STUDENT DETAILS MANAGEMENT SYSTEM REPORT

INDEX

INTRODUCTION

The project “STUDENT DETAIL MANAGEMENT SYSTEM” is a Java JSP and MySQL Project which runs on the NetBeans. We have developed this java JSP and MySQL Project on “STUDENT DETAIL MANAGEMENT” for automating the process of Student Information System.The main feature of this project is the teacher can search, add, delete student details after login.

The database used in this project is MySQL hence all the data generate in this project is securely added to MySQL and retrieve from MySQL database.

OBJECTIVE

The main objective of the project is to ease the work of the teachers by adding their student details from where they can access the details of any student and any time. This project is basically a record project in which teacher add the record of their students to access these records when it needed. Teacher can login in this Java JSP project by the default password “teacher” and then he/she can check the list of all students, can add details of more student, can delete details of students and can search the details of any student by there respective Roll numbers.

SYSTEM ANALYSIS

SYSTEM ANALYSIS is the process of observing systems for troubleshooting or development purposes. It is applied to information technology where computer based systems require defined analysis according to their makeup and design.

It is a method of figuring out the basic elements of a project and deciding how to combine them in the best way to solve a problem .

It includes the FEASIBILITY STUDY of the project.

A feasibility study evaluates the project's potential for success. The purpose behind a **project feasibility study** is to know the different variables involved with your business venture and how it will be accepted on the open market along with who will be the target audience . Various types of feasibility that are commonly considered include technical feasibility, operational feasibility, and economic feasibility.

Acc. to Technical Feasibility Study, this application is feasible (or within the bound of possibility) as it requires basic technical skills and not the high upgraded software or tools.

Acc. to Operational Feasibility Study, this application is feasible to much extend as it is up to user’s requirement and satisfaction.

Acc. To Economic Feasibility Study, this application is feasible as the development cost is not high & is user friendly, it can produce gains to a great extend.

FEASIBILITY STUDY

Technical Feasibility:

“STUDENT DETAILS MANAGEMENT SYSTEM” application requires very basic knowledge of handling the any software.

User only have to enter the details related to student personal details and login details.

Operational Feasibility:

“STUDENT DETAILS MANAGEMENT SYSTEM” application solve the user problem of maintaining a record of students. User can check the student details anytime with the help of this project.

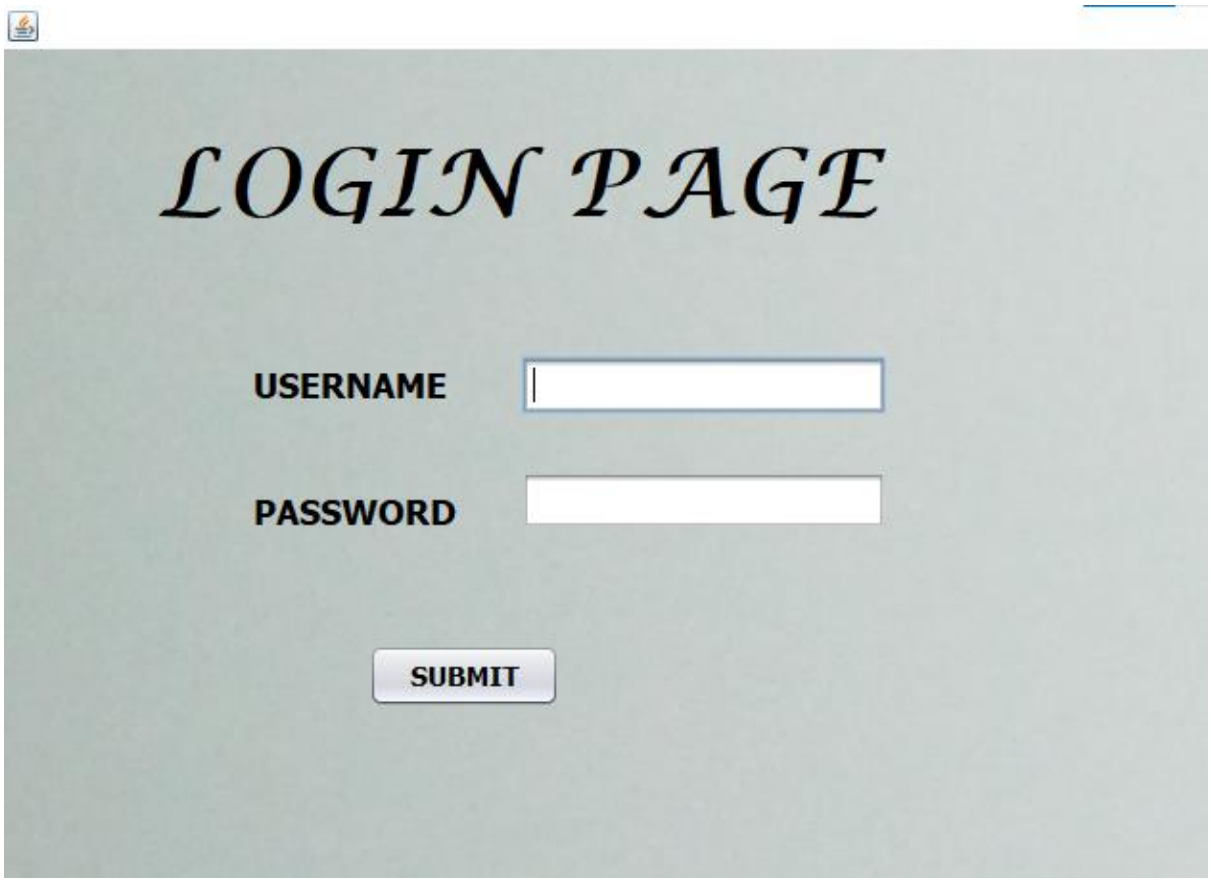
Economic Feasibility:

The cost of Maintaining the “STUDENT DETAILS MANAGEMENT SYSTEM” application is very low. There is no requirement of Internet connection to use the application.

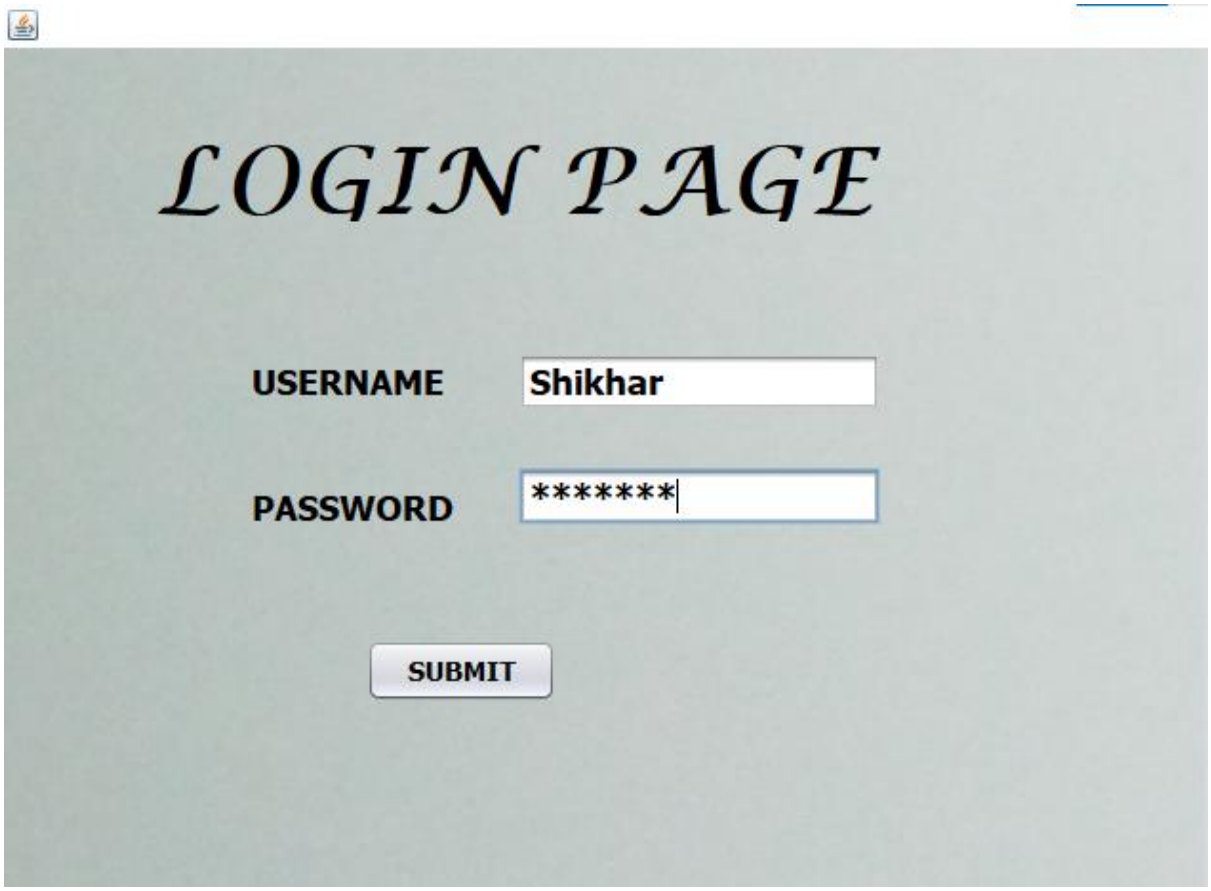
All the data will save on user device.

