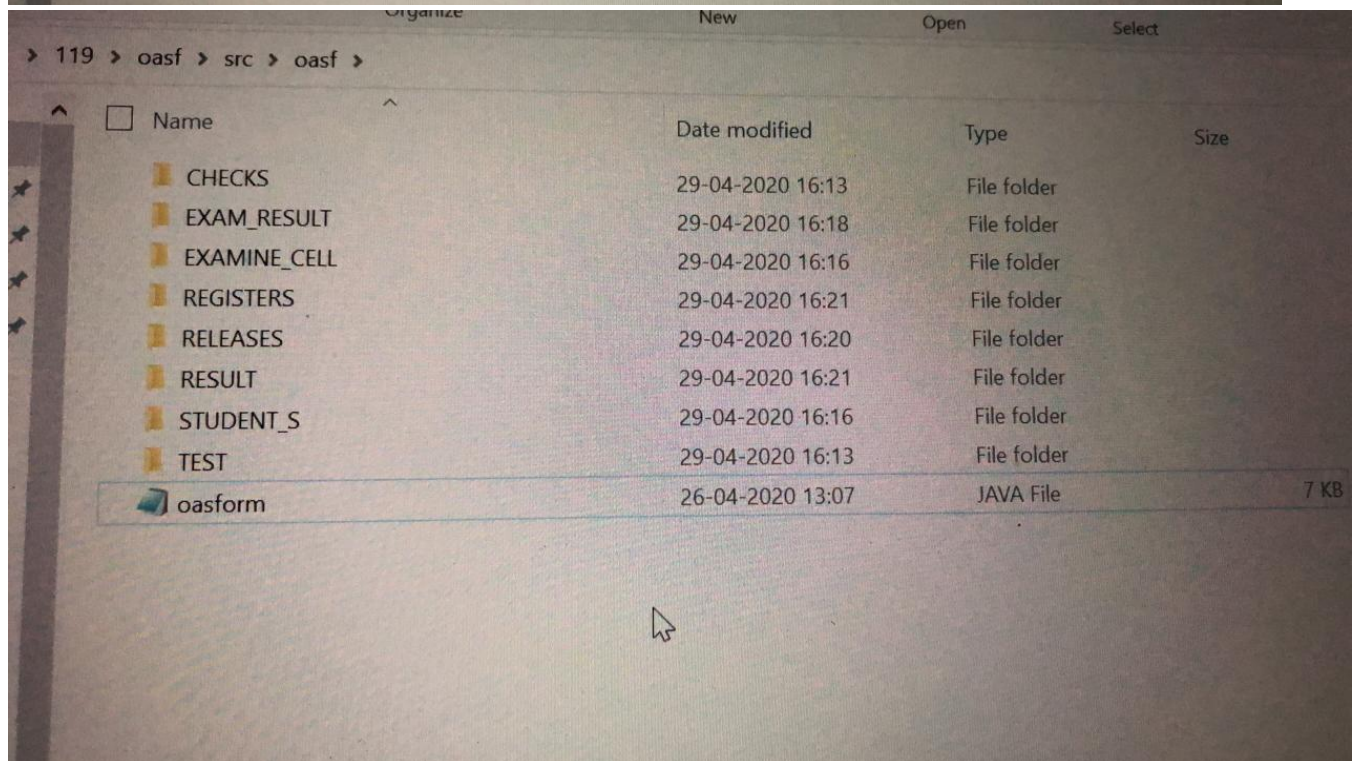
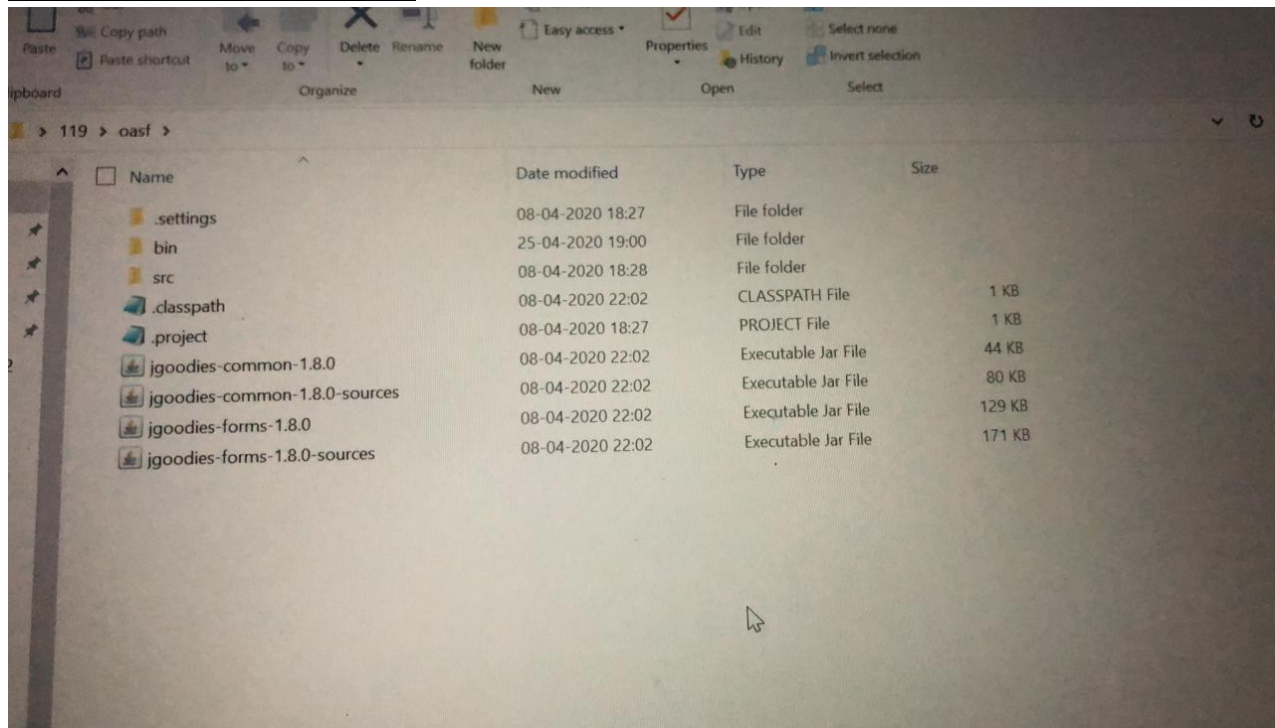
}
```

DBMS PROJECT  
ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM

**GITHUB LINK:**

<https://github.com/vyuhakandula/dbms>

**FOLDER STRUCTURE:**

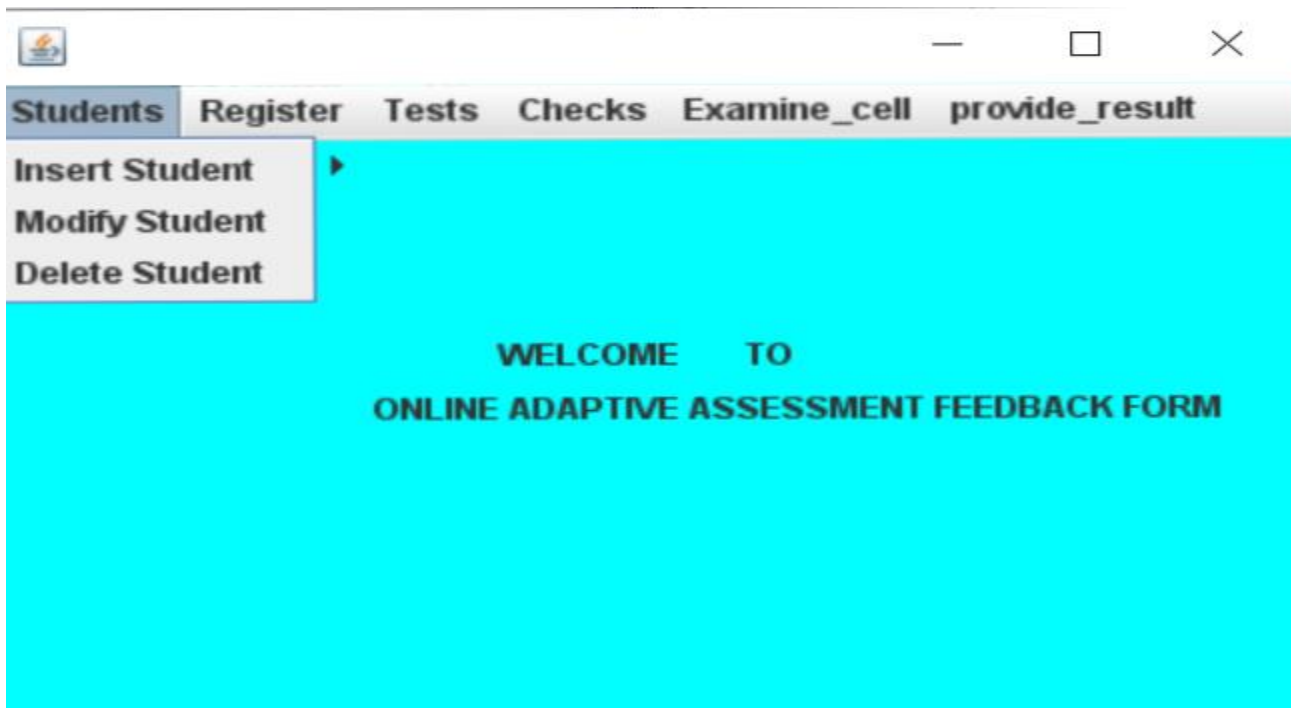




DBMS PROJECT  
ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM

