

**JAVA AWT BASED- Proctorial and personal counselling  
management system**

*A*

*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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**2020**

## **BONAFIDE CERTIFICATE**

Certified that this project report titled "Online MOOC's year wise student database management system" is bonafide work of Mr S.Hemanth Kumar, who carried out the mini project work under my supervision.

Certified further that, to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion or any other candidate.

Signature of the Examiner

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## **Abstract**

Proctorial and personal counselling system is a system which manages the details regarding the proctors allocated to students and students who require personal counselling are identified and allocated with a personal counsellor. It is a student level data connection system. This Proctorial and personal counselling system has a major role in academics. This system helps students to know their position better and it helps to enhance their skills and perform well in their academics. To ensure quality teaching and learning process it is important to have interaction sessions between students and faculty and to know the problems faced by students so that the faculty can help and guide them. With this view and to resolve generic problems which students face in their regular academics, this project helps in maintaining this data and monitoring the students.

# INTRODUCTION

## Requirement Analysis

List of tables:

- Proctor
- proctor\_personalCounsellor
- personalCounsellor
- personalCounsellor\_students
- students
- proctor\_students
- department
- department\_students

## List of attributes and their domain types:

Proctor:

pid Number(10)

pname varchar2(15)

experience Number(2)

age Number(2)

proctor\_personalCounsellor:

pid Number(10)

cid Number (10)

personalCounsellor:

cid Number(10)

cname varchar2 (15)

experience Number(2)

age Number(2)

personalCounsellor\_students:

cid Number(10)

sid Number(10)

students:

sid Number(10)

sname varchar2(15)

dob varchar2(15)

grade Number(3,1)

gender varchar2(5)

proctor\_students:

pid Number(10)

sid Number(10)

department:

did Number(10)

dname varchar2(20)

hod varchar2(20)

department\_students:

did Number(10)

sid Number(10)

## **Specific goal of the project:**

The special goal of this project is to provide a online Proctorial and personal counselling management system to the universities so that they can monitor the students details and keep a check on their academics.

This system helps students to know their position better and it helps to enhance their skills and perform well in their academics. To ensure quality teaching and learning process it is important to have interaction sessions between students and faculty and to know the problems faced by students so that the faculty can help and guide them. With this view and to resolve generic problems which students face in their regular academics, this project helps in maintaining this data and monitoring the students.

## **Architecture and technology used:**

**SQL Plus** is the most basic Oracle Database utility with a basic command-line interface, commonly used by users, administrators and programmers.

The interface of SQL Plus is used for creating the database. DDL and DML commands are implemented for operations being executed. The details of various Online MOOC's provider, courses, student, assignments, and results are stored in the form of tables in the database.

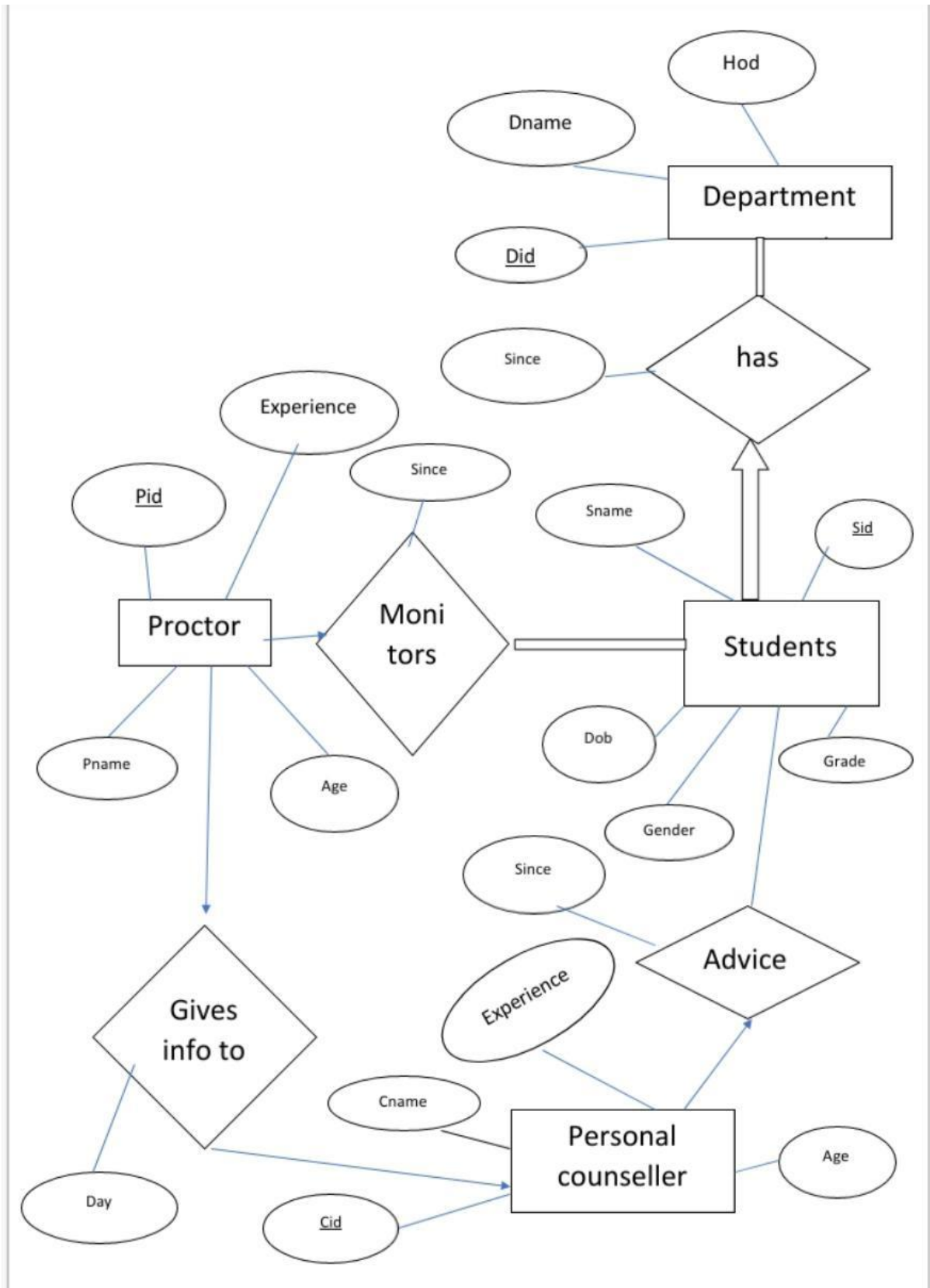
**Eclipse** is an integrated development environment(IDE) used in computer programming. It contains a base workspace and an extensible plug-in system for customizing the environment. Eclipse is written mostly in java and its primary use is for developing Java applications, but it may also be used to develop applications in other programming languages via plug-ins, including Erlang, JavaScripts etc.

