

**The Aditya Birla Public School**  
**Kharia Khangar, Jodhpur**

**Session: 2017-2018**



**Project Report On**  
**Student Management System**

**Submitted By:**

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**Submitted To:**

**All India Senior Secondary Certified Examination**

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# **Certificate**

This is to certify that Vishnu Tanwar, student of Class XII (Science) has satisfactorily carried out the project on “Student Management System” under my personal guidance and supervision. All works related to the project was done by the candidate himself.

This report is in order of the task performed by him and I am satisfied by him work. His sincere efforts and persuasion could get this project completed.

(Principal)

**Mr. Udai Nag**  
(HOD, Computer)

# ACKNOWLEDGEMENT

It is the privilege and profound duty and my experience, gratitude and perpetuates indebtedness to my subject teacher Mr. Udai Nag, under whose guidance and constant inspiration, I am able to complete my project. I would also like to pay my gratitude to the science faculty for advice and help they had given me. At last but not the least I would like to thanks my parents and my friend for their spiritual support.

Vishnu Tanwar

Class:-XII(science)

# HARDWARE USED

## Hardware Required:

- RAM = 1 GB
- Internal Memory = 1 GB(min)\

## Software Used:

- Front End Application = Java Net Beans IDE
- Backend Application = MySql

## **INTRODUCTION TO PROJECT**

**The objective of “Student Management System” is to allow the administer to edit and find out the personal details of a student and allow the student to keep up to date his profiles. It’ll also facilitates keeping all the records of students, such as their name, address, residence etc. So all the information about an student will be available in a few seconds.**

**The purpose of this project is to provide a system process on addition of new students, deletion of student record, updating of record in student information system.**

**This project uses Databases Connectivity to student information details in a MySql .**

## ***Introduction to MySQL***

**MySQL is an open-source relation database management system (RDBMS). Its name is a combination of “My”, the name of co-founders Michael Wideness’s daughter and “SQL”, the abbreviation for Structured Query Language. The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety of proprietary agreements. MySQL was owned and sponsored by a single for-profit firm, the Swedish company MySQL AB, now owned by Oracle Corporation. For proprietary use, several paid edition are available, and offer additional functionality.**

## ***Introduction to Netbeans***

**Netbeans is a software development platform written in Java. The Netbeans platform allows application to be developed from a set of modular software components called modules. Application based on the Netbeans platform, including the Netbeans integrated development environment (IDE), can be extended by third party developers.**

**The Netbeans IDE is primarily intended for development in Java, but also supports other language, in particulars PHP, C/C++ and HTML5. Netbeans is cross-platform and runs on Microsoft Windows, Mac OS X, Linux, Solaris and other platform supporting a compatible JVM.**



# TABLE STRUCTURE

Log in Table:-

```
mysql> select *from login;
+-----+-----+
| username | password |
+-----+-----+
| Vishnu   | tanwar   |
| Vikas    | latiyal  |
+-----+-----+
```

Student Table:-

```
mysql> select *from student;
+-----+-----+
| RollNo | Name      |
+-----+-----+
| 1001   | Vishnu   |
| 1002   | Diti     |
| 1003   | Sanket   |
| 1004   | Vikas    |
| 1005   | Sunita   |
| 1006   | Sunil    |
| 1007   | Virendra |
| 1008   | Ria      |
| 1009   | Tanay    |
| 1010   | Aman     |
| 1011   | Aarohee  |
+-----+-----+
```

### Course Table:-

```
mysql> select *from course;
```

c_code	title	clroom	day	Cdate
1	History	1	Monday	2017-10-28
2	Zoology	2	Tuesday	2017-10-29
3	Physics	3	Wednesday	2017-10-30
4	English	4	Wednesday	2017-10-30
5	Civics	5	Thrusday	2017-10-31

### Instructor Table:-

```
mysql> select *from instructor;
```

ins_code	Name
1	Naveen Mittal
2	Udai Nag
3	B.K.Patel
4	Sehdev saini
5	Arshiya Rehman

### Exam Table:-

```
mysql> select *from exam;
```

ex_code	date	etime	place	subject
11	0000-00-00	10	Jaipur	English
12	0000-00-00	10	Jaipur	Physics
13	0000-00-00	10	Jaipur	Chemistry
14	0000-00-00	10	Jaipur	Biology
15	0000-00-00	10	Jaipur	IP

Dayscolar Table:-

```
mysql> select *from dayscholar;
+-----+
| lockno |
+-----+
| 64730  |
| 585004 |
| 800584 |
| 1000013 |
| 6000754 |
+-----+
```

