A

PROJECT REPORT

ON

STUDENT INFORMATION MANAGEMENT SYSTEM

Submitted in partial fulfilment of the

Requirements for the award of the Degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE &ENGINEERING

BY

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Introduction

Student Information Management System application is for Institutes, faculty and students to organize, connect and view their statistics from anywhere. It is a user friendly desktop application, by which students can view their performance in Examinations by simply entering their roll numbers.

Achieving this objective is difficult using manual record systems is difficult, as it is redundant and collecting relevant information may be very time consuming. All these problems are solved by this project.

Design Phase

The Program execution starts from main class, in which existing student data is retrieved from files which is done using deserialization and entered data is stored into files using serialization. When we execute, a JFrame is invoked for administrator login. If the administrator provides appropriate credentials then the administrator logins into the application, this leads to another frame which consists of adding faculty details.

After Adding Faculty details, the data gets stored into the array list of class Faculty from package faculty. Thereafter, a roll no check frame pops up, if the roll number entered exists in the student array list, then the admin can add GPA scores of that roll number. After addition, the main user interface i.e. Student Information Management System is displayed, in which admin can add Student details, view Student Details and can view merit list of Students.

Code Implementation

Package ui

Filename: AddFacultyDetails.java

```
package ui;

import javax.swing.JApplet;
import java.io.*;
import javax.swing.JButton;
import javax.swing.JPanel;
import javax.swing.JRadioButton;
import javax.swing.*;

import java.awt.BorderLayout;
import javax.swing.JTextField;
import javax.swing.JLabel;
import java.awt.Font;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.ItemEvent;
import java.awt.event.ItemListener;
import faculty.Faculty;

public class AddFacultyDetails extends JFrame implements ActionListener,ItemListener{
	JFrame f;
	private JTextField textField;
	private JTextField textField_1;
	private JTextField textField_2;
	private JTextField textField_3;
	private JTextField textField_4;
	JRadioButton rdbtnCse;
	JRadioButton rdbtnEce;

	JRadioButton rdbtnEee;

	JRadioButton rdbtnCivil;

	JRadioButton rdbtnMech;

	JRadioButton rdbtnIt;
	String str;

	/**
	 * Create the applet.
```

```
 */
public AddFacultyDetails() {
	f=new JFrame();
	f.getContentPane().setLayout(null);
	ButtonGroup G=new ButtonGroup();

	JPanel panel = new JPanel();
	panel.setBounds(0, 0, 614, 29);
	f.getContentPane().add(panel);

	JLabel lblFacultyDetailsEntry = new JLabel("FACULTY DETAILS ENTRY FORM");
	lblFacultyDetailsEntry.setFont(new Font("Tahoma", Font.BOLD, 15));
	panel.add(lblFacultyDetailsEntry);

	JLabel lblName = new JLabel("Name");
	lblName.setBounds(29, 71, 46, 14);
	f.getContentPane().add(lblName);

	JLabel lblAge = new JLabel("Age");
	lblAge.setBounds(336, 71, 46, 14);
	f.getContentPane().add(lblAge);

	JLabel lblQualification = new JLabel("Qualification");
	lblQualification.setBounds(29, 112, 66, 14);
	f.getContentPane().add(lblQualification);

	JLabel lblPhoneNo = new JLabel("Phone No");
	lblPhoneNo.setBounds(336, 112, 77, 14);
	f.getContentPane().add(lblPhoneNo);

	JLabel lblGender = new JLabel("Gender");
	lblGender.setBounds(29, 155, 77, 14);
	f.getContentPane().add(lblGender);

	JLabel lblBranch = new JLabel("Branch");
	lblBranch.setBounds(336, 155, 77, 14);
	f.getContentPane().add(lblBranch);

	textField = new JTextField();
	textField.setBounds(124, 68, 86, 20);
	f.getContentPane().add(textField);
	textField.setColumns(10);

	textField_1 = new JTextField();
	textField_1.setColumns(10);
	textField_1.setBounds(439, 68, 86, 20);
	f.getContentPane().add(textField_1);
```

```
textField_2 = new JTextField();
textField_2.setColumns(10);
textField_2.setBounds(124, 109, 86, 20);
f.getContentPane().add(textField_2);

textField_3 = new JTextField();
textField_3.setColumns(10);
textField_3.setBounds(439, 109, 86, 20);
f.getContentPane().add(textField_3);

textField_4 = new JTextField();
textField_4.setColumns(10);
textField_4.setBounds(124, 152, 86, 20);
f.getContentPane().add(textField_4);
rdbtnCse = new JRadioButton("CSE");
rdbtnCse.setBounds(429, 151, 54, 23);
G.add(rdbtnCse);
f.getContentPane().add(rdbtnCse);


rdbtnEce = new JRadioButton("ECE");
rdbtnEce.setBounds(488, 151, 63, 23);
G.add(rdbtnEce);
f.getContentPane().add(rdbtnEce);

rdbtnEee = new JRadioButton("EEE");
rdbtnEee.setBounds(548, 151, 66, 23);
G.add(rdbtnEee);
f.getContentPane().add(rdbtnEee);

rdbtnIt = new JRadioButton("IT");
rdbtnIt.setBounds(429, 187, 54, 23);
G.add(rdbtnIt);
f.getContentPane().add(rdbtnIt);

rdbtnMech = new JRadioButton("MECH");
rdbtnMech.setBounds(488, 187, 63, 23);
G.add(rdbtnMech);
f.getContentPane().add(rdbtnMech);

rdbtnCivil = new JRadioButton("CIVIL");
rdbtnCivil.setBounds(548, 187, 66, 23);
G.add(rdbtnCivil);
f.getContentPane().add(rdbtnCivil);

JButton btnSubmit = new JButton("Submit");
btnSubmit.setBounds(260, 276, 89, 23);
f.getContentPane().add(btnSubmit);
```

```
		btnSubmit.addActionListener(this);
		f.setSize(640,524);
		f.setVisible(true);


	}

	@Override
	public void itemStateChanged(ItemEvent e) {
		if(rdbtnMech.isSelected())
		{
			str="MECH";
		}

		if(rdbtnCse.isSelected())
		{
			str="CSE";
		}

		if(rdbtnEce.isSelected())
		{
			str="ECE";
		}

		if(rdbtnEee.isSelected())
		{
			str="EEE";
		}

		if(rdbtnIt.isSelected())
		{
			str="IT";
		}

		if(rdbtnCivil.isSelected())
		{
			str="CIVIL";
		}

		// TODO Auto-generated method stub

	}

	@Override
	public void actionPerformed(ActionEvent e) {
		Faculty temp=new
Faculty(textField.getText(),Integer.parseInt(textField_1.getText()),textField_2.getText(),Long.parseLong(t
extField_3.getText()),textField_4.getText(),str);
```

```
                // TODO Auto-generated method stub
                Faculty.f.add(temp);
                //new UiStudentDetails();
                new GPA();
                f.dispose();


                //new KK();
                //new Lily();
        }

}
```