The front end application code is written in "**Java**" using Eclipse. The portal for front end application is designed through Eclipse, runs and has the capacity to connect with the database which has data inserted using SQL.



Design:

ER diagram



## **Mapping Cardinalities and Participation Constraints:**

One proctor can monitor many students, but one student can have only one proctor. So it is one to many mapping.

All students must have a Proctor, so students are participating completely, it is complete participation.

One proctor gives information to only one personal counsellor. Therefore it is one to one mapping.

One personal counsellor can advise many students, but one student has only one personal counsellor. Hence it is one to many mapping. Not all students need a personal counsellor only students with less grade will have a personal counsellor. So it is partial participation.

A department can have many students, but one student belongs to only one department. Therefore it is a many to one mapping.

Every student must belong to a department and also every department should have a student. So both are participating totally.

## DDL Commands

```
SQL> create table proctor(pid Number(10) primary key,  
Pname varchar2(15 )  
experience Number(2),  
age Number(2)  
);
```

Table created.

```
SQL> create table proctor_personalCounsellor(pid Number(10),  
cid Number (10),day varchar2(20),  
foreign key (pid) references proctor,  
foreign key (cid) references personalCounsellor,  
primarykey(pid,cid));
```

Table created.

```
SQL> create table personalCounsellor(cid Number(10) primary key,  
cnamevarchar2(15),  
experience Number(2),  
age Number(2));
```

Table created.

```
SQL> create table personalCounsellor_students(sid Number(10) ,  
cid Number (10),since varchar2(5),
```

foreign key (sid) references students,  
foreign key (cid) references personalCounseller,  
primarykey(sid,cid));

Table created.

```
SQL> create table students(sid Number(10) primary key,  
sname varchar2(15 ),  
dob varchar2(15),  
grade Number(3,1),  
gender varchar2(5));
```

Table created.

```
SQL> create table proctor_students(sid Number(10),  
pid Number (10),since varchar2(5),  
foreign key (sid) references students,  
foreign key (pid) references proctor,  
primarykey(sid,pid));
```

Table created.

```
SQL> create table department(did Number(10) primary key,  
dname varchar2(20 )  
hod varchar2(20));
```

Table created.

```
SQL> create table department_students(sid Number(10),
```

did Number (10),

foreign key (sid) references students,

foreign key (did) references department,primarykey(sid,cid));

Table created.

SQL> desc proctor;

Name	Null?	Type
PID	NOT NULL	NUMBER(10)
PNAME		VARCHAR2(15)
EXPERIENCE		NUMBER(2)
AGE		NUMBER(2)

SQL> desc proctor\_personalCounsellor

Name	Null?	Type
PID	NOT NULL	NUMBER(10)
CID	NOT NULL	NUMBER(10)

SQL> desc personalCounsellor;

Name	Null?	Type
CID	NOT NULL	NUMBER(10)
CNAME		VARCHAR2(20)
EXPERIENCE		NUMBER(2)
AGE		NUMBER(2)

SQL> desc personalCouseller\_students;

Name	Null?	Type
CID	NOT NULL	NUMBER(10)
SID	NOT NULL	NUMBER(10)

SQL> desc students;

Name	Null?	Type
SID	NOT NULL	NUMBER(10)
SNAME		VARCHAR2(15)
DOB		VARCHAR2(15)
GRADE		NUMBER(3,1)
GENDER		VARCHAR2(5)

SQL> desc proctor\_students;

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

```
-----
-----
PID                                NOT NULL NUMBER(10)
SID                                NOT NULL NUMBER(10)

SQL> desc department;
Name                               Null?    Type
-----
DID                                NOT NULL NUMBER(10)
DNAME                             VARCHAR2(20)
HOD                                VARCHAR2(20)

SQL> desc departmen_students;
Name                               Null?    Type
-----
DID                                NOT NULL NUMBER(10)
SID                                NOT NULL NUMBER(10)
```