Residence Table:-

```
mysql> select *from residence;
+-----+-----+
| hostelno | roomno |
+-----+-----+
| 2310     | 58555  |
| 223421   | 884576 |
| 556432   | 88976  |
| 758954   | 7896   |
| 900123   | 2201   |
+-----+-----+
```

# SOURCE CODE

## Sign In (Log In)



## Source code for sign button....

```
String usr=tf1.getText ();  
  
String pwd=p1.getText ();  
  
try {  
  
    Class.forName ("java.sql.Driver");  
  
    Connection conn=DriverManager.getConnection  
("jdbc:mysql://localhost/studentin","root","system");
```

```

        Statement st=conn.createStatement ();

        String sql="select *from login where username='"+tf1.getText ()
+"";";

        ResultSet rs=st.executeQuery(sql);

        if(rs.next())

        {

            String us=rs.getString ("username");

            String pw=rs.getString ("password");

            if(pwd.equals("639")){

                JOptionPane.showMessageDialog(null,"WELCOME please
push oK");

                MainOption obj=new MainOption();

                obj.setVisible(true);

                this.setVisible (false);
            } else
            {

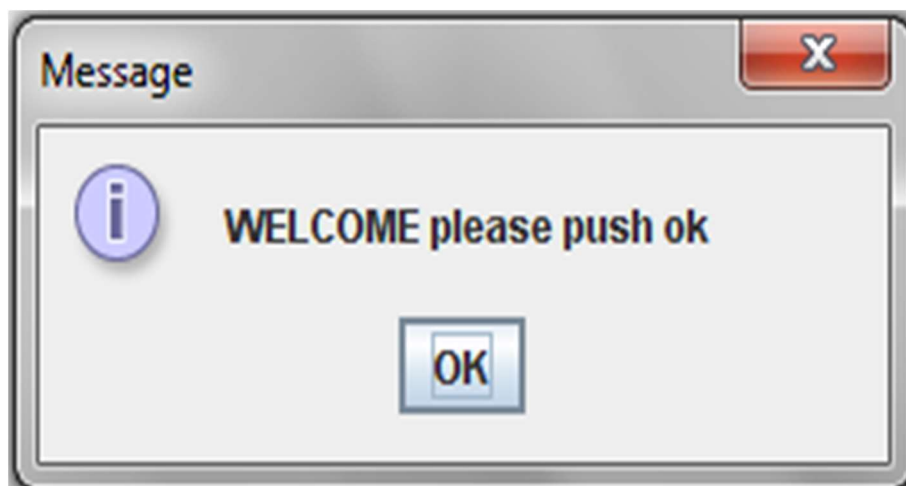
                JOptionPane.showMessageDialog (null, "incorrect
password");
            }
        }
        else
        {

            JOptionPane.showMessageDialog (null, "incorrect
username");
        }
    }

```

```
    }  
    catch (Exception e){  
        JOptionPane.showMessageDialog (null, "Error in  
Connectivity");  
    }  
  
}
```

Output for sign button....



### Exit Button....

```
Int a=JOptionPane.showConfirmDialog (null, "Want to  
exit");
```

```
    if (a==JOptionPane.YES_OPTION){
```