It is user friendly. User don’t need to understand it deeply.

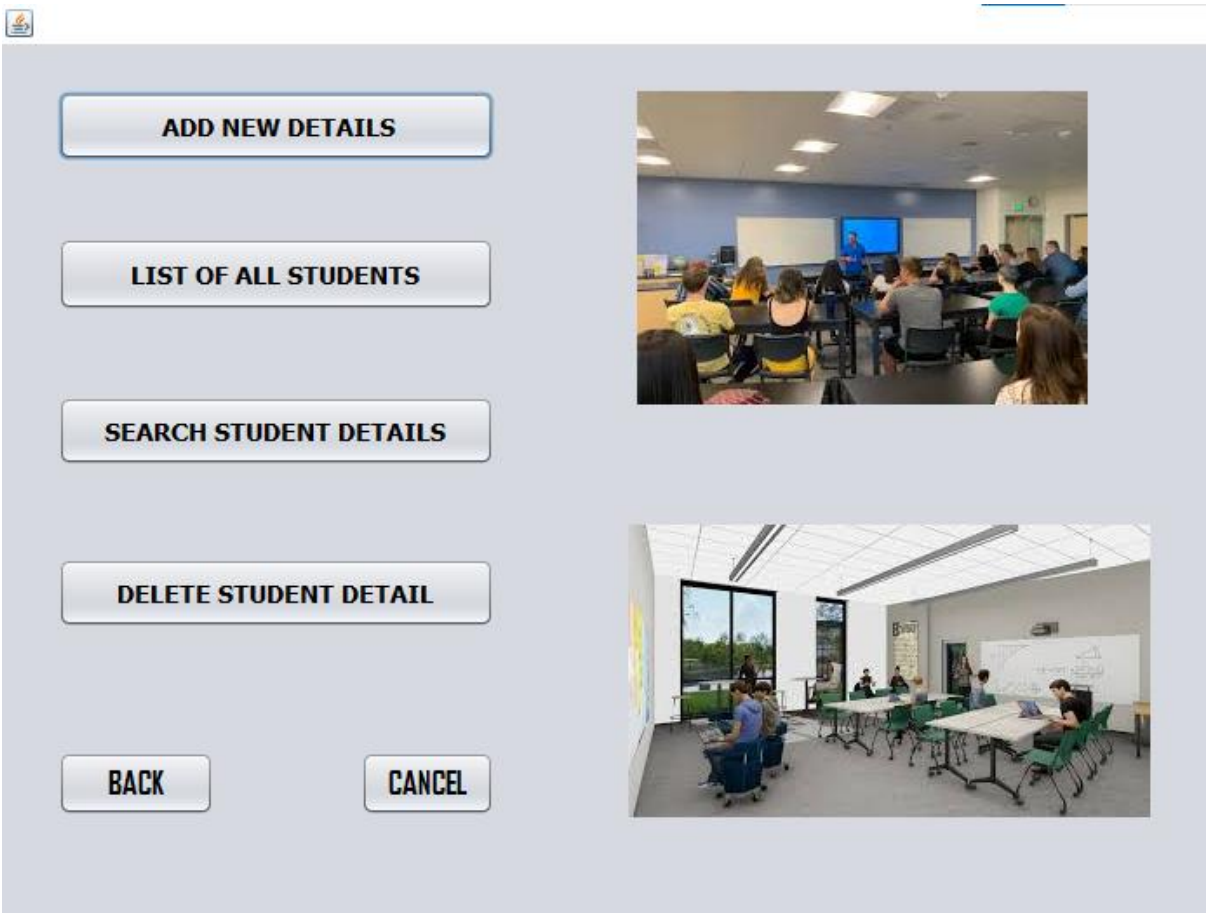
WORKING AND SCREENSHOTS OF PROJECT



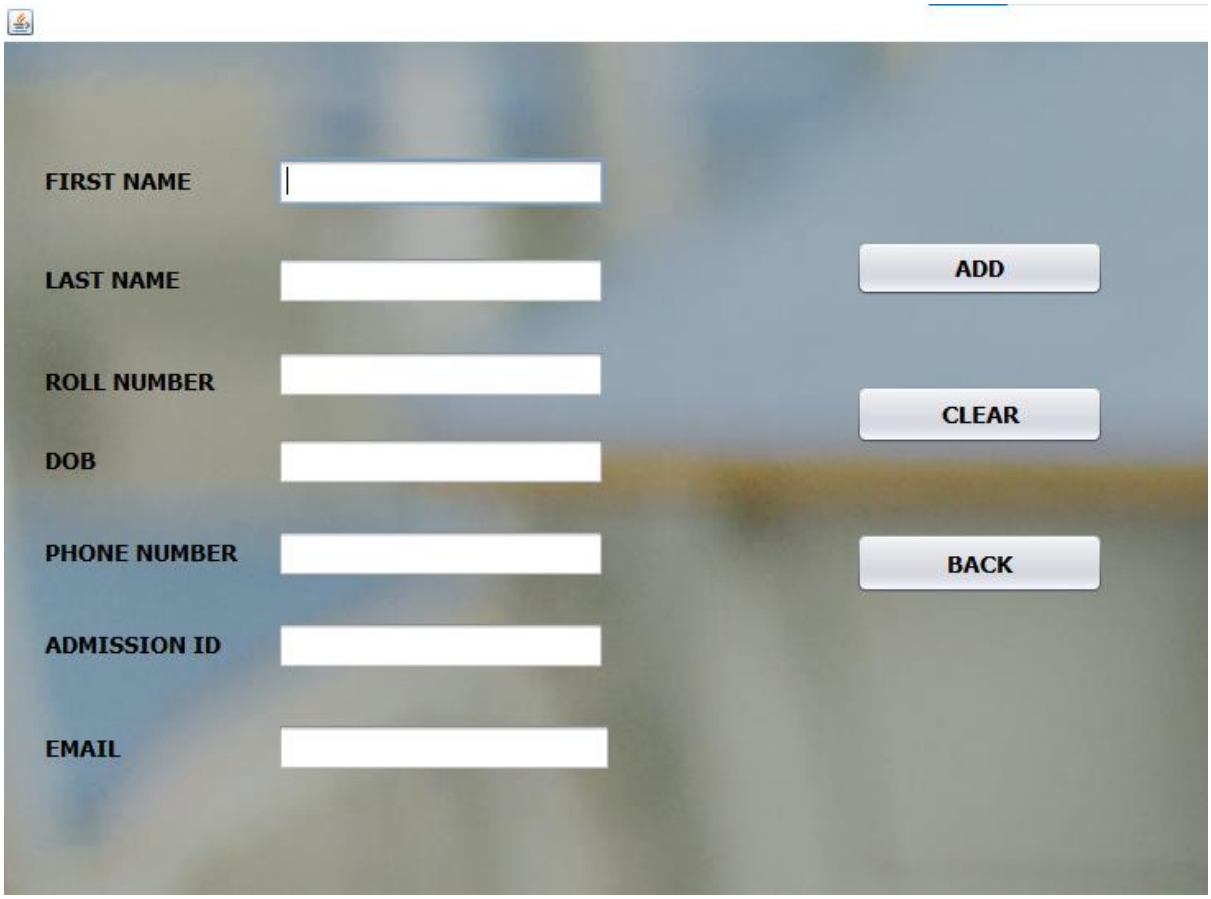
This is the first page of the project which is login page we have to enter the username and password to login.