## Implementation:

### Front end programs:

#### 1.INSERT STUDENT:

```
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
public class InsertStudent extends Frame
{
    Button insertStudentButton;
    TextField sidText, snameText, dobText, genderText, gradeText;
    TextArea errorText;
    Connection connection;
    Statement statement;
    public InsertStudent()
    {
        try
        {
            Class.forName("oracle.jdbc.driver.OracleDriver");
        }
        catch (Exception e)
        {
            System.err.println("Unable to find and load driver");
            System.exit(1);
        }
        connectToDB();
    }
}
```

```
public void connectToDB()
{
try
{
connection =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","hyndavi","hyndhu3612");
statement = connection.createStatement();

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

public void buildGUI()
{
//Handle Insert Account Button
insertStudentButton = new Button("Insert Student");
insertStudentButton.addActionListener(new ActionListener()
{
public void actionPerformed(ActionEvent e)
{
try
{
//String query = "INSERT INTO sailors (SID,SNAME, RATING, AGE) VALUES (2,'Divya',7,20)";
String query= "INSERT INTO students VALUES(" + sidText.getText() + ", " + "" + snameText.getText()+""
+ ", " + "" + dobText.getText() + "" + ", " + "" + gradeText.getText() + ", " + "" + genderText.getText()+"" + ")";
int i = statement.executeUpdate(query);
errorText.append("\nInserted " + i + " rows successfully");
}
catch (SQLException insertException)
{
displaySQLErrors(insertException);
}
}
});
```

```
sidText = new TextField(30);
snameText = new TextField(30);
genderText = new TextField(30);
dobText = new TextField(30);
gradeText = new TextField(30);
```

```
errorText = new TextArea(20, 40);
errorText.setEditable(false);
```

```
Panel first = new Panel();
first.setLayout(new GridLayout(4, 2));
first.add(new Label("Student ID:"));
first.add(sidText);
first.add(new Label("Name:"));
first.add(snameText);
```

```
first.add(new Label("DOB:"));
first.add(dobText);
first.add(new Label("Grade:"));
    first.add(gradeText);
first.add(new Label("Gender:"));
    first.add(genderText);
first.setBounds(125,100,200,100);

Panel second = new Panel(new GridLayout(4, 1));
second.add(insertStudentButton);
    second.setBounds(125,220,150,100);

Panel third = new Panel();
third.add(errorText);
third.setBounds(125,320,300,200);

setLayout(null);

add(first);
add(second);
add(third);

setTitle("New Student Creation");
setSize(500, 600);
setVisible(true);
}

private void displaySQLErrors(SQLException e)
{
    errorText.append("\nSQLException: " + e.getMessage() + "\n");
    errorText.append("SQLState:    " + e.getSQLState() + "\n");
    errorText.append("VendorError: " + e.getErrorCode() + "\n");
}

public static void main(String[] args)
{
    InsertStudent stu = new InsertStudent();

    stu.addWindowListener(new WindowAdapter(){
        public void windowClosing(WindowEvent e)
        {
            System.exit(0);
        }
    });

    stu.buildGUI();
}
}
```

## 2.DELETE STUDENT

```
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
public class DeleteStudent extends Frame
```



```
{
Button deleteStudentButton;
List studentIDList;
TextField sidText, snameText, gradeText,dobText ,genderText;
TextArea errorText;
Connection connection;
Statement statement;
ResultSet rs;

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

public void connectToDB()
{
try
{
connection =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","hyndavi","hyndhu3612");
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 loadStudents()
{
try
{
rs = statement.executeQuery("SELECT * FROM students");
while (rs.next())
{
studentIDList.add(rs.getString("SID"));
}
}
catch (SQLException e)
{
displaySQLErrors(e);
}
}

public void buildGUI()
```

```
{
    studentIDList = new List(10);
loadStudents();
add(studentIDList);

//When a list item is selected populate the text fields
studentIDList.addItemListener(new ItemListener()
{
    public void itemStateChanged(ItemEvent e)
    {
        try
        {
            rs = statement.executeQuery("SELECT * FROM students");
            while (rs.next())
            {
                if (rs.getString("SID").equals(studentIDList.getSelectedItem()))
                    break;
            }
            if (!rs.isAfterLast())
            {
                sidText.setText(rs.getString("SID"));
                snameText.setText(rs.getString("SNAME"));
                dobText.setText(rs.getString("DOB"));
                gradeText.setText(rs.getString("GRADE"));
                genderText.setText(rs.getString("GENDER"));
            }
        }
        catch (SQLException selectException)
        {
            displaySQLErrors(selectException);
        }
    }
});

//Handle Delete Student Button
deleteStudentButton = new Button("Delete Student");
deleteStudentButton.addActionListener(new ActionListener()
{
    public void actionPerformed(ActionEvent e)
    {
        try
        {
            Statement statement = connection.createStatement();
            int i = statement.executeUpdate("DELETE FROM students WHERE SID = "
+ studentIDList.getSelectedItem());
            errorText.append("\nDeleted " + i+1 + " rows successfully");
            sidText.setText(null);
            snameText.setText(null);
            dobText.setText(null);
            gradeText.setText(null);
            genderText.setText(null);
            studentIDList.removeAll();
            loadStudents();
        }
        catch (SQLException insertException)
        {
            displaySQLErrors(insertException);
        }
    }
});
```

```
}
}
});

sidText = new TextField(15);
snameText = new TextField(15);
dobText = new TextField(15);
gradeText = new TextField(15);
genderText = new TextField(15);

errorText = new TextArea(10, 40);
errorText.setEditable(false);

Panel first = new Panel();
first.setLayout(new GridLayout(4, 2));
first.add(new Label("Student ID:"));
first.add(sidText);
first.add(new Label("Name:"));
first.add(snameText);
first.add(new Label("DOB:"));
first.add(dobText);
first.add(new Label("Grade:"));
first.add(gradeText);
first.add(new Label("Gender:"));
first.add(genderText);

Panel second = new Panel(new GridLayout(4, 1));
second.add(deleteStudentButton);

Panel third = new Panel();
third.add(errorText);

add(first);
add(second);
add(third);

setTitle("Remove Student");
setSize(450, 600);
setLayout(new FlowLayout());
setVisible(true);

}

private void displaySQLExceptions(SQLException e)
{
    errorText.append("\nSQLException: " + e.getMessage() + "\n");
    errorText.append("SQLState: " + e.getSQLState() + "\n");
    errorText.append("VendorError: " + e.getErrorCode() + "\n");
}

public static void main(String[] args)
{
    DeleteStudent dels = new DeleteStudent();
```

```
dels.addWindowListener(new WindowAdapter(){
    public void windowClosing(WindowEvent e)
    {
        System.exit(0);
    }
});

dels.buildGUI();
}
}
```