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

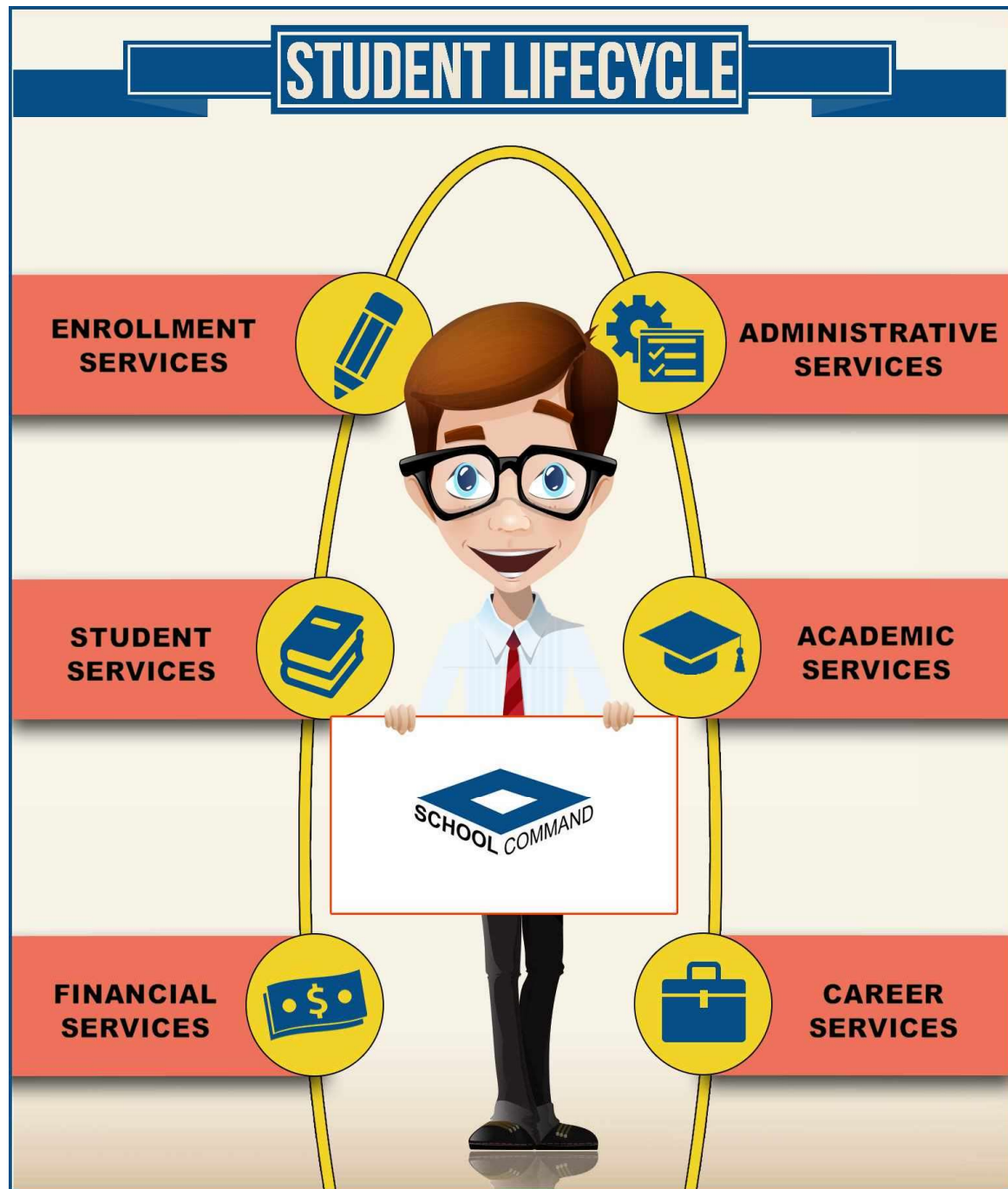
```
    }
```

```
}
```

### Output for Exit Button ...

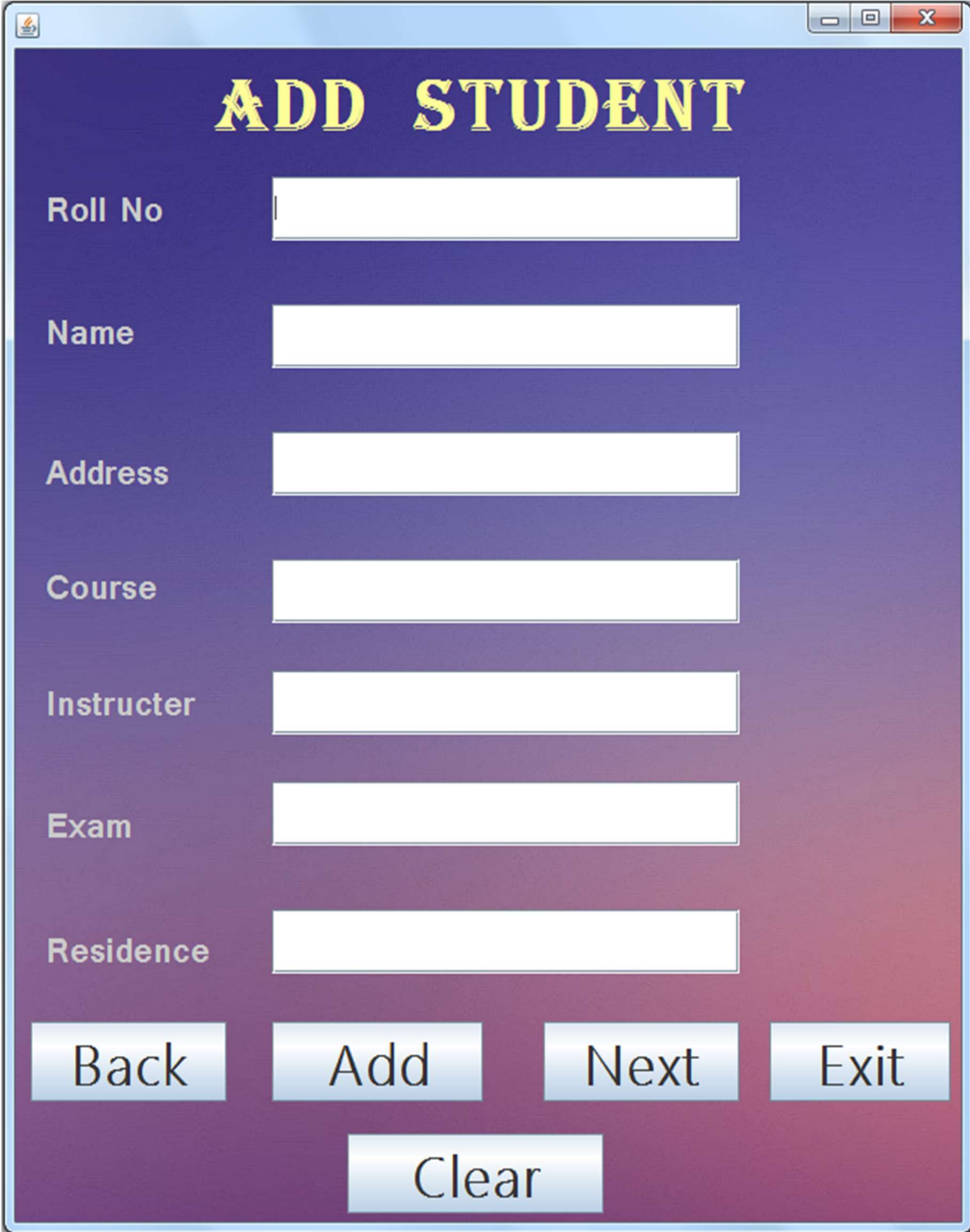
*By clicking on Exit button the page will be closed.*