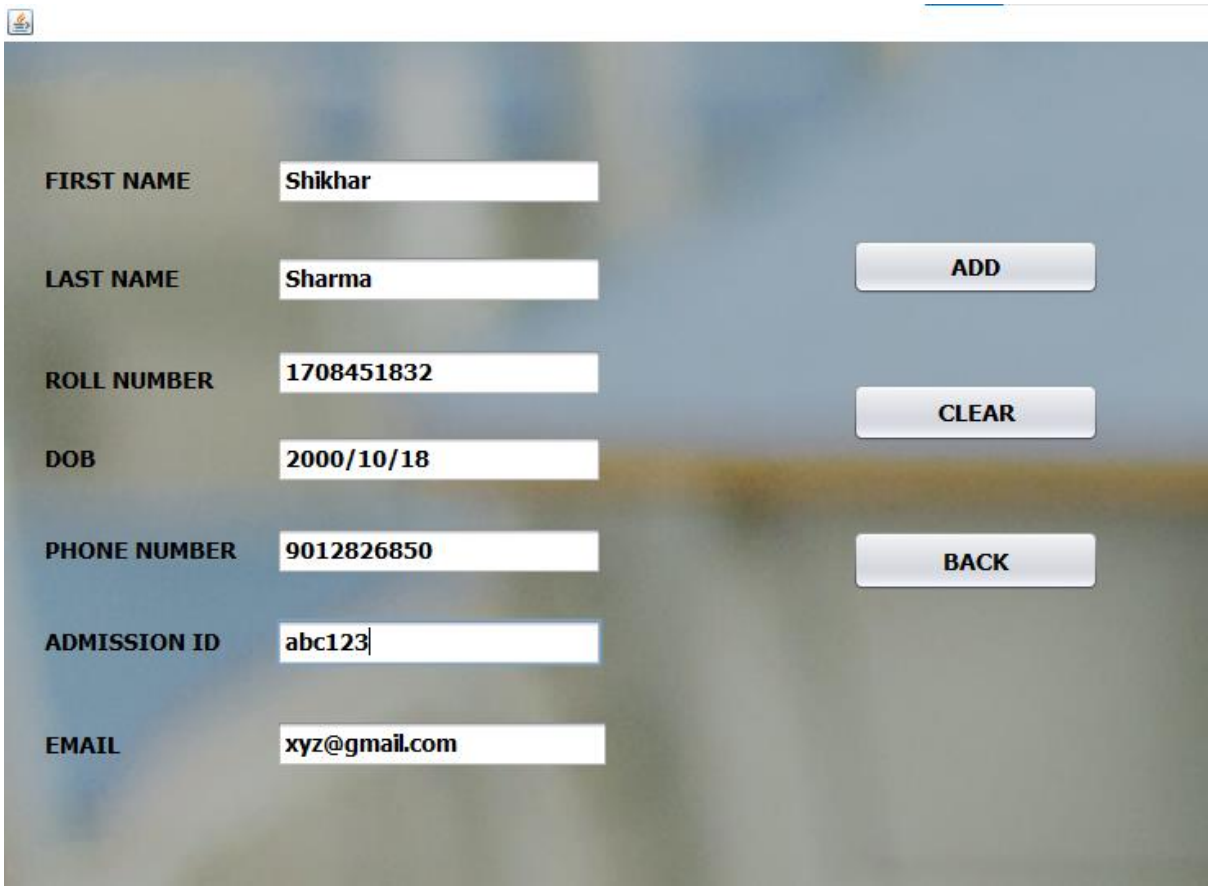
The default Password of the project is “teacher” you have to enter the username and password to login.



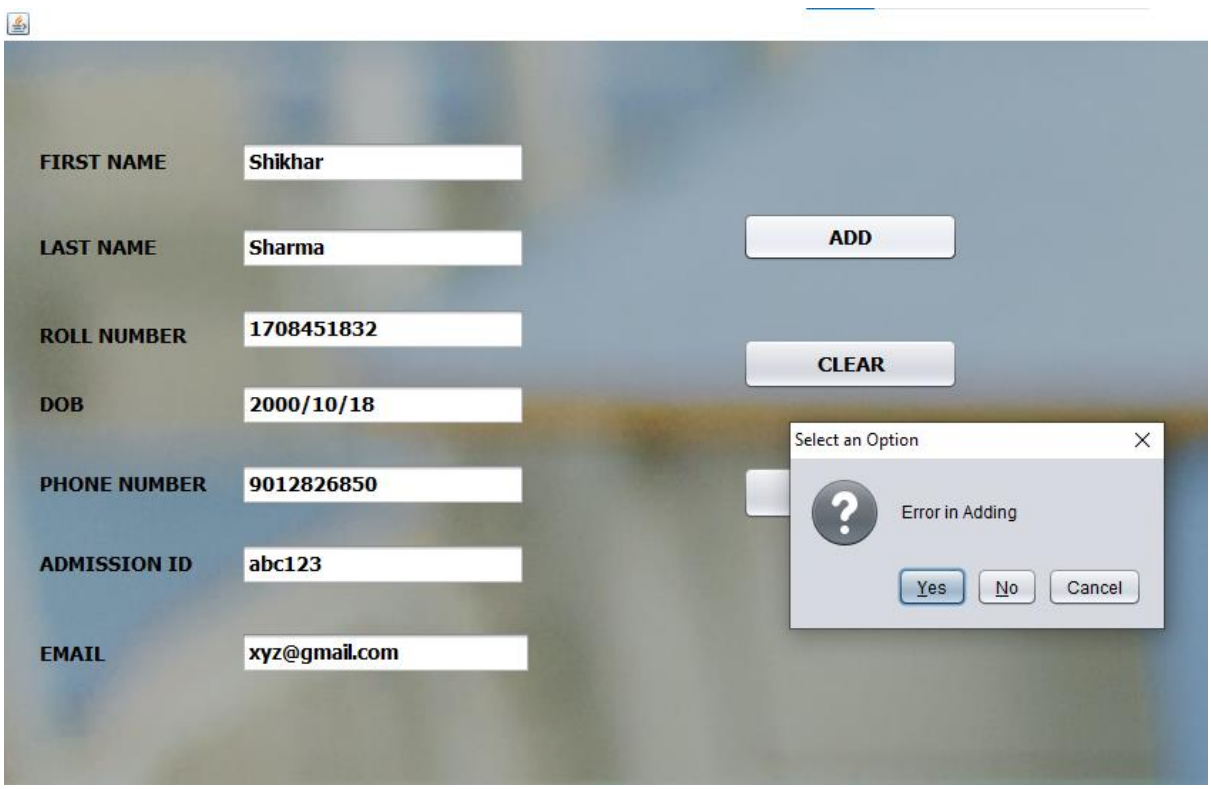
After login this page of the project opens. In which you have four options with the help of which you can add, search and delete the student deatails and check the list of all student whose data is added successfully.

