**PROJECT REPORT ON**

**STUDENT RESULT MANAGEMENT SYSTEM**

**MADE BY –**

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# Introduction

The Student Result Management System is a software application designed to manage and automate the process of student result management. This system is designed using Java programming language and MySQL database and consists of two modules, Student and Admin. The student module allows students to view their results and the Admin module allows administrators to manage student data, result entries, and generate reports.

The Student module of the system allows students to view their results online. They can access their results from anywhere at any time using their unique roll numbers. Students can view their result, subject-wise marks, and total marks obtained.

The Admin module of the system is designed to manage student data, result entries, and generate reports. The admin can add student data. They can also add result entries. The system provides a user-friendly interface for managing student data and result entries. The admin can also view all the registered students and results of these registered students in a table.

The Student Result Management System is a user-friendly and scalable system that can be customized to meet the specific requirements of educational institutions. The system is designed to provide accurate and timely results to students and administrators.

# Purpose of the Project

This specification document describes the capabilities that will be provided by the software application STUDENT RESULT MANAGEMENT SYSTEM. It also states the various constraints by which the system will abide. The intended audience for this document is the development team, testing team and end users of the product

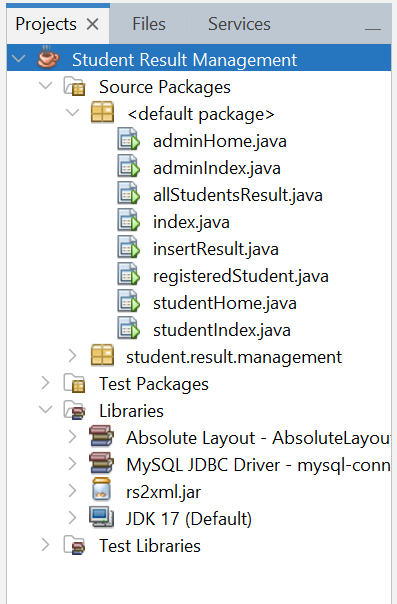
# Scope of the Project

The application will manage the information about various students enrolled in this course in different years, the subjects offered during different semesters of the course, the marks obtained by the various students in various subjects in different semesters. The application will greatly simplify and speed up the result preparation and management process.

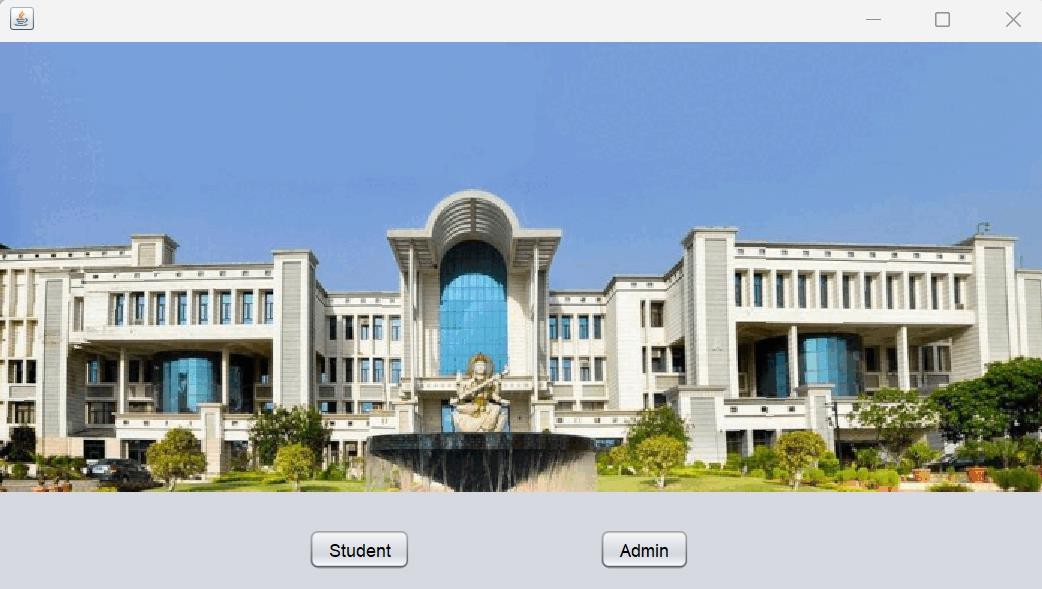
# Technology Used

* Java programming language – Swing
* Java Database Connectivity – JDBC
* MySQL 8.0
* Apache NetBeans IDE 17