### 3.UPDATE STUDENT

```
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
public class UpdateStudent extends Frame
{
    Button updateStudentButton;
    List studentIDList;
    TextField sidText, snameText, dobText, gradeText,genderText;
    TextArea errorText;
    Connection connection;
    Statement statement;
    ResultSet rs;

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

    public void connectToDB()
    {
        try
        {
            connection =
            DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","hyndavi","hyndhu3612");
            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 loadStudents()
{
try
{
rs = statement.executeQuery("SELECT SID FROM students");
while (rs.next())
{
studentIDList.add(rs.getString("SID"));
}
}
catch (SQLException e)
{
displaySQLErrors(e);
}
}

public void buildGUI()
{
studentIDList = new List(10);
loadStudents();
add(studentIDList);

//When a list item is selected populate the text fields
studentIDList.addItemListener(new ItemListener()
{
public void itemStateChanged(ItemEvent e)
{
try
{
rs = statement.executeQuery("SELECT * FROM students where SID =" + studentIDList.getSelectedItem());
rs.next();
sidText.setText(rs.getString("SID"));
snameText.setText(rs.getString("SNAME"));
dobText.setText(rs.getString("DOB"));
gradeText.setText(rs.getString("GRADE"));
genderText.setText(rs.getString("GENDER"));

}
catch (SQLException selectException)
{
displaySQLErrors(selectException);
}
}
});

//Handle Update Sailor Button
updateStudentButton = new Button("Update Student");
updateStudentButton.addActionListener(new ActionListener()
{
public void actionPerformed(ActionEvent e)
{
try
{
Statement statement = connection.createStatement();
int i = statement.executeUpdate("UPDATE students "
+ "SET sname=" + snameText.getText() + ", "
+ "dob=" + dobText.getText() + ", "
```

```
+ "grade =" + gradeText.getText() + ", "  
        + "gender =" + genderText.getText() + " WHERE sid = "  
+ studentIDList.getSelectedItemId());  
errorText.append("\nUpdated " + i + " rows successfully");  
studentIDList.removeAll();  
loadStudents();  
}  
catch (SQLException insertException)  
{  
    displaySQLErrors(insertException);  
}  
}  
});
```

```
sidText = new TextField(15);  
sidText.setEditable(false);  
snameText = new TextField(15);  
dobText = new TextField(15);  
gradeText = new TextField(15);  
genderText = new TextField(15);
```

```
errorText = new TextArea(10, 40);  
errorText.setEditable(false);
```

```
Panel first = new Panel();  
first.setLayout(new GridLayout(4, 2));  
first.add(new Label("Sailor ID:"));  
first.add(sidText);  
first.add(new Label("Name:"));  
first.add(snameText);  
first.add(new Label("Dob:"));  
first.add(dobText);  
first.add(new Label("Grade:"));  
first.add(gradeText);  
first.add(new Label("Gender:"));  
        first.add(genderText);
```

```
Panel second = new Panel(new GridLayout(4, 1));  
second.add(updateStudentButton);
```

```
Panel third = new Panel();  
third.add(errorText);
```

```
add(first);  
add(second);  
add(third);
```

```
setTitle("Update Student");  
setSize(500, 600);  
setLayout(new FlowLayout());  
setVisible(true);
```

```
}
```

```
private void displaySQLErrors(SQLException e)  
{  
    errorText.append("\nSQLException: " + e.getMessage() + "\n");  
    errorText.append("SQLState:    " + e.getSQLState() + "\n");
```

```
errorText.append("VendorError: " + e.getErrorCode() + "\n");
}
```

```
public static void main(String[] args)
{
    UpdateStudent upst = new UpdateStudent();

    upst.addWindowListener(new WindowAdapter(){
        public void windowClosing(WindowEvent e)
        {
            System.exit(0);
        }
    });

    upst.buildGUI();
}
```

#### 4. Connectivity with the Database:

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.