File Name: GPA.java

```
package ui;

import javax.swing.JPanel;
import javax.swing.JLabel;
import javax.swing.JTextField;

import studdetails.StudentDetails;

import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

import javax.swing.JButton;
import javax.swing.JFrame;
import java.awt.BorderLayout;

public class GPA extends JFrame implements ActionListener{
	JFrame f;
	private JTextField textField;
	private JTextField textField_1;

	/**
	 * Create the panel.
	 */
	public GPA() {


		//getContentPane().add(textField, BorderLayout.NORTH);
		//.setColumns(10);
		f=new JFrame();

		f.getContentPane().setLayout(null);

		JLabel lblGpaCheck = new JLabel("ROLL NO CHECK");
		lblGpaCheck.setBounds(146, 32, 106, 14);
		f.getContentPane().add(lblGpaCheck);

		JLabel lblRollNo = new JLabel("ROLL NO");
		lblRollNo.setBounds(47, 99, 46, 14);
		f.getContentPane().add(lblRollNo);

		textField_1 = new JTextField();
		textField_1.setBounds(181, 98, 86, 20);
		f.getContentPane().add(textField_1);
		textField_1.setColumns(10);

		JButton btnCheck = new JButton("CHECK");
```

```
		btnCheck.setBounds(133, 149, 89, 23);
		f.getContentPane().add(btnCheck);
		f.setSize(640,542);
		getContentPane().setVisible(true);
		f.setVisible(true);
		btnCheck.addActionListener(this);



	}

	@Override
	public void actionPerformed(ActionEvent e) {
		for(int i=0;i<StudentDetails.Student.size();i++)

		{
			if(StudentDetails.Student.get(i).rollNo.equals(textField_1.getText()))
			{
				new  GPAForm(textField_1.getText(),i);

				//System.out.println("hesga");

				f.dispose();
			}

		}
		f.dispose();

	}
}
```