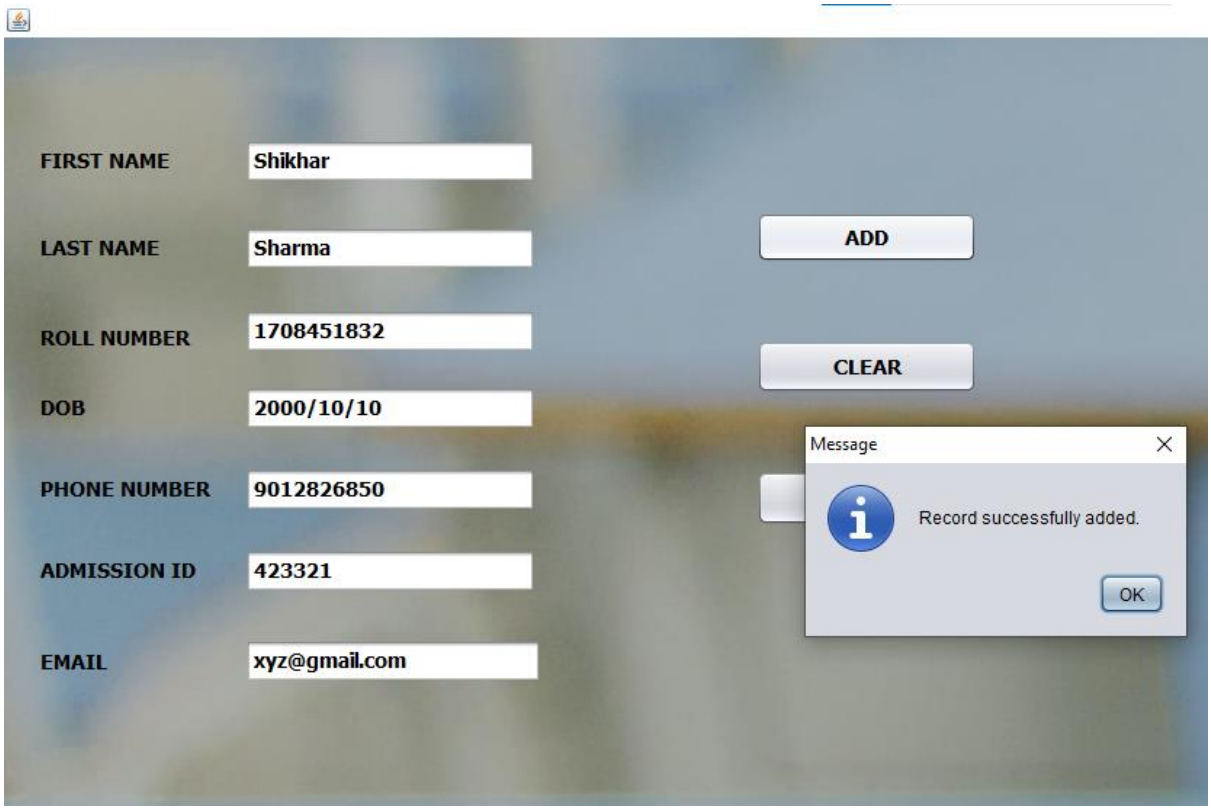


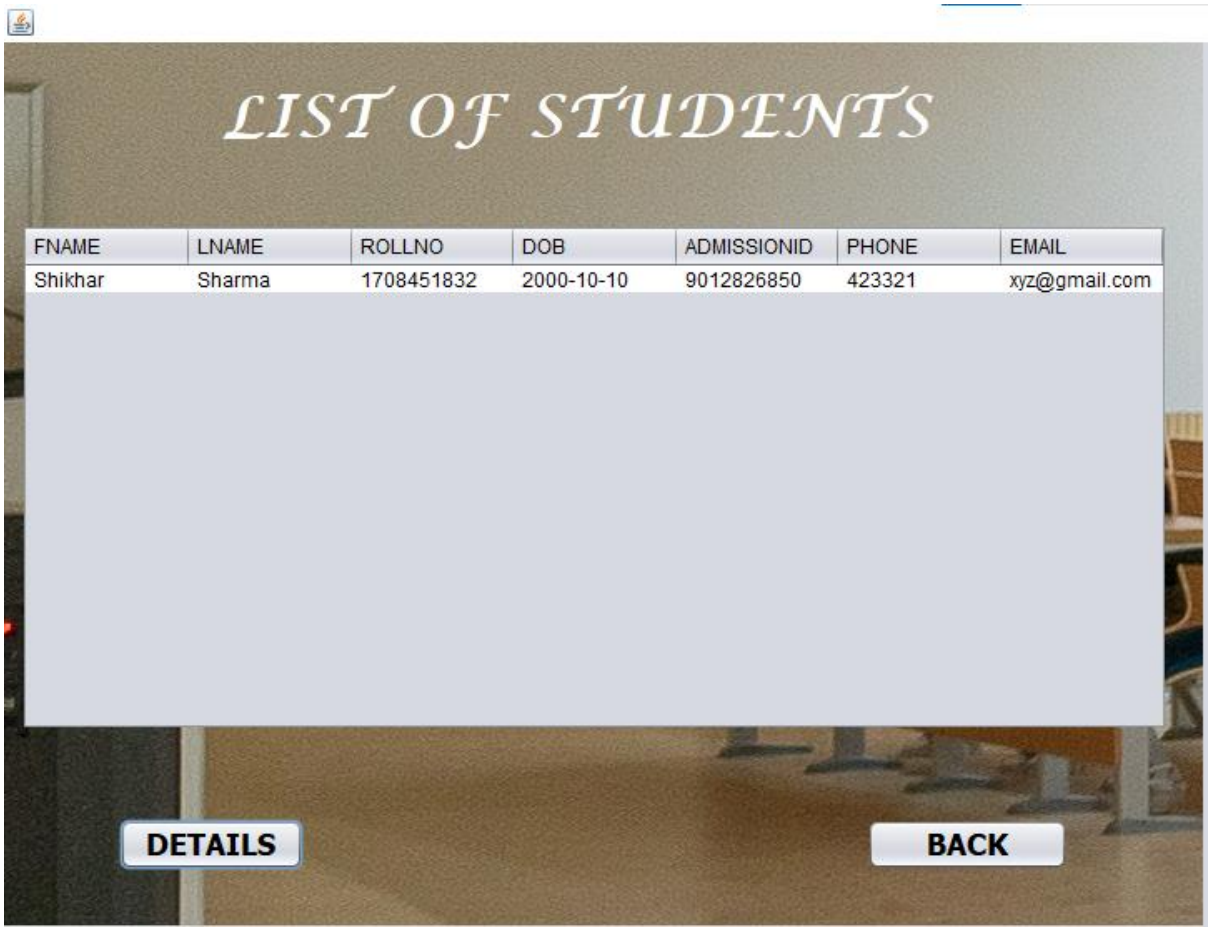
When user click on first option “Add New Details” then this page open in which user have to enter all the related details of the students correctly.