All JFrame Forms



# Index.java



Code:

public class index extends javax.swing.JFrame { public index() {

initComponents();

}

private void initComponents() { jButton1 = new javax.swing.JButton(); jLabel2 = new javax.swing.JLabel(); jButton2 = new javax.swing.JButton(); jButton3 = new javax.swing.JButton();

jButton1.setText("Student");

jButton1.addActionListener(new java.awt.event.ActionListener() { public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton1ActionPerformed(evt);

}

});

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jLabel2.setIcon(new javax.swing.ImageIcon("C:\\Users\\Asus\\OneDrive\\Desktop\\ezgif.com- resize.gif")); // NOI18N

jButton2.setText("Student");

jButton2.addActionListener(new java.awt.event.ActionListener() { public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton2ActionPerformed(evt);

}

});

jButton3.setText("Admin");

jButton3.addActionListener(new java.awt.event.ActionListener() { public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton3ActionPerformed(evt);

}

});

}

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

// TODO add your handling code here: setVisible(false);

new studentIndex().setVisible(true);

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here: setVisible(false);

new studentIndex().setVisible(true);

}

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

// TODO add your handling code here: setVisible(false);

new adminIndex().setVisible(true);

}

public static void main(String args[]) {

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

public void run() {

index f1=new index(); f1.setVisible(true); f1.setLocationRelativeTo(null);

}

});

}

// Variables declaration - do not modify private javax.swing.JButton jButton1; private javax.swing.JButton jButton2; private javax.swing.JButton jButton3; private javax.swing.JLabel jLabel2;

// End of variables declaration

}

# Admin Module -

## adminIndex.java

Code:

import javax.swing.JOptionPane;

public class adminIndex extends javax.swing.JFrame { public adminIndex() {

initComponents();

}

private void initComponents() {

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

jPasswordField1 = new javax.swing.JPasswordField();

jButton1 = new javax.swing.JButton(); jButton2 = new javax.swing.JButton(); jPanel1 = new javax.swing.JPanel();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE); jLabel1.setIcon(new

javax.swing.ImageIcon("C:\\Users\\Asus\\OneDrive\\Desktop\\ezgif.com- resize1.png")); // NOI18N

jLabel2.setText("Username"); jLabel3.setText("Password");

jButton1.setText("Login");

jButton1.addActionListener(new java.awt.event.ActionListener() { public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton1ActionPerformed(evt);

}

});

jButton2.setText("Back");

jButton2.addActionListener(new java.awt.event.ActionListener() { public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton2ActionPerformed(evt);

}

});

jPanel1.setBackground(new java.awt.Color(204, 255, 255));

jPanel1.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.Bor derFactory.createLineBorder(new java.awt.Color(255, 0, 0), 6), "Welcome Admin", javax.swing.border.TitledBorder.DEFAULT\_JUSTIFICATION, javax.swing.border.TitledBorder.DEFAULT\_POSITION, new java.awt.Font("Tahoma", 3, 24), new java.awt.Color(255, 0, 0))); // NOI18N

}

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

// TODO add your handling code here:

String username=jTextField1.getText(); String password=jPasswordField1.getText();

if(username.equals("admin") && password.equals("pass"))

{

setVisible(false);

new adminHome().setVisible(true);

}

else

{

JOptionPane.showMessageDialog(null,"Username and Password is Incorrect");

}

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here: setVisible(false);

new index().setVisible(true);

}

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

public void run() {

adminIndex f4=new adminIndex(); f4.setVisible(true); f4.setLocationRelativeTo(null);

}

});

}

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

private javax.swing.JLabel jLabel1; private javax.swing.JLabel jLabel2; private javax.swing.JLabel jLabel3; private javax.swing.JPanel jPanel1;

private javax.swing.JPasswordField jPasswordField1; private javax.swing.JTextField jTextField1;