File Name: GPAForm.java

```
package ui;

import java.awt.BorderLayout;
import java.awt.EventQueue;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.ItemEvent;
import java.awt.event.ItemListener;

import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;

import studdetails.StudentDetails;
import studdetails.StudentGPA;

import javax.swing.JLabel;
import javax.swing.JTextField;
import javax.swing.JButton;

public class GPAForm extends JFrame implements ActionListener {
	JFrame f;
	private JTextField textField;
	private JTextField textField_1;
	JButton btnSubmit;
	String rollno;
	int index;
```

```
public GPAForm(String a,int i) {
        f=new JFrame();
        //getContentPane().setLayout(null);
        f.setLayout(null);
        f.setSize(640,524);
        rollno=a;
        index=i;

        JLabel lblGpaEntryDetails = new JLabel("GPA DETAILS ENTRY FORM");
        lblGpaEntryDetails.setBounds(141, 11, 131, 14);
        getContentPane().add(lblGpaEntryDetails);

        JLabel lblRollNo = new JLabel("ROLL NO");
        lblRollNo.setBounds(37, 72, 46, 14);
        f.add(lblRollNo);

        JLabel label = new JLabel("");
        label.setBounds(37, 113, 46, 14);
        f.add(label);

        textField = new JTextField();
        textField.setBounds(209, 69, 86, 20);
        textField.setText(a);
        textField.setEditable(false);

        f.add(textField);
```

```
        textField.setColumns(10);

        JLabel lblGpa = new JLabel("GPA");
        lblGpa.setBounds(37, 113, 46, 14);
        f.add(lblGpa);

        textField_1 = new JTextField();
        textField_1.setBounds(209, 107, 86, 20);
        f.add(textField_1);
        textField_1.setColumns(10);

         btnSubmit = new JButton("SUBMIT");
        btnSubmit.setBounds(170, 172, 89, 23);
        f.add(btnSubmit);
        btnSubmit.addActionListener(this);
        //f.add(getContentPane());


        f.setVisible(true);

}




@Override
public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
```

```
                StudentGPA temp=new
StudentGPA(StudentDetails.Student.get(index),Float.parseFloat(textField_1.getText()));
                StudentGPA.gpalist.add(temp);
                System.out.println(StudentGPA.gpalist.get(0).gpa);
                System.out.println(StudentGPA.gpalist.get(0).ref.name);
                new GPA();
                new UiStudentDetails();
                f.dispose();



        }









}
```

File Name: KK.java

```
package ui;

import javax.swing.JPanel;
import java.io.*;
import javax.swing.JRadioButton;
import javax.swing.JScrollPane;
import javax.swing.JTable;
import javax.swing.JLabel;
import javax.swing.JTextField;

import studdetails.StudentDetails;

import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.ItemEvent;
import java.awt.event.ItemListener;
import java.io.FileOutputStream;
import java.io.ObjectOutputStream;
import java.util.ArrayList;

import javax.swing.ButtonGroup;
import javax.swing.JButton;
import javax.swing.JFrame;

public class KK extends JPanel implements ActionListener,Serializable{
	//JFrame f;
	private JTextField textField;
	private JTextField textField_1;
	private JTextField textField_2;
	private JTextField textField_3;
	private JTextField textField_4;
	private JTextField branch;
	JButton btnAdd;
	String str;

	/**
	 * Create the panel.
	 */
	public KK() {
		//f=new JFrame();

		setLayout(null);
		setSize(600,600);
		ButtonGroup g=new ButtonGroup();

		JPanel panel = new JPanel();
```

```
panel.setBounds(0, 45, 600, 185);
add(panel);
panel.setLayout(null);

JLabel lblName = new JLabel("Name");
lblName.setBounds(10, 11, 46, 14);
panel.add(lblName);

textField = new JTextField();
textField.setBounds(77, 8, 107, 20);
panel.add(textField);
textField.setColumns(10);

JLabel lblRollNumber = new JLabel("Roll Number");
lblRollNumber.setBounds(320, 11, 73, 14);
panel.add(lblRollNumber);

textField_1 = new JTextField();
textField_1.setColumns(10);
textField_1.setBounds(431, 8, 107, 20);
panel.add(textField_1);

JLabel lblAge = new JLabel("Age");
lblAge.setBounds(10, 36, 46, 14);
panel.add(lblAge);

textField_2 = new JTextField();
textField_2.setColumns(10);
textField_2.setBounds(77, 33, 107, 20);
panel.add(textField_2);

textField_3 = new JTextField();
textField_3.setColumns(10);
textField_3.setBounds(431, 33, 107, 20);
panel.add(textField_3);

JLabel lblGender = new JLabel("Gender");
lblGender.setBounds(320, 36, 73, 14);
panel.add(lblGender);

JLabel lblPhoneNo = new JLabel("Phone No");
lblPhoneNo.setBounds(10, 65, 58, 14);
panel.add(lblPhoneNo);


textField_4 = new JTextField();
textField_4.setColumns(10);
textField_4.setBounds(77, 62, 107, 20);
```

```
		panel.add(textField_4);
				JLabel lblBranch = new JLabel("Branch");
				lblBranch.setBounds(320, 65, 46, 14);
				panel.add(lblBranch);
			branch=new JTextField();
			branch.setBounds(431,65,107,20);
			panel.add(branch);

				 btnAdd = new JButton("ADD");
				btnAdd.setBounds(264, 136, 65, 23);
				panel.add(btnAdd);

	btnAdd.addActionListener(this);



	}

	@Override
	public void actionPerformed(ActionEvent e) {
		// TODO Auto-generated method stub

	StudentDetails temp=new
StudentDetails(textField.getText(),textField_1.getText(),Integer.parseInt(textField_2.getText()),textField
_3.getText(),Long.parseLong(textField_4.getText()),branch.getText());
	System.out.println("lily");
		StudentDetails.Student.add(temp);




		try {
			FileOutputStream fos=new FileOutputStream("pig.txt");
			ObjectOutputStream oos=new ObjectOutputStream(fos);
			oos.writeObject(StudentDetails.Student);
			oos.flush();
			oos.close();

		} catch (Exception e1) {}

		try {

			FileInputStream fos1=new FileInputStream("pig.txt");
			ObjectInputStream oos1=new ObjectInputStream(fos1);
			StudentDetails.Student=(ArrayList<StudentDetails>)oos1.readObject();
		//	oos.flush();
			oos1.close();
```

```
                } catch (Exception e2) {}

                //}        //new AddFacultyDetails();
                //new GPA();
                //dispose();
                //new KK();

        }



}
```