# WELCOME TO STUDENT INFORMATION SYSTEM





# STUDENT INFORMATION



**ADD STUDENT**

Roll No

Name

Address

Course

Instructor

Exam

Residence

Back Add Next Exit

Clear



## Source Code ...

### Add Button...

```
import java. sql.*;  
import javax.swing.JOptionPane;  
  
int Roll No=Integer.parseInt(jTextField1.getText ());  
    String Name=tf2.getText ();  
    String Address=tf3.getText();  
    String Course=tf4.getText();  
    String Instructor=tf5.getText();  
    String Exam=tf6.getText();  
    String Residence=tf7.getText();  
    try {  
        Class.forName("java.sql.Driver");
```

### *Connection*

```
conn=DriverManager.getConnection("jdbc:mysql://localhost/studentin","root","system");
```

```
Statement st=conn.createStatement();
```

```
String sql="insert into student_new  
values('"+RollNo+"','"+Name+"','"+Address+"','"+Course+"','  
"+Instructor+"','"+Exam+"','"+Residence+"')";
```

```
st.executeUpdate(sql);
```

```
JOptionPane.showMessageDialog(null,"Record added");
```

```
st.close();
```

```
conn.close();
```

```
}
```

```
catch(Exception e){
```

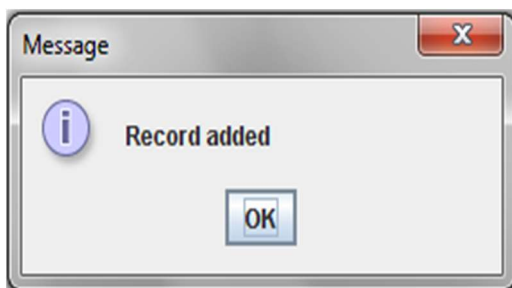
```
JOptionPane.showMessageDialog(null,e.getMessage());
```

```
}
```

```
}
```

### **Output For Add Button:-**

*By entering the records in respective fields and clicking on add button will record the data successfully in the database.*



## Back Button . . . .

```
WELCOME obj=new WELCOME () obj.setVisible  
(true)  
this.setVisible (false);
```

### Output For Back Button:-

By clicking on Back button will return to the Log In page.

## Clear Button. . .

```
jTextField1.setText(" ");  
tf2.setText(" ");  
tf3.setText(" ");  
tf4.setText(" ");  
tf5.setText(" ");  
tf6.setText(" ");  
tf7.setText(" ");
```

### Output For Clear Button:-

By clicking on Clear button the entered data will be cleared.

## Next Button...

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

### Output For Next Button:-

By clicking on next button you will proceed to the Search Student page.