// End of variables declaration

}

## adminHome.java (to add new student details)

Code:

import java.awt.HeadlessException; import java.sql.\*;

import javax.swing.JOptionPane;

public class adminHome extends javax.swing.JFrame {

public adminHome() { initComponents();

}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here: setVisible(false);

new allStudentsResult().setVisible(true);

}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

setVisible(false);

new adminIndex().setVisible(true); JOptionPane.showMessageDialog(null,"You’ve successfully logged out of

Admin!");

}

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

// TODO add your handling code here: setVisible(false);

new adminHome().setVisible(true);

}

private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

String course=(String)jComboBox1.getSelectedItem(); String branch=(String)jComboBox2.getSelectedItem(); String rollNo=jTextField1.getText();

String name=jTextField2.getText();

String sem=(String)jComboBox3.getSelectedItem(); String fatherName=jTextField3.getText();

try

{

Class.forName("com.mysql.cj.jdbc.Driver");

Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/srm","root","wordpass ");

Statement st; st=conn.createStatement(); if(rollNo.equals(""))

{

JOptionPane.showMessageDialog(null,"Roll Number is empty");

}

else

{

st.executeUpdate("insert into student(course,branch,rollNo,name,sem,fatherName) values('"+course+"','"+branch+"','"+rollNo+"','"+name+"','"+sem+"','"+fatherName

+"')");

JOptionPane.showMessageDialog(null,"Successfully Updated");

}

setVisible(false);

new adminHome().setVisible(true); st.close();

}

catch(HeadlessException | ClassNotFoundException | SQLException e)

{

JOptionPane.showMessageDialog(null,"This roll number already exist"); setVisible(false);

new adminHome().setVisible(true);

}

}

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

// TODO add your handling code here: setVisible(false);

new registeredStudent().setVisible(true);

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

setVisible(false);

new insertResult().setVisible(true);

}

public static void main(String args[]) { java.awt.EventQueue.invokeLater(new Runnable() {

@Override

public void run() {

adminHome f5=new adminHome(); f5.setVisible(true); f5.setLocationRelativeTo(null);

}

});

}

// Variables declaration - do not modify private javax.swing.JButton jButton1; private javax.swing.JButton jButton2; private javax.swing.JButton jButton3; private javax.swing.JButton jButton4; private javax.swing.JButton jButton5; private javax.swing.JButton jButton6;

private javax.swing.JComboBox<String> jComboBox1; private javax.swing.JComboBox<String> jComboBox2; private javax.swing.JComboBox<String> jComboBox3; private javax.swing.JComboBox<String> jComboBox4; private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2; private javax.swing.JLabel jLabel3; private javax.swing.JLabel jLabel4; private javax.swing.JLabel jLabel5; private javax.swing.JLabel jLabel6; private javax.swing.JPanel jPanel1; private javax.swing.JPanel jPanel2;

private javax.swing.JTextField jTextField1; private javax.swing.JTextField jTextField2; private javax.swing.JTextField jTextField3;

// End of variables declaration

}

## insertResult.java (to insert result of a student using Roll number)

Code:

import java.awt.HeadlessException; import java.sql.\*;

import javax.swing.JOptionPane;

public class insertResult extends javax.swing.JFrame {

public insertResult() { initComponents();

}

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

// TODO add your handling code here: setVisible(false);

new adminHome().setVisible(true);

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here: setVisible(false);

new insertResult().setVisible(true);

}

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

// TODO add your handling code here: setVisible(false);

new registeredStudent().setVisible(true);

}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here: setVisible(false);

new allStudentsResult().setVisible(true);

}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

setVisible(false);

new adminIndex().setVisible(true); JOptionPane.showMessageDialog(null,"You’ve successfully logged out of

Admin!");

}

private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here: String rollNo=jTextField1.getText(); String ajava=jTextField2.getText(); String se=jTextField3.getText(); String cc=jTextField4.getText(); String vapt=jTextField5.getText();

String pc=jTextField6.getText(); try

{

Class.forName("com.mysql.cj.jdbc.Driver");