OUTPUT SCREENSHOTS OF GUI:

MAIN GUI:



STUDENT\_S TABLE GUI:

INSERT:

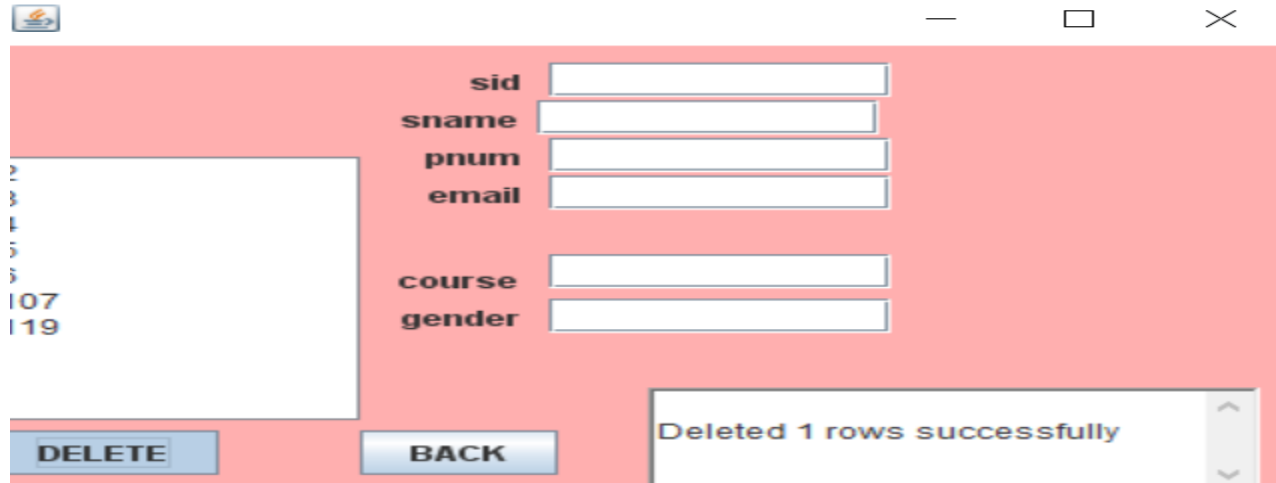
A screenshot of a Java Swing window titled "STUDENT\_S TABLE GUI". The window has a pink background. It contains several input fields for student information: "Student id:" with value "1", "Student Name:" with value "vyuha", "Contact:" with value "9441133198", "Email:" with value "vyu@gmail.com", "Course:" with value "cse", and "Gender:" with value "f". There is an "Insert" button on the left side and a "Back" button at the bottom center. At the bottom right, there is a status bar that says "1 rows successfully".