File Name: LoginPageFaculty.java

```
package ui;

import java.awt.*;
import java.awt.EventQueue;

import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import javax.swing.JTextField;
import java.awt.FlowLayout;
import javax.swing.JLabel;
import javax.swing.JPasswordField;
import java.awt.Font;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

import javax.swing.ImageIcon;
import javax.swing.JButton;

public class LoginPageFaculty extends JFrame implements ActionListener{

	JFrame f;
	private JPasswordField passwordField;
	private JTextField textField;

	/**
	 * Create the frame.
	 */
	public LoginPageFaculty() {
		f=new JFrame("ADMINISTRATOR LOGIN");
		f.setSize(640,524);
		f.getContentPane().setLayout(null);

		f.setFont(new Font("Tempus Sans ITC", Font.PLAIN, 15));
		f.getContentPane().setLayout(null);

		ImageIcon ii = new ImageIcon("C:\\Users\\Karthik Kalitkar\\Desktop\\1.jpg");
	    //JLabel lable = new JLabel(ii);
	    //f.getContentPane().add(lable);

		JLabel lblLoginForm = new JLabel("LOGIN PAGE");
		lblLoginForm.setForeground(Color.WHITE);
		lblLoginForm.setFont(new Font("Times New Roman", Font.BOLD, 20));
		lblLoginForm.setBounds(222, 11, 152, 23);
		f.getContentPane().add(lblLoginForm);
```

```
        JLabel lblUserId = new JLabel("User ID");
        lblUserId.setForeground(Color.WHITE);
        lblUserId.setFont(new Font("Yu Gothic Medium", Font.BOLD, 12));
        lblUserId.setBounds(105, 289, 60, 14);
        f.getContentPane().add(lblUserId);

        JLabel lblPassword = new JLabel("Password");
        lblPassword.setForeground(Color.WHITE);
        lblPassword.setFont(new Font("Yu Gothic Medium", Font.BOLD, 12));
        lblPassword.setBounds(105, 347, 78, 14);
        f.getContentPane().add(lblPassword);

        passwordField = new JPasswordField();
        passwordField.setBounds(453, 344, 104, 20);
        f.getContentPane().add(passwordField);

        textField = new JTextField();
        textField.setBounds(453, 286, 104, 20);
        f.getContentPane().add(textField);
        textField.setColumns(10);

        JButton btnLogin = new JButton("Login");
        btnLogin.setForeground(Color.BLACK);
        btnLogin.setBounds(272, 402, 89, 23);
        f.getContentPane().add(btnLogin);

        JLabel lblNewLabel = new JLabel(ii);
        lblNewLabel.setForeground(new Color(102, 204, 255));
        lblNewLabel.setBounds(0, 0, 624, 485);
        f.getContentPane().add(lblNewLabel);

        btnLogin.addActionListener(this);
        //f.add(getContentPane());
        btnLogin.addActionListener(this);
        f.setVisible(true);


}

@Override
public void actionPerformed(ActionEvent e) {

if((textField.getText()).equals("admin")&&((passwordField.getText()).contentEquals("vasavi")))
        {
                //new AddFacultyDetails();
                //new UiStudentDetails();
                f.dispose();
                new AddFacultyDetails();
```

```
                }

            }
        }
```