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/srm","root","wor dpass");

Statement st=con.createStatement();

ResultSet rs=st.executeQuery("select \* from student where rollNo='"+rollNo+"'");

if(rs.next())

{

st.executeUpdate("insert into result values('"+rollNo+"','"+ajava+"','"+se+"','"+cc+"','"+vapt+"','"+pc+"')");

JOptionPane.showMessageDialog(null, "Successfully Updated"); setVisible(false);

new insertResult().setVisible(true);

}

else

{

JOptionPane.showMessageDialog(null, "Roll number does not exist in our database");

setVisible(false);

new insertResult().setVisible(true);

}

}

catch(HeadlessException | ClassNotFoundException | SQLException e)

{

JOptionPane.showMessageDialog(null, "Connection error");

}

}

public static void main(String args[]) {

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

public void run() {

insertResult f6=new insertResult(); f6.setVisible(true);

f6.setLocationRelativeTo(null);

}

});

}

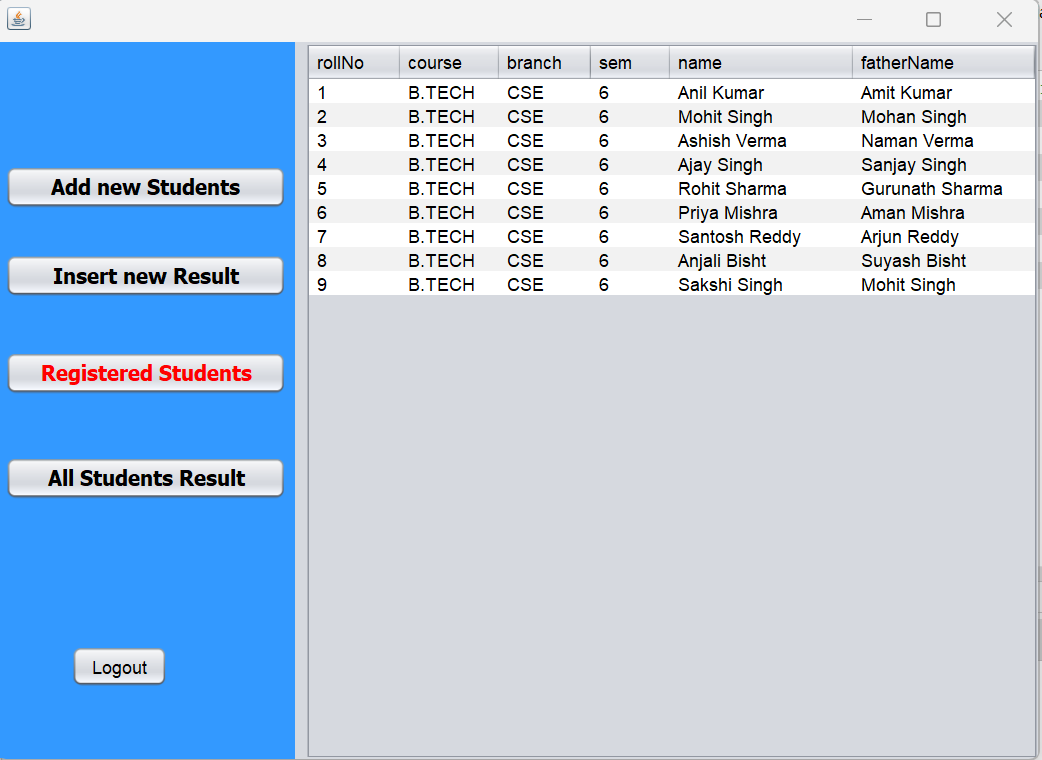
// Variables declaration - do not modify private javax.swing.JButton jButton1; private javax.swing.JButton jButton2; private javax.swing.JButton jButton3; private javax.swing.JButton jButton4; private javax.swing.JButton jButton5; private javax.swing.JButton jButton6; private javax.swing.JLabel jLabel1; private javax.swing.JLabel jLabel2; private javax.swing.JLabel jLabel3; private javax.swing.JLabel jLabel4; private javax.swing.JLabel jLabel5; private javax.swing.JLabel jLabel6; private javax.swing.JPanel jPanel1; private javax.swing.JPanel jPanel2;

private javax.swing.JTextField jTextField1; private javax.swing.JTextField jTextField2; private javax.swing.JTextField jTextField3; private javax.swing.JTextField jTextField4; private javax.swing.JTextField jTextField5; private javax.swing.JTextField jTextField6;