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**DELETE GUI:**

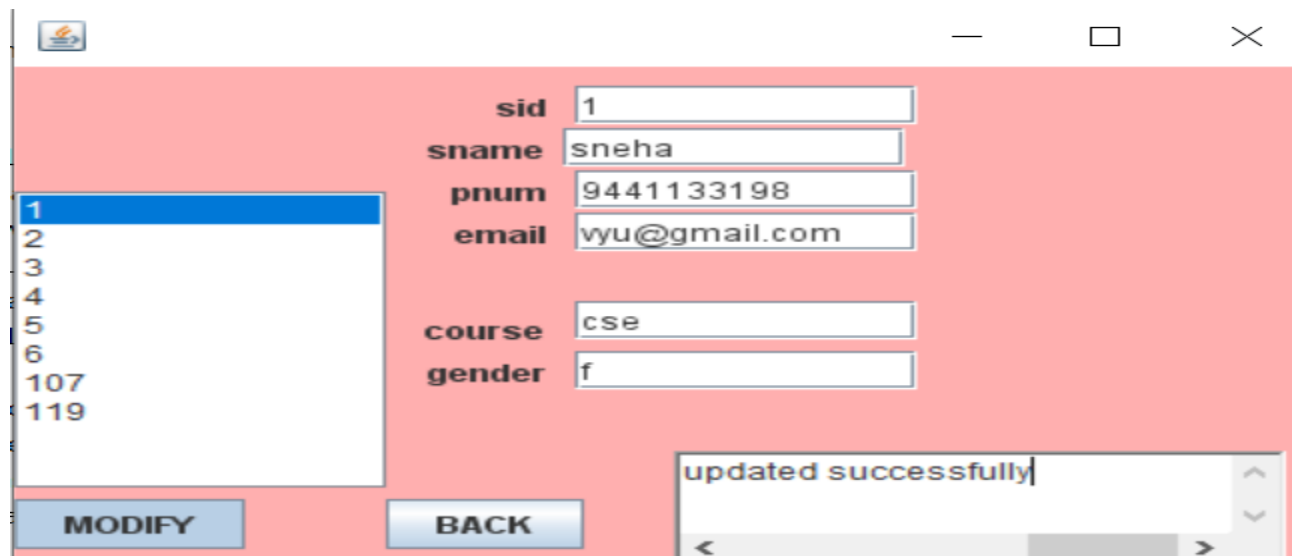
The screenshot shows a Java Swing window titled "DELETE GUI". The window has a pink background and standard window controls (minimize, maximize, close) in the title bar. On the left side, there is a list box containing numbers from 1 to 119, with the number "1" selected and highlighted in blue. To the right of the list box, there are several text input fields with labels: "sid" (value: 1), "sname" (value: vyuha), "pnum" (value: 9441133198), "email" (value: vyu@gmail.com), "course" (value: cse), and "gender" (value: f). At the bottom left of the window, there are two buttons: "DELETE" and "BACK". A scroll bar is visible on the right side of the window, indicating that the list box can be scrolled.

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A screenshot of a web application window titled "DELETE". The window has a red background. On the left, there is a list box containing the numbers 2, 3, 4, 5, 6, 107, and 119. To the right of the list box, there are input fields for the following fields: sid, sname, pnum, email, course, and gender. Below the list box, there is a "DELETE" button. To the right of the "DELETE" button, there is a "BACK" button. At the bottom right, there is a message box that says "Deleted 1 rows successfully".