File Name: RankListTop.java

```
package ui;

import javax.swing.JPanel;
import javax.swing.JScrollPane;
import javax.swing.JTable;

import studdetails.StudentDetails;
import studdetails.StudentGPA;

public class RankListTop extends JPanel {
	JPanel f;


	/**
	 * Create the panel.
	 */
	public RankListTop() {

		f=new JPanel();
		//f.setTitle("DISPLAY STUDENT DETAILS");
		JTable j;

		String columnNames[]= {"NAME","ROLL NO","DEPARTMENT","GPA"};
		String data[][]=new String[StudentGPA.gpalist.size()][4];

		for(int i=0;i<StudentDetails.Student.size();i++)
		{
			for(int k=0;k<4;k++)
			{
				if(k==0)
					data[i][k]=StudentGPA.gpalist.get(i).ref.name;
				if(k==1)
					data[i][k]=StudentGPA.gpalist.get(i).ref.rollNo;
				if(k==2)
					data[i][k]=StudentGPA.gpalist.get(i).ref.branch;
				if(k==3)
					data[i][k]=Float.toString(StudentGPA.gpalist.get(i).gpa);

			}
		}
		j = new JTable(data, columnNames);
		j.setBounds(30, 40, 200, 300);

		JScrollPane sp = new JScrollPane(j);
		f.add(sp);
		f.setSize(500,400);
```

```
                f.setVisible(true);

            }

    }
```

File Name: UiStudentDetails.java

```
package ui;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.ItemEvent;
import java.awt.event.ItemListener;

import javax.swing.*;
import javax.swing.event.ChangeEvent;
import javax.swing.event.ChangeListener;

import studdetails.StudentDetails;
import studdetails.StudentGPA;

import java.awt.Font;

public class UiStudentDetails implements ActionListener {
	JFrame f;
	JTabbedPane tabbedPane;
	UiStudentDetails(){
		f=new JFrame("WELCOME TO STUDENT INFO MANAGEMENT SYSTEM");
		f.setSize(640,524);

		//f.setSize(400,400);
		f.getContentPane().setLayout(null);


		 tabbedPane = new JTabbedPane(JTabbedPane.TOP);
		tabbedPane.setBounds(10, 11, 603, 465);

		f.getContentPane().add(tabbedPane);

		KK kk = new KK();
		tabbedPane.add("Student Entry",kk);
		tabbedPane.add("List",Studlist());
		tabbedPane.add("Merit List",TopRankList());

		JLabel lblStudentDetailsEntry = new JLabel("STUDENT DETAILS ENTRY");
		lblStudentDetailsEntry.setFont(new Font("Times New Roman", Font.BOLD, 13));
		lblStudentDetailsEntry.setBounds(200, 11, 164, 14);
		kk.add(lblStudentDetailsEntry);

		JButton btnStopAddingEntries = new JButton("Stop Adding Entries");
		btnStopAddingEntries.addActionListener(new ActionListener() {
			public void actionPerformed(ActionEvent e) {
				f.dispose();
				new UiStudentDetails();
```

```
                        //new GPA();

                    }
                });
                btnStopAddingEntries.setBounds(216, 234, 184, 23);
                kk.add(btnStopAddingEntries);
                //tabbedPane.add("hello",new JPanel());
                f.setVisible(true);
        }

        public static JPanel Studlist()
        {

                JPanel f = new JPanel();
                //f.setTitle("DISPLAY STUDENT DETAILS");
                JTable j;

                String columnNames[]= {"NAME","ROLL NO","GENDER","DEPARTMENT"};
                String data[][]=new String[StudentDetails.Student.size()][4];

                for(int i=0;i<StudentDetails.Student.size();i++)
                {
                        for(int k=0;k<4;k++)
                        {
                                if(k==0)
                                        data[i][k]=StudentDetails.Student.get(i).name;
                                if(k==1)
                                        data[i][k]=StudentDetails.Student.get(i).rollNo;
                                if(k==2)
                                        data[i][k]=StudentDetails.Student.get(i).gender;
                                if(k==3)
                                        data[i][k]=StudentDetails.Student.get(i).branch;

                        }
                }
                j = new JTable(data, columnNames);
                j.setBounds(30, 40, 200, 300);

                JScrollPane sp = new JScrollPane(j);
                f.add(sp);
                f.setSize(200, 200);
                f.setVisible(true);
                return f;
        }

public static JPanel TopRankList() {

                JPanel f=new JPanel();
```

```
            //f.setTitle("DISPLAY STUDENT DETAILS");
            JTable j;

            String columnNames[]= {"NAME","ROLL NO","DEPARTMENT","GPA"};
            String data[][]=new String[StudentGPA.gpalist.size()][4];

            for(int i=0;i<StudentGPA.gpalist.size();i++)
            {
                  for(int k=0;k<4;k++)
                  {
                        if(k==0)
                              data[i][k]=StudentGPA.gpalist.get(i).ref.name;
                        if(k==1)
                              data[i][k]=StudentGPA.gpalist.get(i).ref.rollNo;
                        if(k==2)
                              data[i][k]=StudentGPA.gpalist.get(i).ref.branch;
                        if(k==3)
                              data[i][k]=Float.toString(StudentGPA.gpalist.get(i).gpa);

                  }
            }
            j = new JTable(data, columnNames);
            j.setBounds(30, 40, 200, 300);

            JScrollPane sp = new JScrollPane(j);
            f.add(sp);
            f.setSize(500,400);
            f.setVisible(true);

            return f;
      }

      @Override
      public void actionPerformed(ActionEvent e) {



      }


}
```