##### Block of code for JAVA- SQL connectivity with JDBC:

```
/*import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException; */

import java.sql.*;

class OracleCon
{
    public static void main(String args[]){
        try{
            //step1 load the driver class
            Class.forName("oracle.jdbc.driver.OracleDriver"); // or Class.forName("oracle.jdbc.OracleDriver");

            //step2 create the connection object
            Connection con=DriverManager.getConnection(
                "jdbc:oracle:thin:@localhost:1521:xe","hyndavi","hyndhu3612");

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

            //step4 execute query
            ResultSet rs=stmt.executeQuery("select * from students");
            while(rs.next())
                System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getString(3));

            //step5 close the connection object
        }
    }
}
```

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```
con.close();

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

}

}
```

## 5.Main program-PROCTORIALSYSTEM

```
import java.awt.*;
import java.awt.event.*;

class proctorialSystem extends Frame implements ActionListener
{
    String msg = "";
    Label ll;
    InsertStudent stu;
    UpdateStudent upst;
    DeleteStudent dels;
    InsertProctor proc;
        UpdateProctor upro;
        DeleteProctor delpro;
    InsertPersonalCounsellor perc;
        UpdatePersonalCounsellor uppc;
        DeletePersonalCounsellor delpc;
    InsertDepartment dep;
        UpdateDepartment upd;
        DeleteDepartment deld;
    //MakeReservation mks;
    personalCounsellor_student pcs;
    proctor_student ps;
    proctor_personalCounsellor ppc;
    department_student ds;

    proctorialSystem()
    {
        ll = new Label();
        ll.setAlignment(Label.CENTER);
        ll.setBounds(100,300,300,150);
        ll.setText("Welcome to proctorial system");
        add(ll);

        // create menu bar and add it to frame
        MenuBar mbar = new MenuBar();
        setMenuBar(mbar);

        // create the menu items and add it to Menu
        Menu student = new Menu("Student");
        MenuItem item1, item2, item3;
        student.add(item1 = new MenuItem("Submit Student"));
        student.add(item2 = new MenuItem("Modify Student"));
        student.add(item3 = new MenuItem("Delete Student"));
        mbar.add(student);

        Menu proctor = new Menu("proctor");
        MenuItem item4, item5, item6;
```



```
proctor.add(item4 = new MenuItem("Submit proctor"));
proctor.add(item5 = new MenuItem("Modify proctor"));
proctor.add(item6 = new MenuItem("Delete proctor"));
mbar.add(proctor);
    Menu personalCounsellor = new Menu("personalCounsellor");
        MenuItem item7, item8, item9;
        personalCounsellor.add(item7 = new MenuItem("Submit personalCounsellor"));
        personalCounsellor.add(item8 = new MenuItem("Modify personalCounsellor"));
        personalCounsellor.add(item9= new MenuItem("Delete personalCounsellor"));
        mbar.add(personalCounsellor);
Menu department = new Menu("department");
    MenuItem item10, item11, item12;
    department.add(item10 = new MenuItem("Submit department"));
    department.add(item11= new MenuItem("Modify department"));
    department.add(item12= new MenuItem("Delete department"));
    mbar.add(department);

Menu proctor_student = new Menu("proctor_student");
MenuItem item13, item14, item15;
proctor_student.add(item13 = new MenuItem("Submit proctor_student"));
//proctor_student.add(item14= new MenuItem("Modify student_proctor"));
//proctor_student.add(item15= new MenuItem("Delete student_proctor"));
mbar.add(proctor_student);
    Menu department_student = new Menu(" department_student");
        MenuItem item16, item17, item18;
        department_student.add(item16 = new MenuItem("Submit department_student"));
        //department_student.add(item17= new MenuItem("Modify department_student"));
        //department_student.add(item18= new MenuItem("Delete department_student"));
        mbar.add( department_student);
Menu personalCounsellor_student= new Menu(" personalCounsellor_student");
    MenuItem item19, item20, item21;
    personalCounsellor_student.add(item19 = new MenuItem("Submit
personalCounsellor_student"));
        //personalCounsellor_student.add(item20= new
MenuItem("Modify personalCounsellor_student"));
        //personalCounsellor_student.add(item21= new
MenuItem("Delete personalCounsellor_student"));
        mbar.add( personalCounsellor_student);
Menu proctor_personalCounsellor = new Menu("proctor_personalCounsellor");
    MenuItem item22, item23, item24;
    proctor_personalCounsellor.add(item22 = new MenuItem("Submit
proctor_personalCounsellor"));
        //proctor_personalCounsellor.add(item23= new MenuItem("Modify
proctor_personalCounsellor"));
        //proctor_personalCounsellor.add(item24 = new MenuItem("Delete
proctor_personalCounsellor"));
        mbar.add(proctor_personalCounsellor);

// register listeners
item1.addActionListener(this);
item2.addActionListener(this);
item3.addActionListener(this);
item4.addActionListener(this);
item5.addActionListener(this);
item6.addActionListener(this);
```

```
item7.addActionListener(this);
item8.addActionListener(this);
item9.addActionListener(this);
    item10.addActionListener(this);
item11.addActionListener(this);
    item12.addActionListener(this);
    item13.addActionListener(this);
    //item14.addActionListener(this);
    //item15.addActionListener(this);
    item16.addActionListener(this);
    //item17.addActionListener(this);
    //item18.addActionListener(this);
    item19.addActionListener(this);
//item20.addActionListener(this);
    //item21.addActionListener(this);
    item22.addActionListener(this);
    //item23.addActionListener(this);
    //item24.addActionListener(this);

// Anonymous inner class which extends WindowAdaptor to handle the Window event: windowClosing
addWindowListener(new WindowAdapter(){
    public void windowClosing(WindowEvent we)
    {
        System.exit(0);
    }
});

//Frame properties
setTitle("Proctorial system");
Color clr = new Color(200, 100, 150);
setBackground(clr);
setFont(new Font("SansSerif", Font.BOLD, 14));
setLayout(null);
setSize(500, 600);
setVisible(true);