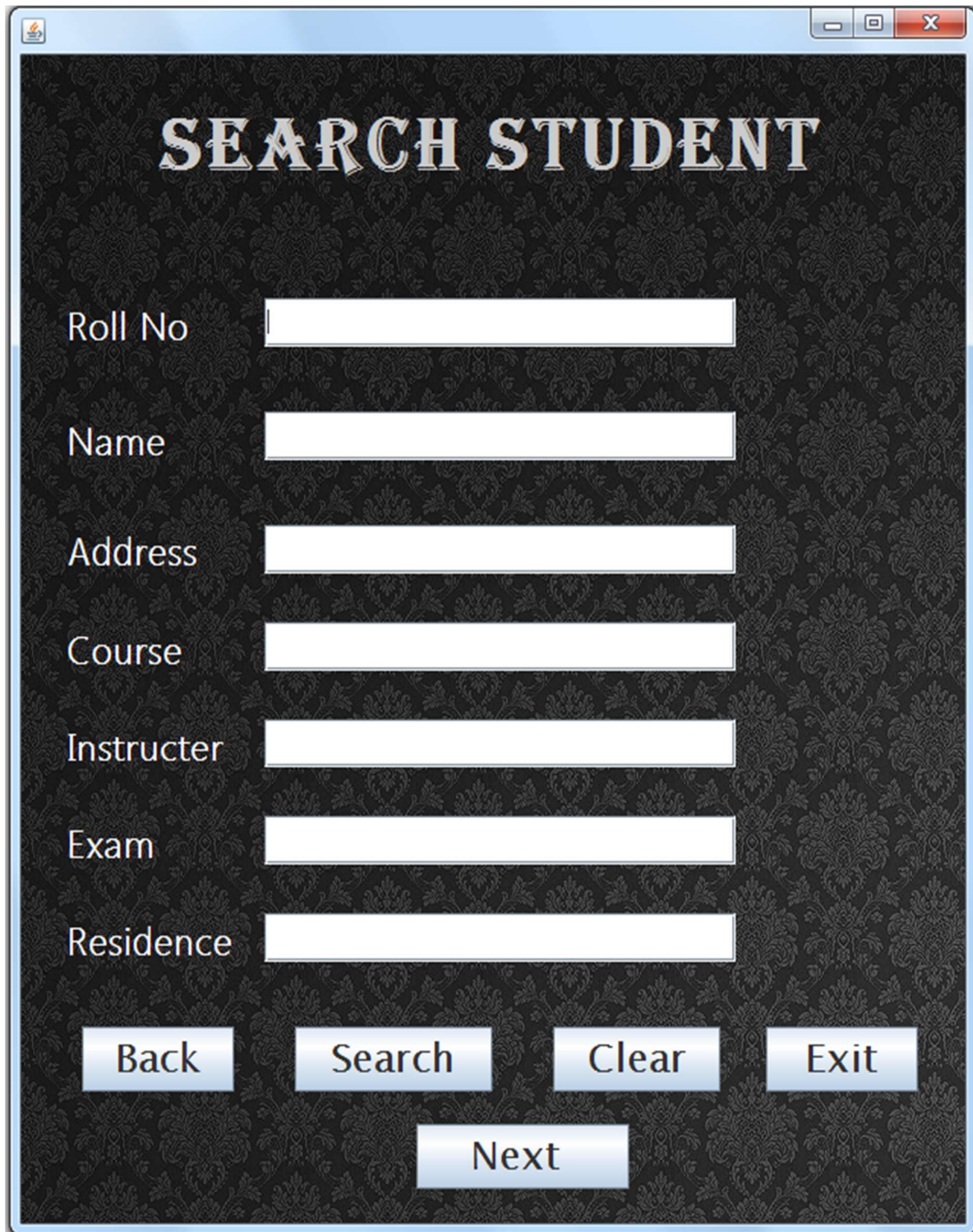
## Exit Button...

```
int a=JOptionPane.showConfirmDialog (null, "Want to  
exit");  
    if (a==JOptionPane.YES_OPTION){  
        System. exit(0);  
    }  
}
```

### Output For Exit Button:-

By clicking on Exit button the page will be closed.

# SEARCH STUDENT



**SEARCH STUDENT**

Roll No

Name

Address

Course

Instructor

Exam

Residence





Source....

Search Student...