Package: studdetails

File Name: StudentDetails.java

```
package studdetails;
import java.io.Serializable;
import java.util.*;
import ui.*;

public class StudentDetails implements Serializable {

		public String name;
		public String rollNo;
		public int age;
		public String gender;
		public long phone;
		public String branch;
		public static ArrayList<StudentDetails> Student=new ArrayList<StudentDetails>();


		public StudentDetails(String name,String rollNo,int age,String gender,long phone,String
branch)
		{
			this.name=name;
			this.rollNo=rollNo;
			this.gender=gender;
			this.age=age;
			this.phone=phone;
			this.branch=branch;

		}
		public static String method(StudentDetails ref)
		{
			return(ref.name+","+ref.rollNo+","+ref.gender+","+ref.branch);
		}

}
```

File Name: StudentGPA.java

```
package studdetails;

import java.util.ArrayList;

public class StudentGPA {
	public StudentDetails ref;
	public float gpa;

	public static ArrayList<StudentGPA> gpalist=new ArrayList<StudentGPA>();

	public StudentGPA(StudentDetails ref,float gpa)
	{
		this.ref=ref;
		this.gpa=gpa;
	}

}
```

Package: mainclass

File Name: StudentInformation.java

```
package mainclass;
import java.io.FileInputStream;
import java.io.ObjectInputStream;
import java.util.ArrayList;

import javax.swing.JFrame;

import studdetails.StudentDetails;
import ui.*;

public class StudentInformationManagement  {
	public static void main(String args[])
	{
		try {
			//ArrayList<StudentDetails> temp1=new ArrayList<StudentDetails>();
			FileInputStream fos1=new FileInputStream("pig.txt");
			ObjectInputStream oos1=new ObjectInputStream(fos1);
			StudentDetails.Student=(ArrayList<StudentDetails>)oos1.readObject();
			//StudentDetails.Student.add(temp1);
			//temp1


		//	oos.flush();
			oos1.close();

		} catch (Exception e1) {}
		new LoginPageFaculty();

	}

}
```

Package: faculty

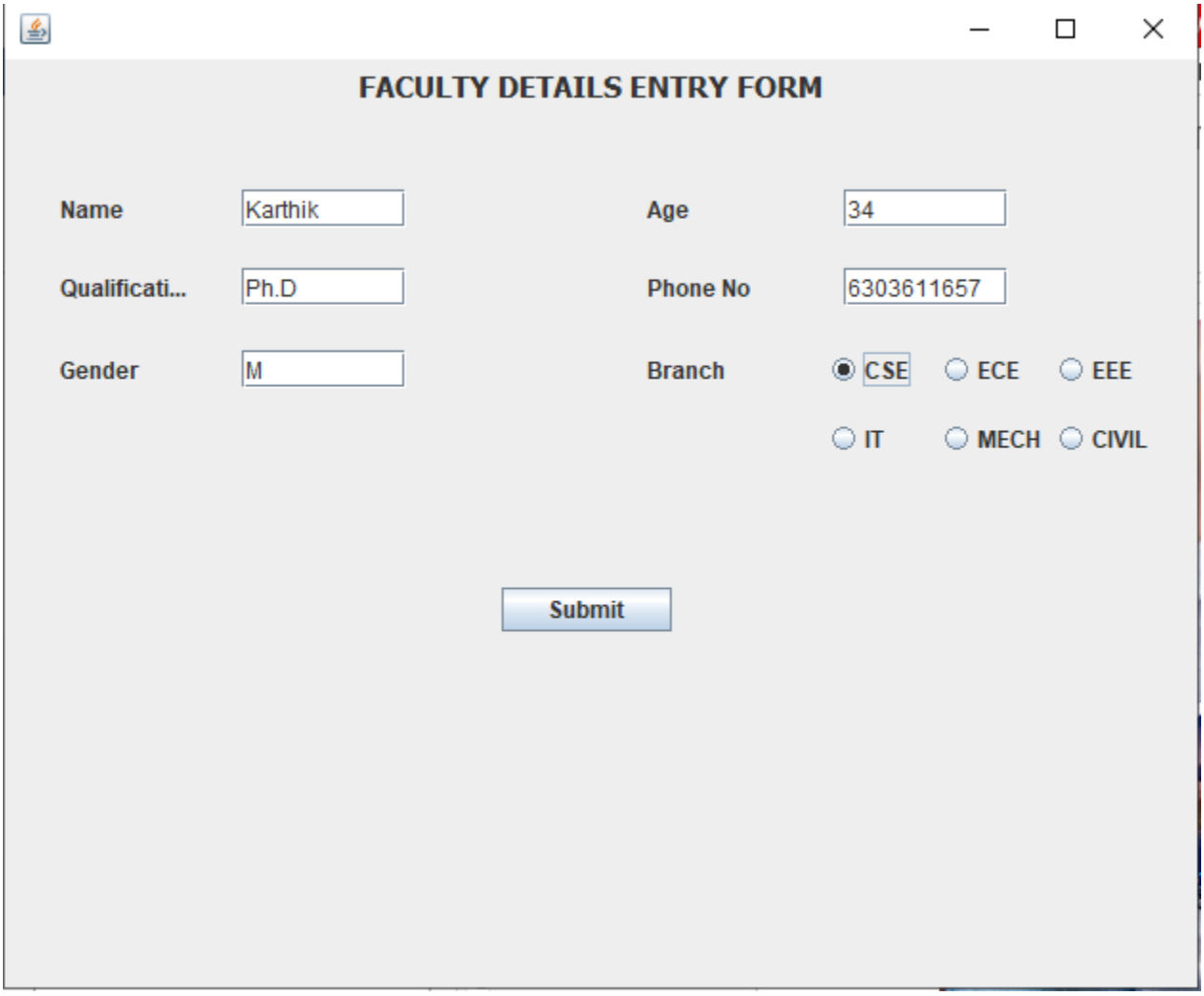
File Name: Faculty.java

```
package faculty;

import java.util.ArrayList;

public class Faculty {
	public String name;
	public String qualification;
	public int age;
	public String gender;
	public String branch;
	public long phno;
	public static ArrayList<Faculty> f=new ArrayList<Faculty>();

	public Faculty(String name,int age,String qualification,long phno,String gender,String branch)
	{
		this.name=name;
		this.qualification=qualification;
		this.branch=branch;
		this.phno=phno;
		this.age=age;
		this.gender=gender;
	}

}
```