// End of variables declaration

}

## registeredStudent.java (to check the list of added students)



Code:

import java.sql.\*;

import javax.swing.JOptionPane; import net.proteanit.sql.DbUtils;

public class registeredStudent extends javax.swing.JFrame { public registeredStudent() {

initComponents();

}

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

// TODO add your handling code here: setVisible(false);

new adminHome().setVisible(true);

}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here: setVisible(false);

new allStudentsResult().setVisible(true);

}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

setVisible(false);

new adminIndex().setVisible(true); JOptionPane.showMessageDialog(null,"You’ve successfully logged out of

Admin!");

}

private void formComponentShown(java.awt.event.ComponentEvent evt) {

// TODO add your handling code here: try

{

Class.forName("com.mysql.cj.jdbc.Driver");

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/srm","root","wor dpass");

Statement st=con.createStatement();

ResultSet rs=st.executeQuery("select \* from student"); jTable1.setModel(DbUtils.resultSetToTableModel(rs));

}

catch(Exception e)

{

JOptionPane.showMessageDialog(null,"Connection error");

}

jTable1.setEnabled(false);

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

setVisible(false);

new insertResult().setVisible(true);

}

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

// TODO add your handling code here: setVisible(false);

new registeredStudent().setVisible(true);

}

public static void main(String args[]) { java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

registeredStudent f7=new registeredStudent(); f7.setVisible(true); f7.setLocationRelativeTo(null);

}

});

}

// Variables declaration - do not modify private javax.swing.JButton jButton1; private javax.swing.JButton jButton2; private javax.swing.JButton jButton3; private javax.swing.JButton jButton4; private javax.swing.JButton jButton5; private javax.swing.JPanel jPanel2;

private javax.swing.JScrollPane jScrollPane1; private javax.swing.JTable jTable1;

// End of variables declaration

}

## allStudentsResult.java(the list of added students results with roll number)

Code:

import java.sql.\*;

import javax.swing.JOptionPane; import net.proteanit.sql.DbUtils;

public class allStudentsResult extends javax.swing.JFrame { public allStudentsResult() {

initComponents();

}

private void formComponentShown(java.awt.event.ComponentEvent evt) {

// TODO add your handling code here: try

{

Class.forName("com.mysql.cj.jdbc.Driver");

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/srm","root","wor dpass");

Statement st=con.createStatement();

ResultSet rs=st.executeQuery("select \* from result"); jTable1.setModel(DbUtils.resultSetToTableModel(rs));

}

catch(Exception e)

{

JOptionPane.showMessageDialog(null,"Connection error");

}

jTable1.setEnabled(false);

}

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

// TODO add your handling code here: setVisible(false);

new adminHome().setVisible(true);

}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here: setVisible(false);

new allStudentsResult().setVisible(true);

}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

setVisible(false);

new adminIndex().setVisible(true); JOptionPane.showMessageDialog(null,"You’ve successfully logged out of

Admin!");

}

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

// TODO add your handling code here: setVisible(false);

new registeredStudent().setVisible(true);

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here: setVisible(false);

new insertResult().setVisible(true);

}

public static void main(String args[]) { java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new allStudentsResult().setVisible(true);

}

});

}

// Variables declaration - do not modify private javax.swing.JButton jButton1; private javax.swing.JButton jButton2; private javax.swing.JButton jButton3; private javax.swing.JButton jButton4; private javax.swing.JButton jButton5; private javax.swing.JPanel jPanel2;

private javax.swing.JScrollPane jScrollPane1; private javax.swing.JTable jTable1;

// End of variables declaration

}

# Student Module -

## studentIndex.java

Code:

import java.awt.HeadlessException; import java.sql.\*;

import javax.swing.JOptionPane;

public class studentIndex extends javax.swing.JFrame { public studentIndex() {

initComponents();