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

try {
    Class.forName("java.sql.Driver");
    Connection
    conn=DriverManager.getConnection("jdbc:mysql://
    localhost/studentin","root","system");
    Statement st=conn.createStatement();
    int RollNo=Integer.parseInt(jTextField1.getText());
    String sql="select *from student_new where
    RollNo="+RollNo+";";
```

```
ResultSet rs=st.executeQuery(sql);
if(rs.next()){
int a=rs.getInt("RollNo");
String b=rs.getString("Name");
String c=rs.getString("Address");
String d=rs.getString("Course");
String e=rs.getString("Instructor");
String f=rs.getString("Exam");
String g=rs.getString("Residence");
jTextField1.setText(""+a);
tf2.setText(""+b);
tf3.setText(""+c);
tf4.setText(""+d);
tf5.setText(""+e);
tf6.setText(""+f);
tf7.setText(""+g);
}else{
JOptionPane.showMessageDialog(null,"Record Not Found!");
}
}
catch(Exception e){
JOptionPane.showMessageDialog(null,"Error In Connectivity");
}
}
```



### *Output For Search Button:-*

*By clicking on search button the data you want to search will be displayed .*

### *Clear Button...*

```
jTextField1.setText(" ");  
tf2.setText(" ");  
tf3.setText(" ");  
tf4.setText(" ");  
tf5.setText(" ");  
tf6.setText(" ");  
tf7.setText(" ");  
}
```

### *Output For Clear Button:-*

*By clicking on Clear button the entered data will be cleared.*

### *Back Button .....*

```
new addstudent().setVisible(true);  
this.dispose();
```

### *Output For Back Button:-*

*By clicking on Back button will return to the Add Student page.*

## *Next Button*

*new deletestudent().setVisible(true);*

### *Output For Next Button:-*

*By clicking on next button you will proceed to the Delete Student page.*

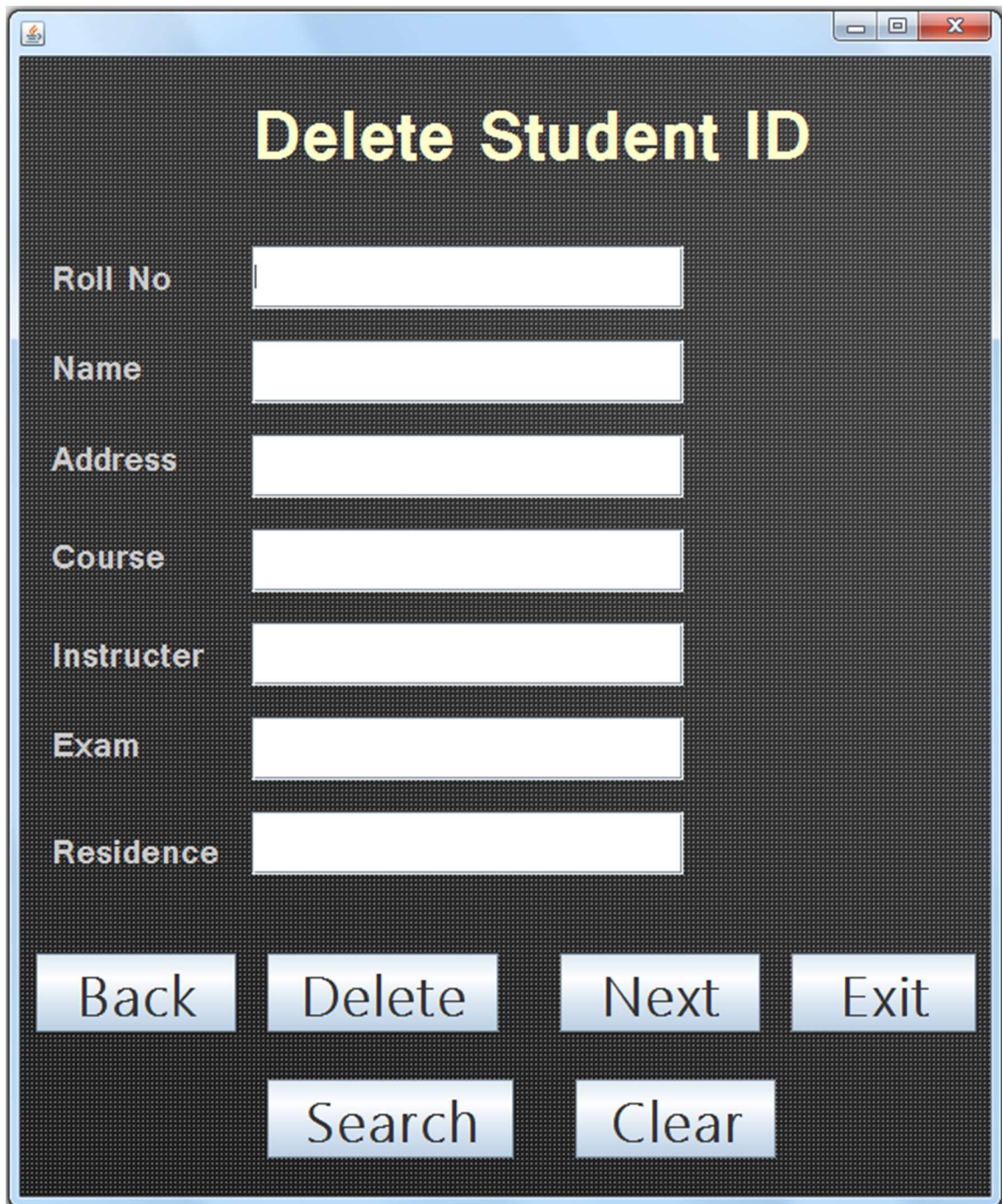
## *Exit Button....*