}

public void actionPerformed(ActionEvent ae)
{
    String arg = ae.getActionCommand();
    if(arg.equals("Submit Student"))
    {
        stu = new InsertStudent();

        stu.addWindowListener(new WindowAdapter(){
            public void windowClosing(WindowEvent e)
            {
                stu.dispose();
            }
        });
        stu.buildGUI();
    }

    else if(arg.equals("Modify Student"))
    {
        upst = new UpdateStudent();
    }
}
```

```
upst.addWindowListener(new WindowAdapter(){
public void windowClosing(WindowEvent e)
{
upst.dispose();
}
});
upst.buildGUI();
}

else if(arg.equals("Delete Student"))
{
dels = new DeleteStudent();

dels.addWindowListener(new WindowAdapter(){
public void windowClosing(WindowEvent e)
{
dels.dispose();
}
});
dels.buildGUI();
}
else if(arg.equals("Submit proctor"))
{
    proc = new InsertProctor();

    proc.addWindowListener(new WindowAdapter(){
    public void windowClosing(WindowEvent e)
    {
        proc.dispose();
    }
    });
    proc.buildGUI();
}

else if(arg.equals("Modify proctor"))
{
    uppro = new UpdateProctor();
    uppro.addWindowListener(new WindowAdapter(){
    public void windowClosing(WindowEvent e)
    {
        uppro.dispose();
    }
    });
    uppro.buildGUI();
}
else if(arg.equals("Delete proctor"))
{
    delpro = new DeleteProctor();

    delpro.addWindowListener(new WindowAdapter(){
    public void windowClosing(WindowEvent e)
    {
        delpro.dispose();
    }
    });
    delpro.buildGUI();
}
else if(arg.equals("Submit personalCounsellor"))
```

```
{
    perc = new InsertPersonalCounsellor();

    perc.addWindowListener(new WindowAdapter(){
        public void windowClosing(WindowEvent e)
        {
            perc.dispose();
        }
    });
    perc.buildGUI();
}

else if(arg.equals("Modify personalCounsellor"))
{
    uppc = new UpdatePersonalCounsellor();
    uppc.addWindowListener(new WindowAdapter(){
        public void windowClosing(WindowEvent e)
        {
            uppc.dispose();
        }
    });
    uppc.buildGUI();
}
else if(arg.equals("Delete personalCounsellor"))
{
    delpc = new DeletePersonalCounsellor();

    delpc.addWindowListener(new WindowAdapter(){
        public void windowClosing(WindowEvent e)
        {
            delpc.dispose();
        }
    });
    delpc.buildGUI();
}
else if(arg.equals("Submit department"))
{
    dep = new InsertDepartment();

    dep.addWindowListener(new WindowAdapter(){
        public void windowClosing(WindowEvent e)
        {
            dep.dispose();
        }
    });
    dep.buildGUI();
}

else if(arg.equals("Modify department"))
{
    upd = new UpdateDepartment();
    upd.addWindowListener(new WindowAdapter(){
        public void windowClosing(WindowEvent e)
        {
            upd.dispose();
        }
    });
    upd.buildGUI();
}
```

```
    }
else if(arg.equals("Delete department"))
{
    deld = new DeleteDepartment();

    deld.addWindowListener(new WindowAdapter(){
        public void windowClosing(WindowEvent e)
        {
            deld.dispose();
        }
    });
    deld.buildGUI();
}
else if(arg.equals("Submit proctor_student"))
{
    ps = new proctor_student();
    setVisible(false);
    ps.addWindowListener(new WindowAdapter(){
        public void windowClosing(WindowEvent e)
        {
            ps.dispose();
            setVisible(true);
        }
    });
    ps.buildGUI();
}
else if(arg.equals("Submit department_student"))
{
    ds = new department_student();
    setVisible(false);
    ds.addWindowListener(new WindowAdapter(){
        public void windowClosing(WindowEvent e)
        {
            ds.dispose();
            setVisible(true);
        }
    });
    ds.buildGUI();
}
else if(arg.equals("Submit personalCounsellor_student"))
{
    pcs = new personalCounsellor_student();
    setVisible(false);
    pcs.addWindowListener(new WindowAdapter(){
        public void windowClosing(WindowEvent e)
        {
            pcs.dispose();
            setVisible(true);
        }
    });
    pcs.buildGUI();
}
else if(arg.equals("Submit proctor_personalCounsellor"))
{
    ppc = new proctor_personalCounsellor();
    setVisible(false);
    ppc.addWindowListener(new WindowAdapter(){
        public void windowClosing(WindowEvent e)
```

```
        {
            ppc.dispose();
            setVisible(true);
        }
    });
    ppc.buildGUI();
}