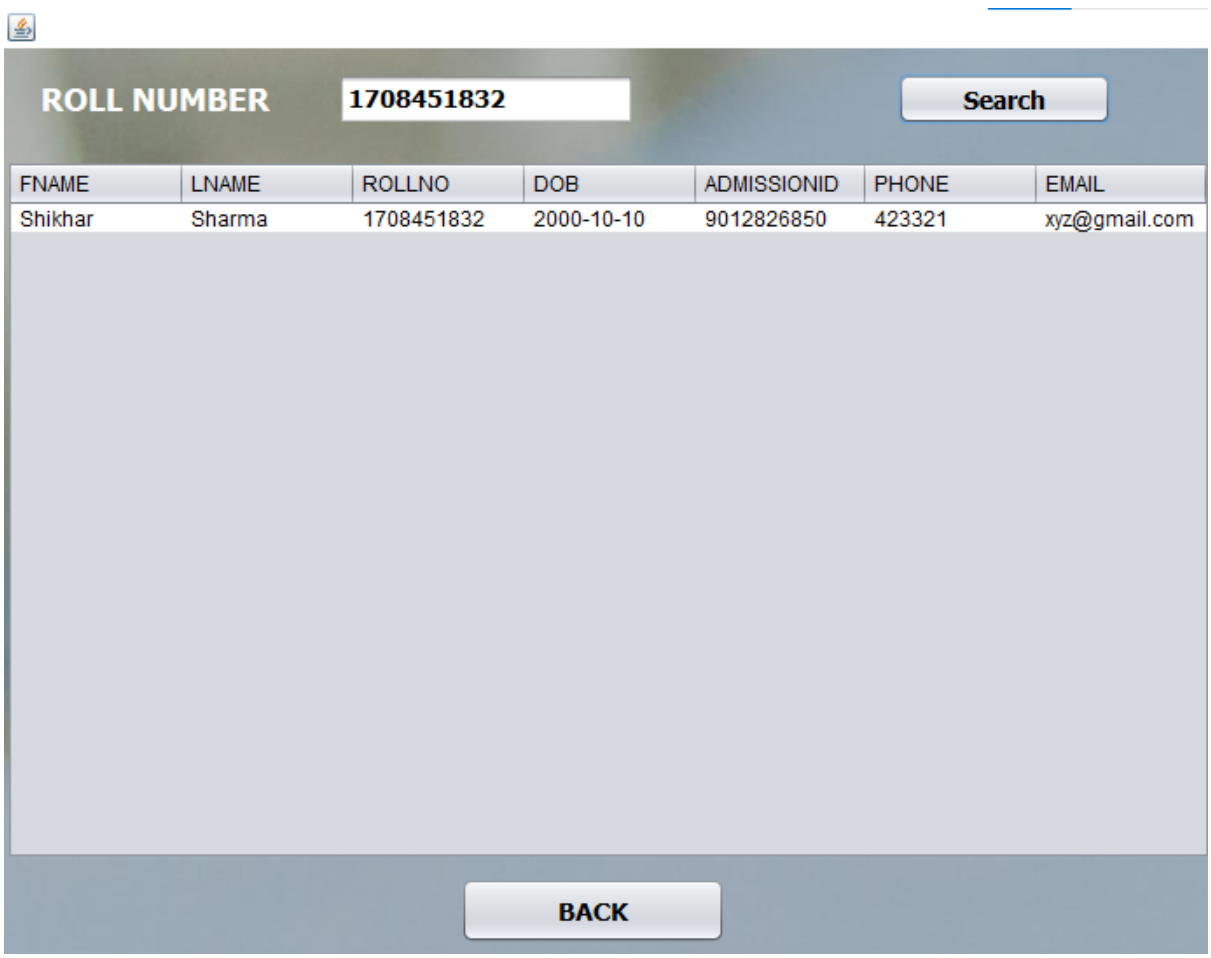
After entering the details you have to press ADD button if the details are not correct then the dialog box pop up and show the error if the details are correct then dialog box through the message "Record successfully added" as shown in the screenshots below.


FIRST NAME
Shikhar
LAST NAME
Sharma
ROLL NUMBER
1708451832
DOB
2000/10/18
PHONE NUMBER
9012826850
ADMISSION ID
abc123
EMAIL
xyz@gmail.com
ADD
CLEAR
Select an Option
Error in Adding
Yes
No
Cancel

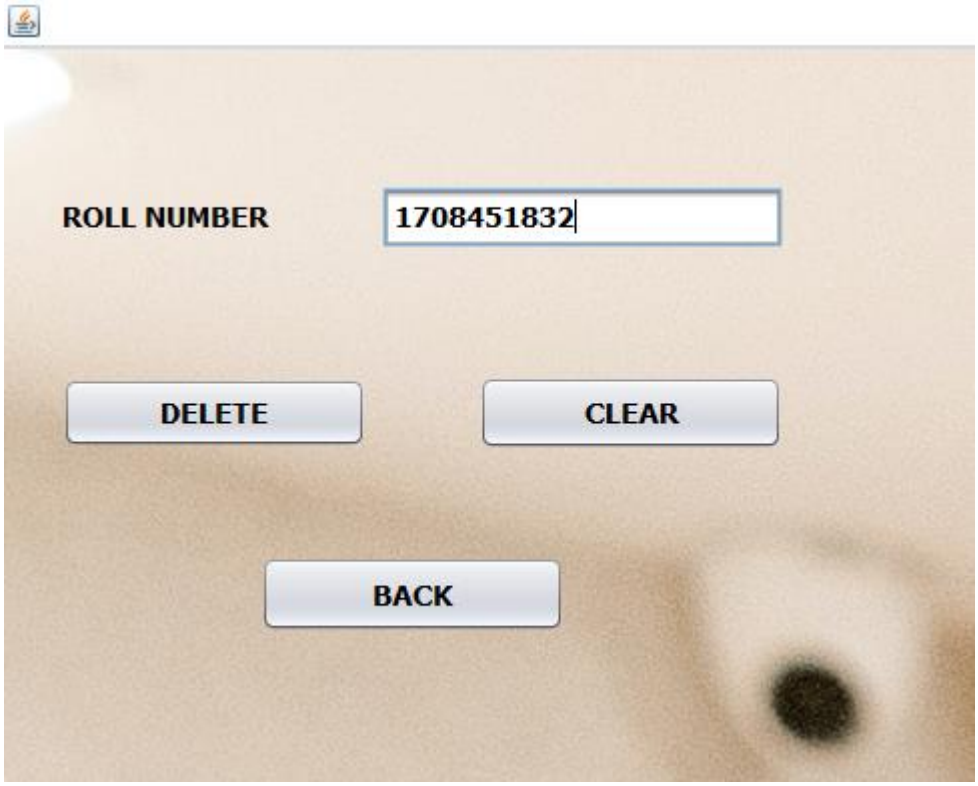

FIRST NAME
Shikhar
LAST NAME
Sharma
ROLL NUMBER
1708451832
DOB
2000/10/10
PHONE NUMBER
9012826850
ADMISSION ID
423321
EMAIL
xyz@gmail.com
ADD
CLEAR
Message
Record successfully added.
OK



If user choose the second option means “List of All Students” then this page opens and after clicking the details button all the details of student are showed up on the table whose data is entered by the user. As we only enter one data so, only one row is showed up in the above table.