```
int a=JOptionPane.showConfirmDialog (null,  
"Want to exit");  
if (a==JOptionPane.YES_OPTION){  
System. exit(0);  
}  
}
```

### *Output For Exit Button:-*

*By clicking on Exit button the page will be closed.*

# DELETE STUDENT ID



A screenshot of a software window titled "Delete Student ID". The window has a dark gray background with a light blue border and standard Windows window controls (minimize, maximize, close) in the top right corner. The title "Delete Student ID" is displayed in a large, bold, yellow font at the top center. Below the title, there are seven input fields, each preceded by a label in a bold, light blue font: "Roll No", "Name", "Address", "Course", "Instructor", "Exam", and "Residence". Each input field is a white rectangle with a thin gray border. At the bottom of the window, there are six buttons with a light blue gradient and a slight shadow effect. The buttons are arranged in two rows: the top row contains "Back", "Delete", "Next", and "Exit"; the bottom row contains "Search" and "Clear".

**Delete Student ID**

Roll No

Name

Address

Course

Instructor

Exam

Residence

Back Delete Next Exit

Search Clear



Source....

Delete Button...

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

try {
    Class.forName("java.sql.Driver");
    Connection
conn=DriverManager.getConnection("jdbc:mysql://lo
calhost/studentin","root","system");
    Statement st=conn.createStatement();
    String sql="DELETE FROM student_new
WHERE Rollno="+jTextField1.getText()+"";
```

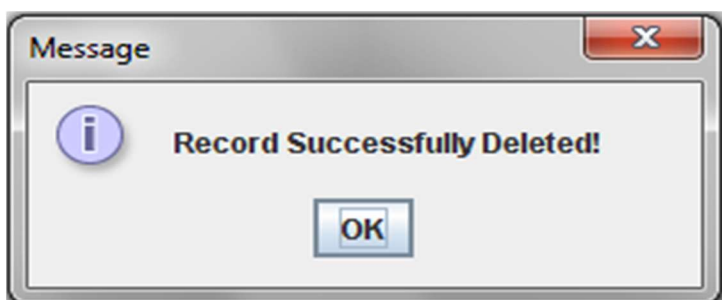
```
        st.executeUpdate(sql);
        JOptionPane.showMessageDialog(null, "Record
        Successfully Deleted!");
        st.close();
        conn.close();
    }
    catch(Exception e){

        JOptionPane.showMessageDialog(null, e.getMessage(
        ));
    }
}

new searchstudent().setVisible(true);
this.dispose();
}
```

### Output For Delete Button:-

By clicking on Delete button the data you want to delete will be deleted.



## *Clear Button...*

```
jTextField1.setText(" ");  
    tf2.setText(" ");  
    tf3.setText(" ");  
    tf4.setText(" ");  
    tf5.setText(" ");  
    tf6.setText(" ");  
    tf7.setText(" ");  
}
```

### *Output For Clear Button:-*

*By clicking on Clear button the entered data will be cleared.*

## *Back Button...*

```
new addstudent().setVisible(true);  
    this.dispose();  
}
```

### *Output For Back Button:-*

*By clicking on Back button will return to the Search Student page.*

## Search Student...

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

try {
    Class.forName("java.sql.Driver");
    Connection
    conn=DriverManager.getConnection("jdbc:mysql://
    localhost/studentin","root","system");
    Statement st=conn.createStatement();
    int
    RollNo=Integer.parseInt(jTextField1.getText());
    String sql="select *from student_new where
    RollNo="+RollNo+"";
    ResultSet rs=st.executeQuery(sql);
    if(rs.next()){
        int a=rs.getInt("RollNo");
        String b=rs.getString("Name");
        String c=rs.getString("Address");
        String d=rs.getString("Course");
        String e=rs.getString("Instructor");
        String f=rs.getString("Exam");
```