}

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

// TODO add your handling code here: String rollNo=jTextField1.getText(); try

{

Class.forName("com.mysql.cj.jdbc.Driver");

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/srm","root","wor dpass");

Statement st=con.createStatement();

ResultSet rs=st.executeQuery("select \* from student inner join result where student.rollNo='"+rollNo+"' and result.rollNo='"+rollNo+"'");

if(rs.next())

{

setVisible(false);

new studentHome(rollNo).setVisible(true);

}

else

{

JOptionPane.showMessageDialog(null, "Incorrect roll number"); setVisible(false);

new studentIndex().setVisible(true);

}

}

catch(HeadlessException | ClassNotFoundException | SQLException e)

{

JOptionPane.showMessageDialog(null, "Connection error"); setVisible(false);

new studentIndex().setVisible(true);

}

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here: setVisible(false);

new index().setVisible(true);

}

public static void main(String args[]) { java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

studentIndex f2=new studentIndex(); f2.setVisible(true);

f2.setLocationRelativeTo(null);

}

});

}

// Variables declaration - do not modify private javax.swing.JButton jButton1; private javax.swing.JButton jButton2; private javax.swing.JLabel jLabel1; private javax.swing.JLabel jLabel2; private javax.swing.JPanel jPanel1;

private javax.swing.JTextField jTextField1;

// End of variables declaration

}

## studentHome.java

Code:

import java.sql.Connection; import java.sql.DriverManager; import java.sql.ResultSet; import java.sql.Statement;

import javax.swing.JOptionPane;

public class studentHome extends javax.swing.JFrame {

public studentHome() { initComponents();

}

public studentHome(String rollNo) { initComponents(); jTextField5.setText(rollNo);

}

private void formComponentShown(java.awt.event.ComponentEvent evt) {

// TODO add your handling code here: String rollNo=jTextField5.getText(); try

{

Class.forName("com.mysql.cj.jdbc.Driver");

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/srm","root","wor dpass");

Statement st=con.createStatement();

ResultSet rs=st.executeQuery("select \* from student inner join result where student.rollNo='"+rollNo+"' and result.rollNo='"+rollNo+"'");

while(rs.next())

{

jTextField1.setText(rs.getString(2)); jTextField15.setText(rs.getString(3)); jTextField2.setText(rs.getString(4)); jTextField3.setText(rs.getString(5)); jTextField6.setText(rs.getString(6));

jTextField7.setText(rs.getString(8)); jTextField8.setText(rs.getString(9)); jTextField9.setText(rs.getString(10)); jTextField10.setText(rs.getString(11)); jTextField11.setText(rs.getString(12));

int s1=Integer.parseInt(jTextField7.getText()); int s2=Integer.parseInt(jTextField8.getText()); int s3=Integer.parseInt(jTextField9.getText()); int s4=Integer.parseInt(jTextField10.getText()); int s5=Integer.parseInt(jTextField11.getText()); int result=s1+s2+s3+s4+s5;

String s=String.valueOf(result); jTextField12.setText(s);

if(s1<40 || s2<40 || s3<40 || s4<40 || s5<40)

{

jTextField14.setText("FAIL");

}

else

{

jTextField14.setText("PASS");

}

}

}

catch(Exception e)

{

JOptionPane.showMessageDialog(null,"Connection error");

}

jTextField1.setEditable(false); jTextField2.setEditable(false); jTextField3.setEditable(false); jTextField5.setEditable(false); jTextField6.setEditable(false); jTextField7.setEditable(false); jTextField8.setEditable(false); jTextField9.setEditable(false); jTextField10.setEditable(false);

jTextField11.setEditable(false); jTextField12.setEditable(false); jTextField14.setEditable(false); jTextField15.setEditable(false);

}

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

// TODO add your handling code here: setVisible(false);

new studentIndex().setVisible(true);

}

public static void main(String args[]) { java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

studentHome f3=new studentHome(); f3.setVisible(true); f3.setLocationRelativeTo(null);

}

});

}