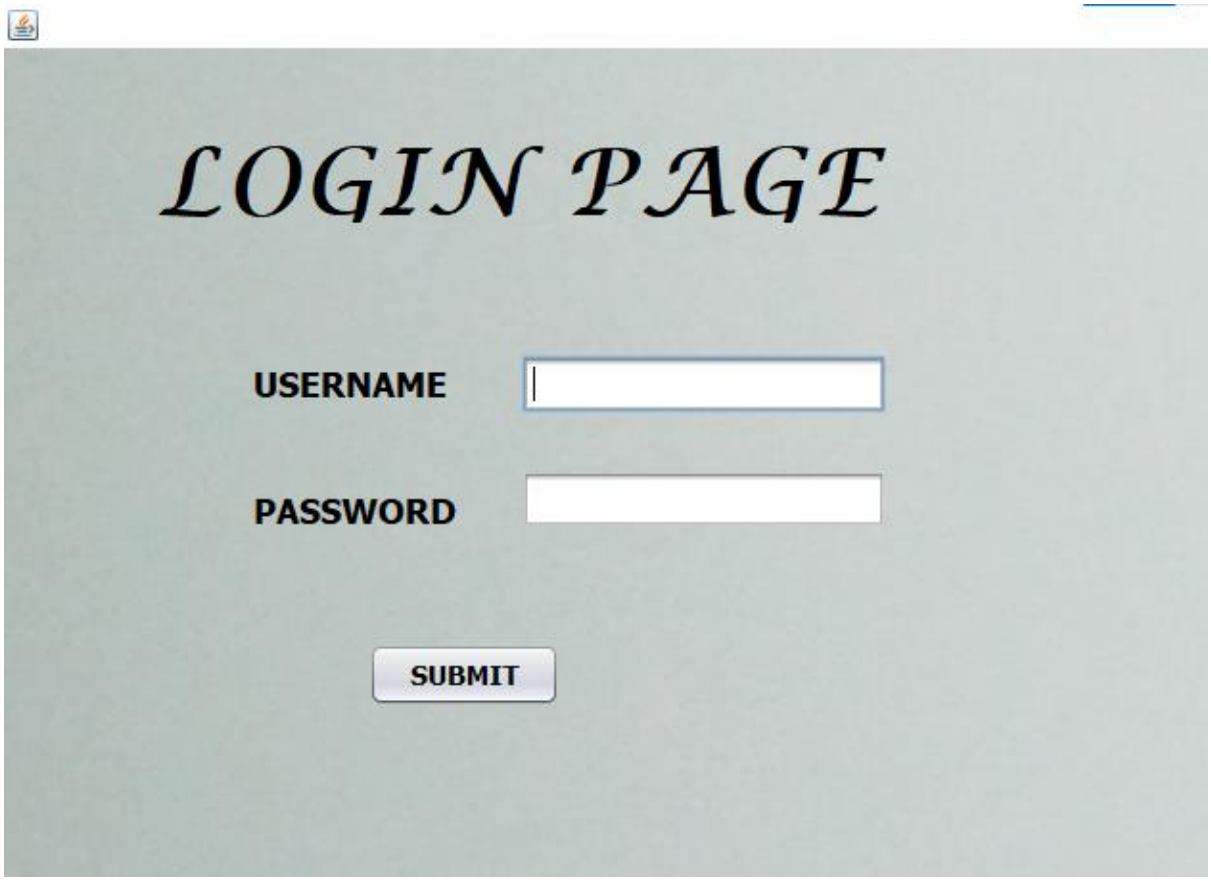


We can search the details of any student by entering their respective Roll Number if we choose the third option “Search Student Details”.

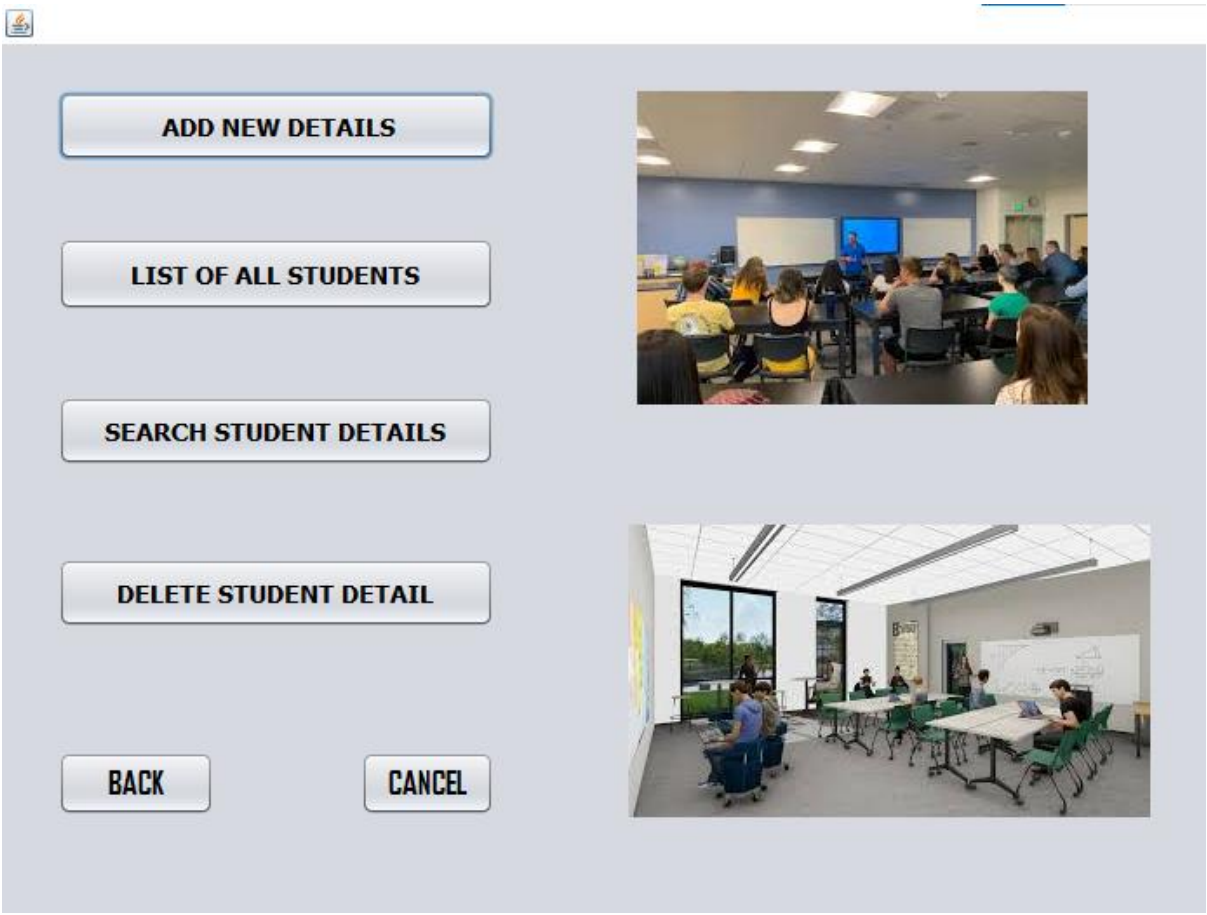


If we choose the last option means “Delete Student Details” then we can delete the details of any student by providing the Roll Number of the student and simply Clicking on the Delete button.