}

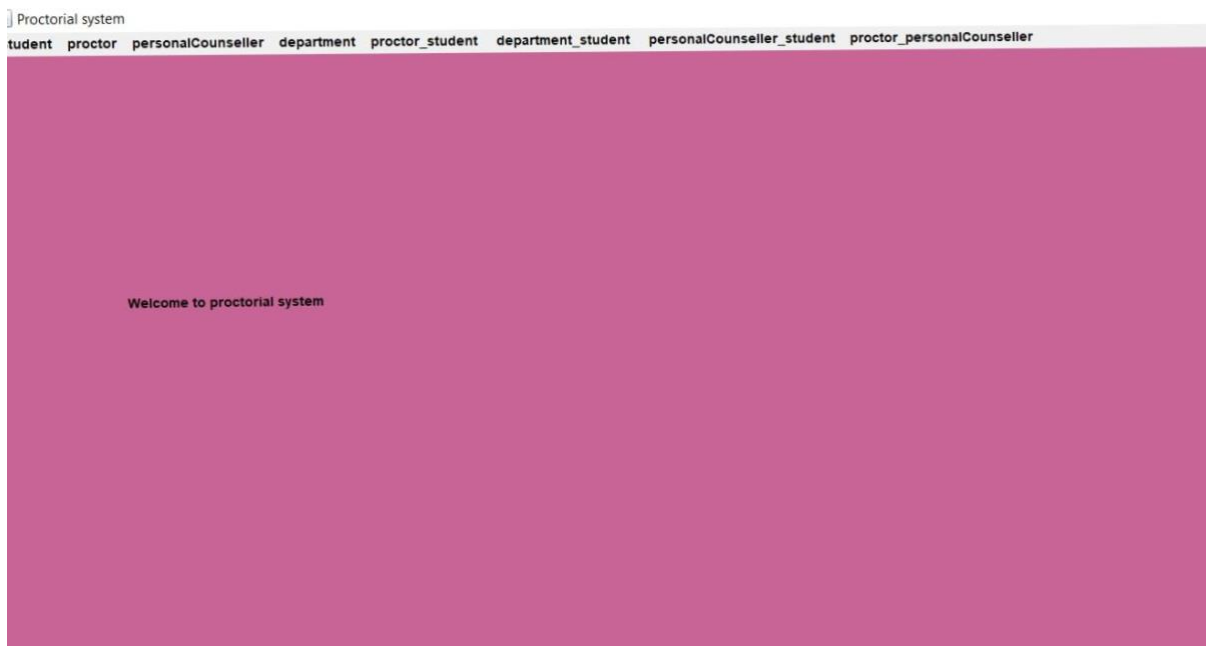
public static void main(String ... args)
{
    new proctorialSystem();
}
}
```

## Github link:

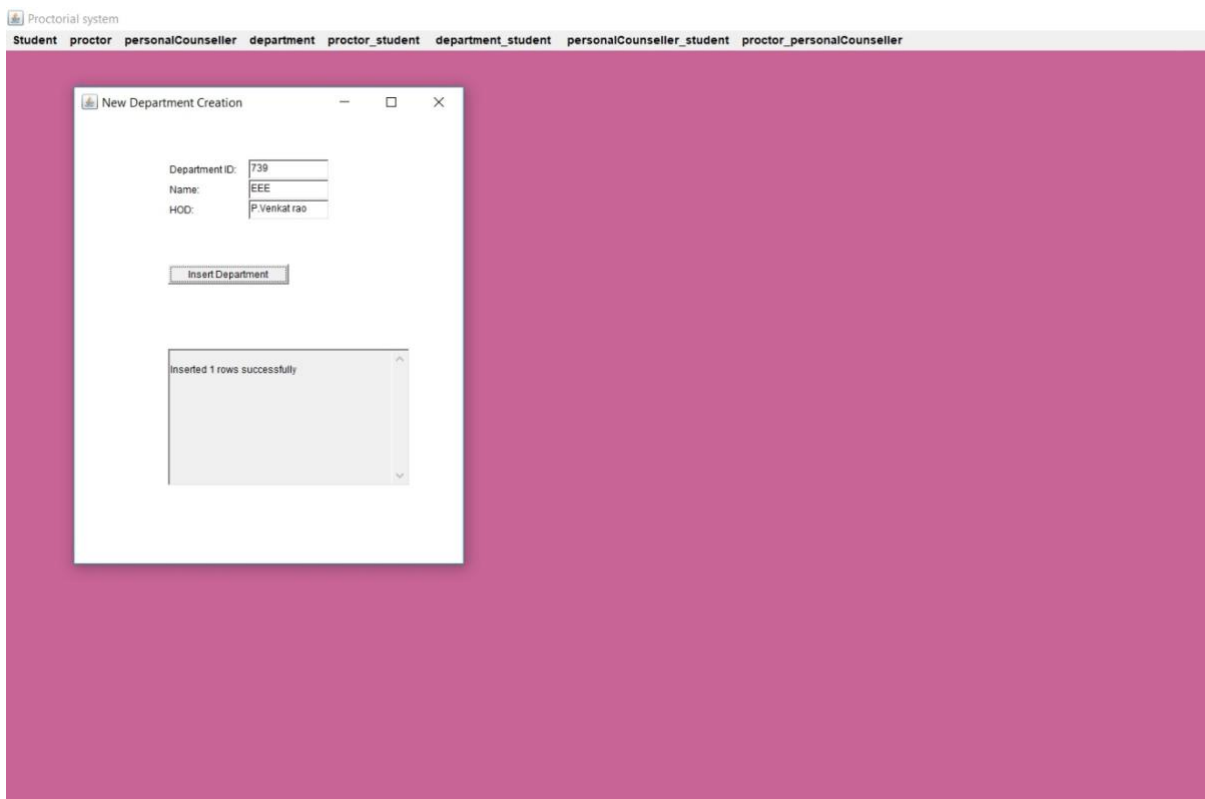
<https://github.com/hyndavi-ui>

## Testing :

### Main frame:



## Output screenshots:



## Online Proctorial and personal counselling management system

Proctorial system

Student proctor personalCounseller department proctor\_student department\_student personalCounseller\_student proctor\_personalCounseller

Update Department

732  
733  
734  
735  
736  
737

Department ID: 733  
Name: Cse  
HOD: T Adilami

Update Department

Updated 1 rows successfully

Proctorial system

Student proctor personalCounseller department proctor\_student department\_student personalCounseller\_student proctor\_personalCounseller

Remove Department

737  
733  
735  
736  
732  
734

Department ID:  
Name:  
HOD:

Delete Department

Deleted 1 rows successfully



## Results:

### DML Commands