```

String g=rs.getString("Residence");
jTextField1.setText(" "+a);
tf2.setText(" "+b);
tf3.setText(" "+c);
tf4.setText(" "+d);
tf5.setText(" "+e);
tf6.setText(" "+f);
tf7.setText(" "+g);
}else{
    JOptionPane.showMessageDialog(null,"Record
Not Found!");
}
}
catch(Exception e){
    JOptionPane.showMessageDialog(null,"Error
In Connectivity");
}
}

```

### Output For Search Button:-

By clicking on search button the data you want to search will be displayed .



### Next Button...

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

### Output For Next Button:-

*By clicking on next button you will proceed to the Update Student page.*

### Back Button ....

```
new searchstudent().setVisible(true);  
this.dispose();
```

### Output For Back Button:-

*By clicking on Back button will return to the Search Student page.*

### Exit Button....

```
int a=JOptionPane.showConfirmDialog (null,  
"Want to exit");  
if (a==JOptionPane.YES_OPTION){  
    System. exit(0);  
}  
}
```

### Output For Exit Button:-

*By clicking on Exit button the page will be closed.*

# UPDATE STUDENT

**Update Student ID**

Roll No

Name

Address

Course

Instructor

Exam

Residence

*Update*

RollNo  
RollNo  
Name  
Address  
Course  
Instructor  
Exam  
Resident

Back Clear Search Update

Exit



Source....

Update Student...

```
try {
    Class.forName("java.sql.Driver");
    Connection
conn=DriverManager.getConnection("jdbc:mysql://localhost/stu
dentin","root","system");
    Statement st=conn.createStatement();
    int ID=Integer.parseInt(jTextField1.getText());
    String com=(String)jComboBox1.getSelectedItem();
    String a=jTextField1.getText();
    String sql="UPDATE student_new
SET"+com+"="+a+" where Rollno="+RollNo+"";
    st.executeUpdate(sql);
    JOptionPane.showMessageDialog(null,"Record
Successfully Updated!");
    st.close();
}
```

}

### Output For Update Button:-

*By clicking on Update button the data you want to update will be updated.*

### Search Student

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

try {
    Class.forName("java.sql.Driver");
    Connection
    conn=DriverManager.getConnection("jdbc:mysql://
    localhost/studentin","root","system");
    Statement st=conn.createStatement();
    int
    RollNo=Integer.parseInt(jTextField1.getText());
    String sql="select *from student_new where
    RollNo="+RollNo+"";
    ResultSet rs=st.executeQuery(sql);
```

```
if(rs.next()){
    int a=rs.getInt("RollNo");
    String b=rs.getString("Name");
    String c=rs.getString("Address");
    String d=rs.getString("Course");
    String e=rs.getString("Instructor");
    String f=rs.getString("Exam");
    String g=rs.getString("Residence");
    jTextField1.setText(" "+a);
    tf2.setText(" "+b);
    tf3.setText(" "+c);
    tf4.setText(" "+d);
    tf5.setText(" "+e);
    tf6.setText(" "+f);
    tf7.setText(" "+g);
}else{
    JOptionPane.showMessageDialog(null,"Record
Not Found!");
}
}
catch(Exception e){
```

```
JOptionPane.showMessageDialog(null, "Error  
In Connectivity");  
    }  
}
```

### Output For Search Button:-

*By clicking on search button the data you want to search will be displayed .*

### Clear Button...

```
jTextField1.setText(" ");  
tf2.setText(" ");  
tf3.setText(" ");  
tf4.setText(" ");  
tf5.setText(" ");  
tf6.setText(" ");  
tf7.setText(" ");
```

### Output For Clear Button:-

*By clicking on Clear button the entered data will be cleared*

## *Exit Button....*

```
int a=JOptionPane.showConfirmDialog (null,  
    "Want to exit");  
    if (a==JOptionPane.YES_OPTION){  
        System. exit(0);  
    }  
}
```

## *Output For Exit Button:-*

*By clicking on Exit button the page will be closed.*

# **Bibliography**

**The content for this Informatics Practices project has been made with the help of the following source:**



**Informatics Practices Class  
12<sup>th</sup>**

**(Sumita Arora)**

**Education is the  
passport to the  
future, for  
tomorrow belongs  
to those who  
prepare for it today.**

**-Malcolm X**

**[www.bestinspirationalthoughts.com](http://www.bestinspirationalthoughts.com)**



THANK YOU