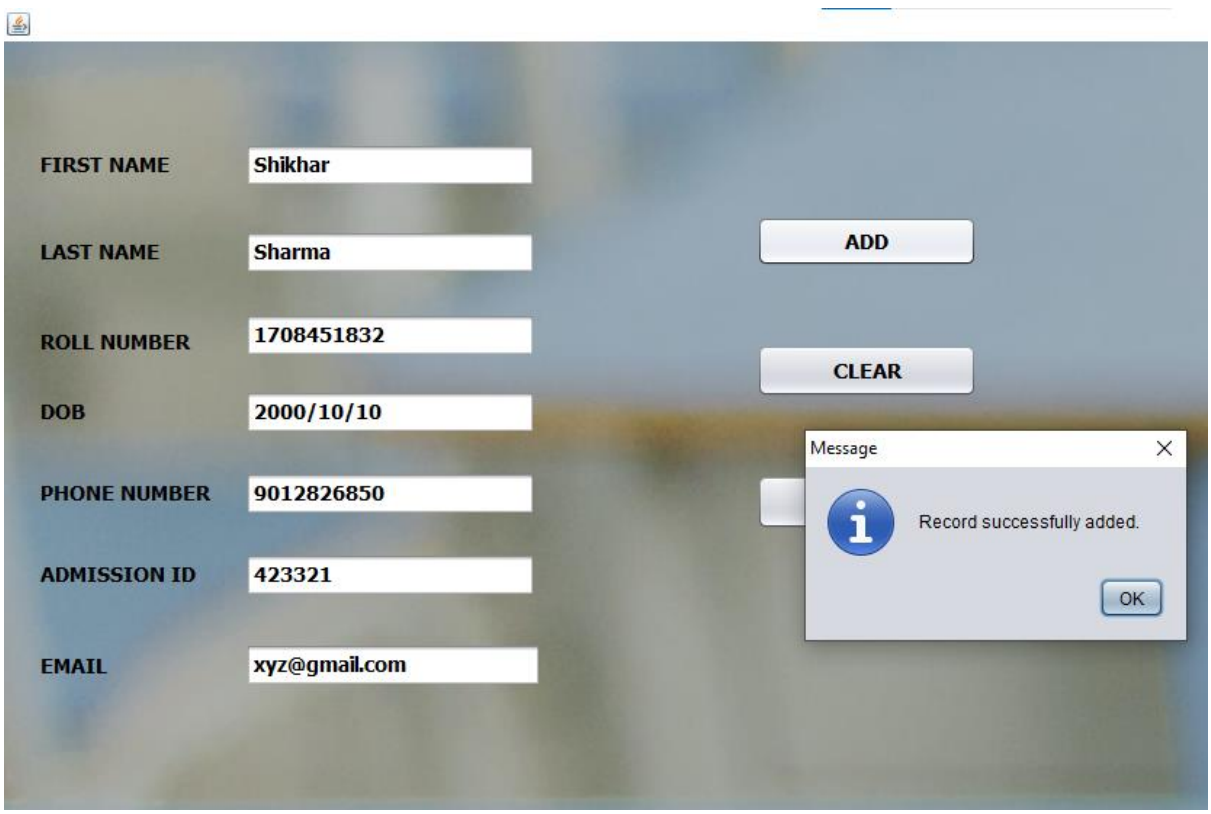
DESIGN AND CODE SCREENSHOTS OF THE PROJECT



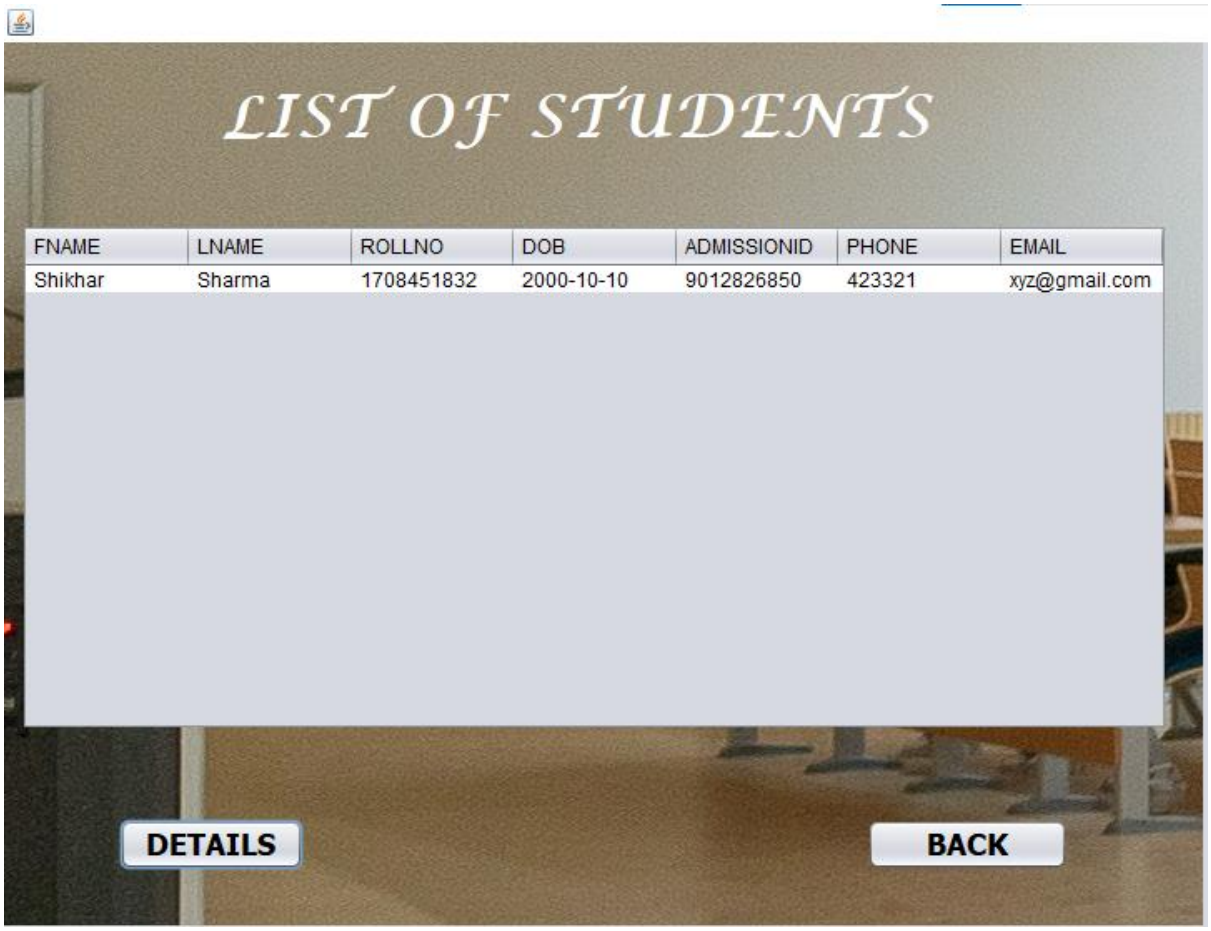

```
     * WARNING: Do Not Modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    Generated Code

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

        String pwd = new String(p1.getPassword());

        if(pwd.equals("teacher"))
        {
            login.this.setVisible(false);
            new s1().setVisible(true);
        }
        else
        {
            JOptionPane.showMessageDialog(jDialog1, "Error! Try Again.", "Error Message Box", JOptionPane.ERROR_MESSAGE);
        }// TODO add your handling code here:
    }

    private void t1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        Look and feel setting code (optional)
```



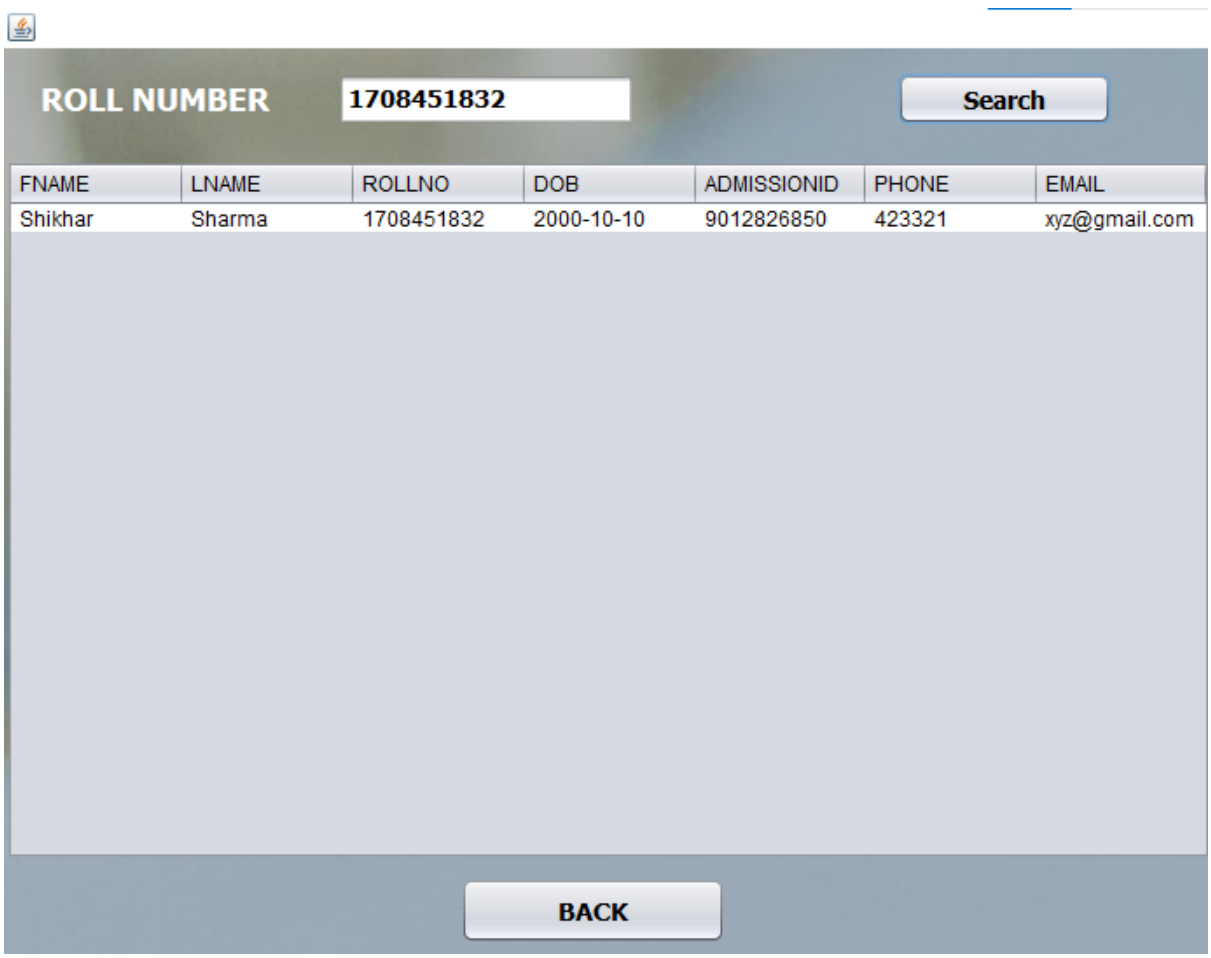

```java
    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
        sl.this.setVisible(false);
        new login().setVisible(true);
        // TODO add your handling code here:
    }

    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
        sl.this.setVisible(false);
        new search().setVisible(true);        // TODO add your handling code here:
    }

    private void b5ActionPerformed(java.awt.event.ActionEvent evt) {
        sl.this.setVisible(false);
        new delete().setVisible(true);// TODO add your handling code here:
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        sl.this.setVisible(false);
        new add().setVisible(true);        // TODO add your handling code here:
    }

    private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {
        sl.this.setVisible(false);
        new list().setVisible(true);        // TODO add your handling code here:
    }

    private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {
        System.exit(0);        // TODO add your handling code here:
    }
```