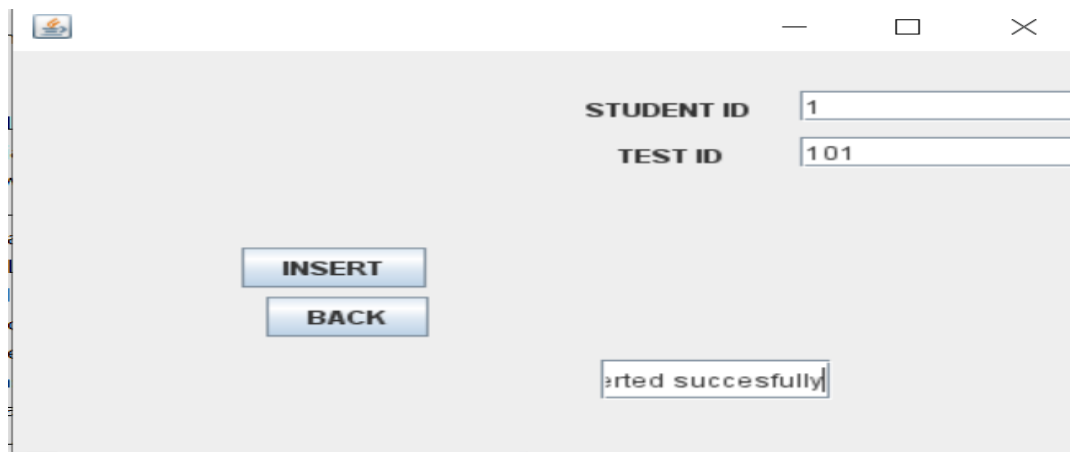
MODIFY GUI:



A screenshot of a web application window titled "MODIFY". The window has a red background. On the left, there is a list box containing the numbers 1, 2, 3, 4, 5, 6, 107, and 119. The number 1 is selected. To the right of the list box, there are input fields for the following fields: sid, sname, pnum, email, course, and gender. Below the list box, there is a "MODIFY" button. To the right of the "MODIFY" button, there is a "BACK" button. At the bottom right, there is a message box that says "updated successfully".

Registers GUI :

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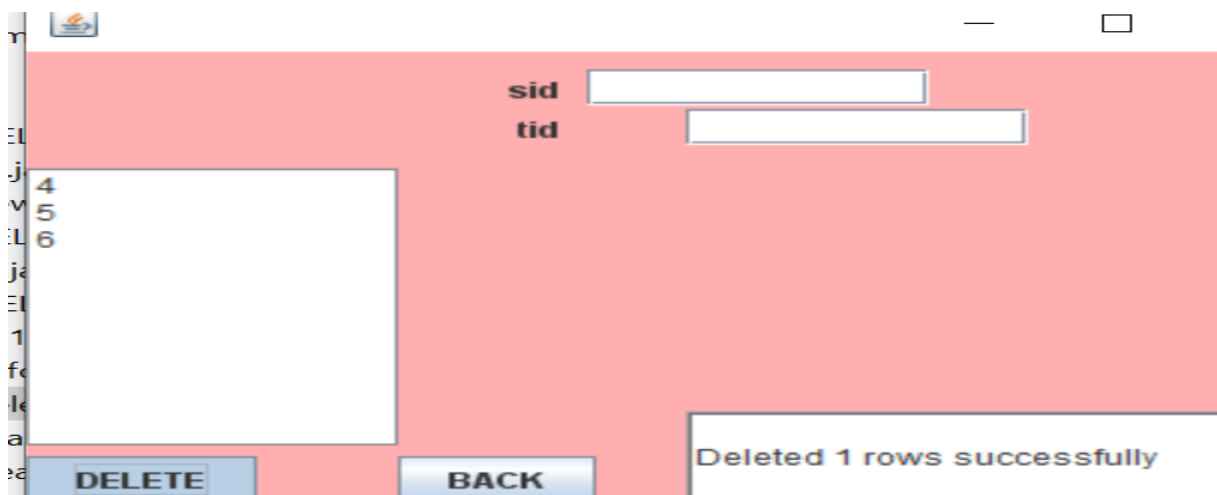
STUDENT ID 1

TEST ID 101

INSERT

BACK

Inserted successfully



sid

tid

4		
5		
6		

DELETE

BACK

Deleted 1 rows successfully

TestGUI:

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GUI Window for Deleting Rows:

sid	tot_attempted	tot_quest	crt_answr	wrng_a	tid
3					
4					
5					
6					

Buttons: DELETE, BACK

Message: Deleted 3 rows successfully

GUI Window for Inserting Row:

student ID: 2

tot\_attempt: 8

tot\_quest: 10

crt\_answer: 8

wrng\_answer: 0

te...: 101

Buttons: INSERT, BACK

Message: Inserted 1 rows successfully

Checks GUI:

GUI Window for Checking Rows:

TID	SID	RANK
104	105	106

Buttons: DELETE, BACK

Message: Deleted 1 rows successfully

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A screenshot of a web application window titled "ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM". The window has a light gray background. On the right side, there are three input fields: "TEST ID" with the value "101", "STUDENT ID" with the value "1", and "RANK" with the value "1". On the left side, there are two buttons: "INSERT" and "BACK". At the bottom right, there is a text box displaying "1 row inserted succesfully".