```
SQL> insert into proctor values(&pid,&pname,&experience, &age);
```

```
Enter value for pid: 1
```

```
Enter value for pname: Deepa
```

```
Enter value for experience: 8
```

```
Enter value for age: 30
```

```
old 1: insert into proctor values(&pid,&pname,&experience,&age)
```

```
new 1: insert into proctor values(1,Deepa,8,30)
```

```
SQL> /
```

```
5 rows created
```

```
SQL> insert into proctor_personalCounsellor values(&pid, &cid);
```

```
Enter value for pid: 1
```

```
Enter value for cid: 101
```

```
old 1: insert into proctor values(&pid,&cid)
```

```
new 1: insert into proctor values(1,101)
```

```
SQL> /
```

```
5 rows created
```

```
SQL> insert into personalCounsellor values(&cid,&cname,&experience, &age);
```

```
Enter value for cid: 101
```

```
Enter value for cname: Laxmi
```

```
Enter value for experience:20
```

```
Enter value for age: 45
```

```
old 1: insert into proctor values(&cid,&cname,&experience,&age)
```

```
new 1: insert into proctor values(101,Laxmi,20,45)
```

```
SQL> /
```

```
5 rows created
```

```
SQL> insert into personalCounsellor_students values(&sid, &cid);
```

```
Enter value for sid: 14
```

```
Enter value for cid: 102
```

```
old 1: insert into proctor values(&sid,&cid)
```

```
new 1: insert into proctor values(14,102)
```

```
SQL> /
```

```
5 rows created
```

```
SQL> insert into students values(&sid,'&sname','&dob',&grade, '&gender');
```

Enter value for sid: 10

Enter value for sname: Ruhi

Enter value for dob: 01-Apr-2001

Enter value for grade: 9.3

Enter value for gender:f

```
old 1: insert into proctor values(&pid,'&pname',&experience,&age)
```

```
new 1: insert into proctor values(1,Deepa,8,30)
```

```
SQL> /
```

5 rows created

```
SQL> insert into proctor_students values(&pid, &sid);
```

Enter value for pid: 1

Enter value for sid: 101

```
old 1: insert into proctor values(&pid,&sid)
```

```
new 1: insert into proctor values(1,12)
```

```
SQL> /
```

5 rows created

```
SQL> insert into department values(&did,'&dname','&hod');
```

Enter value for did: 737

Enter value for dname: It

Enter value for hod: K.Ram Mohan

```
old 1: insert into proctor values(&did,'&dname','&hod ')
```

```
new 1: insert into proctor values(737,It,K.Ram Mohan
```

```
SQL> /
```

5 rows created

```
SQL> insert into department_students values(&did, &sid);
```

Enter value for did: 737

Enter value for sid: 10

```
old 1: insert into proctor values(&did,&sid)
```

```
new 1: insert into proctor values(737,10)
```

```
SQL> /
```

5 rows created

```
SQL> select * from proctor;
```

PID	PNAME	EXPERIENCE	AGE
1602-18-737-074	T.Hyndavi		

DBMS project

## Online Proctorial and personal counselling management system

1	Deepa	8	30
2	Karthik	7	32
3	Soundarya	10	46
4	Sravya	6	29
5	Anand	12	49

SQL> select \* from proctor\_personalCounsellor;

PID	CID
1	101
2	102
3	103
4	104
5	105

SQL> select \* from personalCounsellor;

CID	CNAME	EXPERIENCE	AGE
101	Laxmi	45	20
102	Ishitha	25	10
103	Raman	30	12
104	Aditya	28	10
105	Arun	32	13

SQL> select \* from personalCounsellor\_students;

CID	SID
102	14
103	18
101	19

SQL> select \* from students;

SID	SNAME	DOB	GRADE	GENDE
10	Ruhi	01-Apr-2001	9.3	f
12	Pihu	12-Mar-2000	8.6	f
14	Siddarth	05-Feb-2000	7.3	m
18	Manik	17-Mar-2000	6.5	m
19	Nandini	09-Aug-2000	6.3	f
11	Druv	22-May-2001	8.1	m

6 rows selected.

SQL> select \* from proctor\_students;

PID	SID
1	12

2	18
3	10
4	11
5	19
3	14

6 rows selected.

```
SQL> select * from department;
```

DID	DNAME	HOD
737	It	K.Ram Mohan
733	Cse	T.Adilaxmi
735	Ece	E.Sreenivasa Rao
736	Mechanical	T.Ram Mohan
732	Civil	B.Sridhar
734	Eee	M.Chakravathy

6 rows selected.

```
SQL> select * from department_students;
```

DID	SID
737	10
733	18
735	11
736	14
732	19
734	12

6 rows selected.

## Discussion and future work:

The application done till now is to store all the information related to the Proctorialsystem of a college . Furthermore, other programming languages can also be used along with database by connecting SQL with it. This application can be extended further more to information regarding students and their proctors and personal counsellors of many other colleges, organizations etc

## CONCLUSION:

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

## References:

<https://www.freeprojectz.com/php-mysql-project/student-counselling-management-system>

<https://partheniumprojects.com/personal-counselling/>