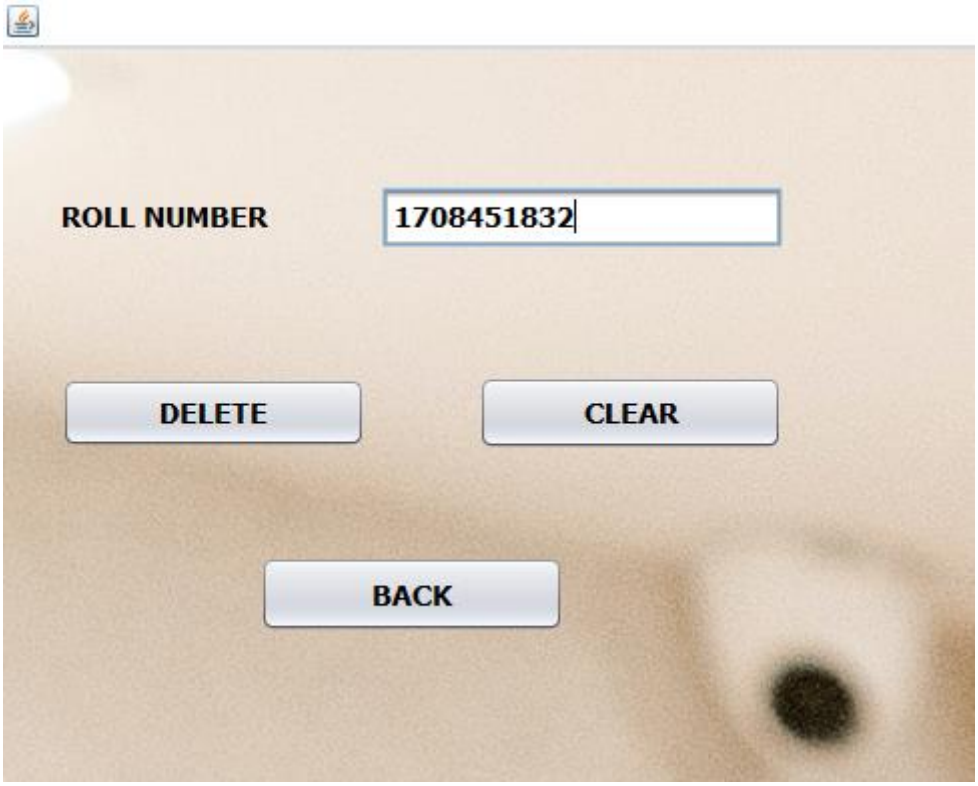

```java
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    try
    {
        Class.forName("java.sql.Driver");
        Connection con = (Connection) DriverManager.getConnection("jdbc:mysql://localhost:3306/test", "root" , "abhil2317");

        Statement stmt = (Statement) con.createStatement();
        String query = "INSERT INTO sd VALUES('"+t1.getText()+"','"+t2.getText()+"','"+t3.getText()+"','"+t4.getText()+"',"
                + "'"+t5.getText()+"','"+t6.getText()+"','"+t7.getText()+"');";

        stmt.executeUpdate(query);
        JOptionPane.showMessageDialog(null, "Record successfully added.");
    }

    catch(HeadlessException | ClassNotFoundException | SQLException e){
        JOptionPane.showConfirmDialog(null, "Error in Adding");
    }
    // TODO add your handling code here:
}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    t1.setText("");
    t2.setText("");
    t3.setText("");
    t4.setText("");
    t5.setText("");
    t6.setText("");
    t7.setText("");
```




```java
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

    DefaultTableModel model =  (DefaultTableModel) T1.getModel();
    try{
        Class.forName("java.sql.Driver");
        Connection con = (Connection) DriverManager.getConnection("jdbc:mysql://localhost:3306/test", "root" , "abhil2317");
        Statement stmt = (Statement) con.createStatement();
        String query = "SELECT * FROM SD;";
        ResultSet rs = stmt.executeQuery(query);
        while(rs.next()){
            String Fname = rs.getString("FNAME");
            String lname = rs.getString("LNAME");
            String roll = rs.getString("ROLLNO");
            String dob = rs.getString("DOB");
            String admission = rs.getString("ADMISSION_ID");
            String phone = rs.getString("PHONE");
            String email = rs.getString("EMAIL");

            model.addRow(new Object[] {Fname, lname, roll, dob, admission, phone, email});

        }

    }
    catch(ClassNotFoundException | SQLException e){
        JOptionPane.showMessageDialog(null,"Error");
    }
    // TODO add your handling code here:
```




```java
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    DefaultTableModel model =  (DefaultTableModel) T1.getModel();
    try{
        Class.forName("java.sql.Driver");
        Connection con = (Connection) DriverManager.getConnection("jdbc:mysql://localhost:3306/test", "root" , "abhi12317");
        Statement stmt = (Statement) con.createStatement();
        String query = "SELECT * FROM SD WHERE ROLLNO = "+t1.getText()+";";
        ResultSet rs = stmt.executeQuery(query);
        while(rs.next()){
            String Fname = rs.getString("FNAME");
            String lname = rs.getString("LNAME");
            String roll = rs.getString("ROLLNO");
            String dob = rs.getString("DOB");
            String admission = rs.getString("ADMISSION_ID");
            String phone = rs.getString("PHONE");
            String email = rs.getString("EMAIL");

            model.addRow(new Object[] {Fname, lname, roll, dob, admission, phone, email});

        }

    }
    catch(ClassNotFoundException | SQLException e){
        JOptionPane.showMessageDialog(null,"Error");
    }     // TODO add your handling code here:
}
```




```java
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

    try
    {
        Class.forName("java.sql.Driver");
        Connection con = (Connection) DriverManager.getConnection("jdbc:mysql://localhost:3306/test", "root" , "abhil2317");

        Statement stmt = (Statement) con.createStatement();
        String query = "Delete from SD WHERE ROLLNO="+t3.getText()+";";

        stmt.executeUpdate(query);
        JOptionPane.showMessageDialog(null, "Record successfully deleted.");
    }

    catch(HeadlessException | ClassNotFoundException | SQLException e){
        JOptionPane.showConfirmDialog(null, "Error in Adding");
    }
    // TODO add your handling code here:
}
```

IMPLEMENTATION AND MAINTENANCE

There is an apk file and zip file. Install apk file directly to device and run.

Zip file for netbeans. Before running the project in netbeans you have to create table name “SD” in mysql in database “test”. To store and retrieve data.

FUTURE SCOPE

Graphical Analysis , download and share option.

Saving data online through user id.

REFERENCES

https://netbeans.org/kb/docs/java/quickstart.html

https://github.com/topics/netbeans-project