A screenshot of a web application window titled "ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM". The window has a light orange background. On the right side, there are three input fields: "TID:" with the value "104", "SID:" with the value "4", and "RANK:" with the value "5". On the left side, there is a list box containing the numbers "4", "5", and "6", with "4" selected. Below the list box are two buttons: "UPDATE" and "BACK". At the bottom right, there is a text box displaying "1 row updated succesfully".

ExamineCell GUI:

A screenshot of a web application window titled "ONLINE ADAPTIVE ASSESSMENT FEEDBACK FORM". The window has a light gray background. On the right side, there are four input fields: "STUDENT ID" with the value "2", "TOTAL\_AVG" with the value "80", "RESULT ID" with the value "201", and "CATEGORY" with the value "a1". On the left side, there are two buttons: "INSERT" and "BACK". At the bottom right, there is a text box displaying "inserted 1 row successfully".

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sid 5  
total\_score 9  
medal\_gained  
rank

1  
2  
3  
4  
5  
6

1 row deleted successfully

DELETE BACK

Examine result:

RID  
SID  
RANK

101  
1  
1

INSERT  
BACK

1 row inserted successfully

RID  
SID  
RANK

203  
204  
205

Deleted 1 rows successfully

DELETE BACK

ResultGUI:

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STUDENT ID: 2  
TOTAL\_AVG: 80  
RESULT ID: 201  
CATEGORY: a1

INSERT  
BACK

inserted 1 row successfully

SID:   
TOTAL\_AVG:   
RID:   
CATEGORY:

21  
201  
202  
203  
204  
205  
206

DELETE BACK

Deleted 1 rows successfully

Releases GUI:

STUDENT ID: 1  
TEST ID: 201

INSERT  
BACK

inserted 1 row successfully



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sid

rid

4	5	6
---	---	---

Deleted 1 rows successfully

**TESTING:**

Student id:

Student Name:

Contact:

Email:

Course:

Gender:

VendorError: 911

## **CONCLUSION:**

Thus , a Java AWT based registration form is created which is connected to the Oracle 11g database. Therefore, all the entries in the form are directly updated on the register table created in the database.

## **References:**

- <https://docs.oracle.com/javase/7/docs/api/>
- DATA SYTSEMS CONCEPT BY :HENRY F KORTH.
- <https://javatpoint.com/dbms-tutorial>