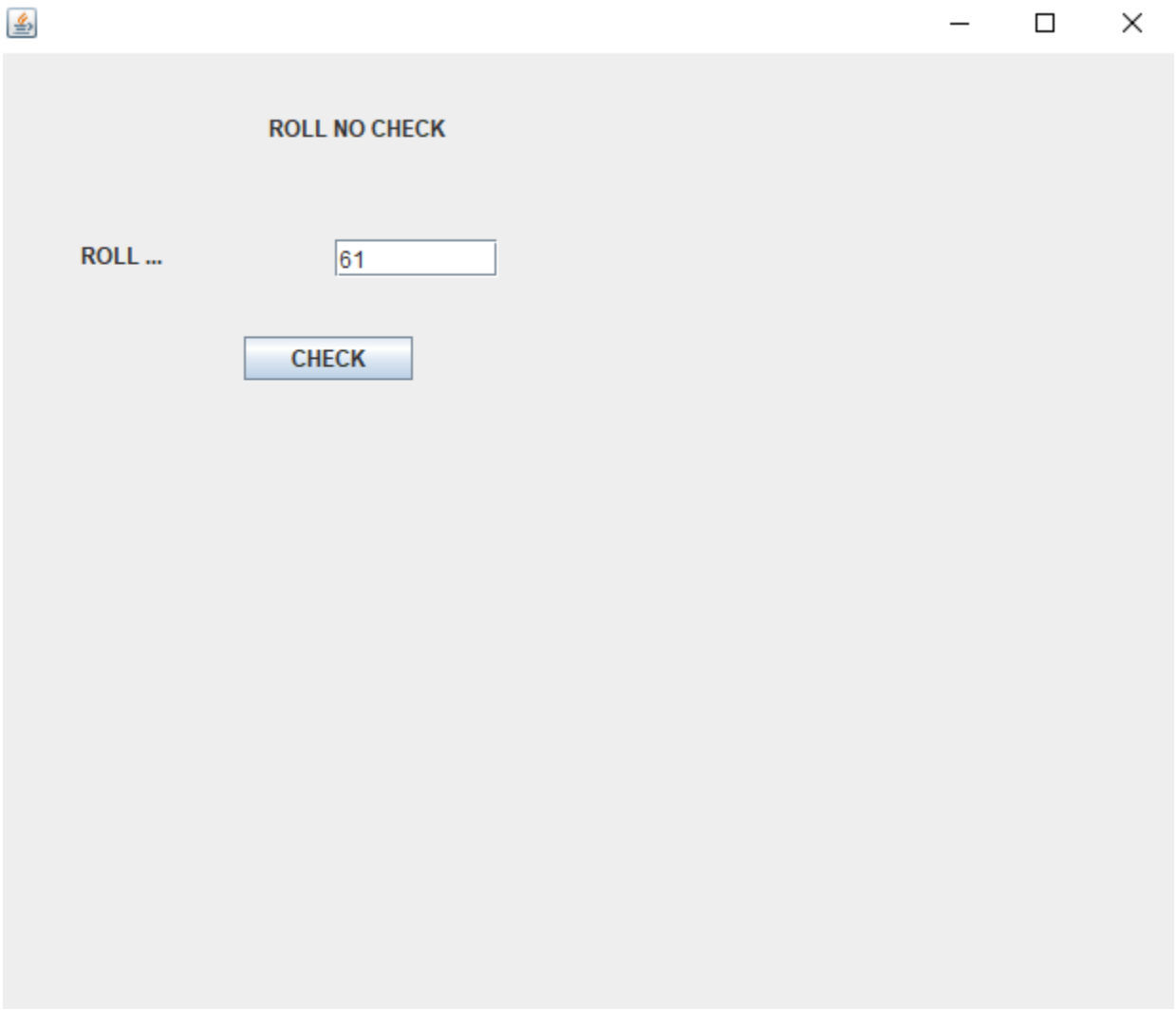
OUTPUT:

1. Administrator Login Page

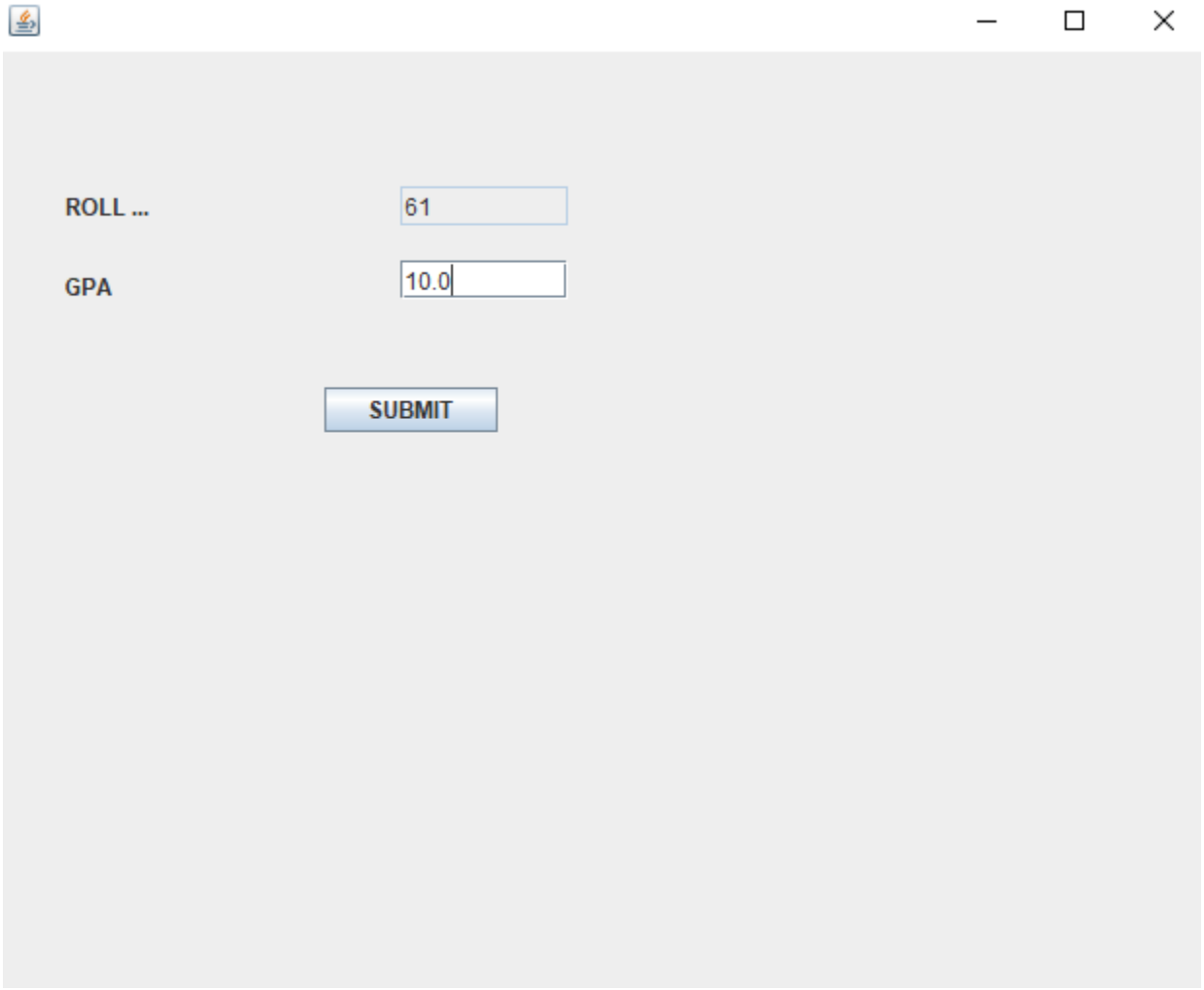
2. Faculty Details Entry Form



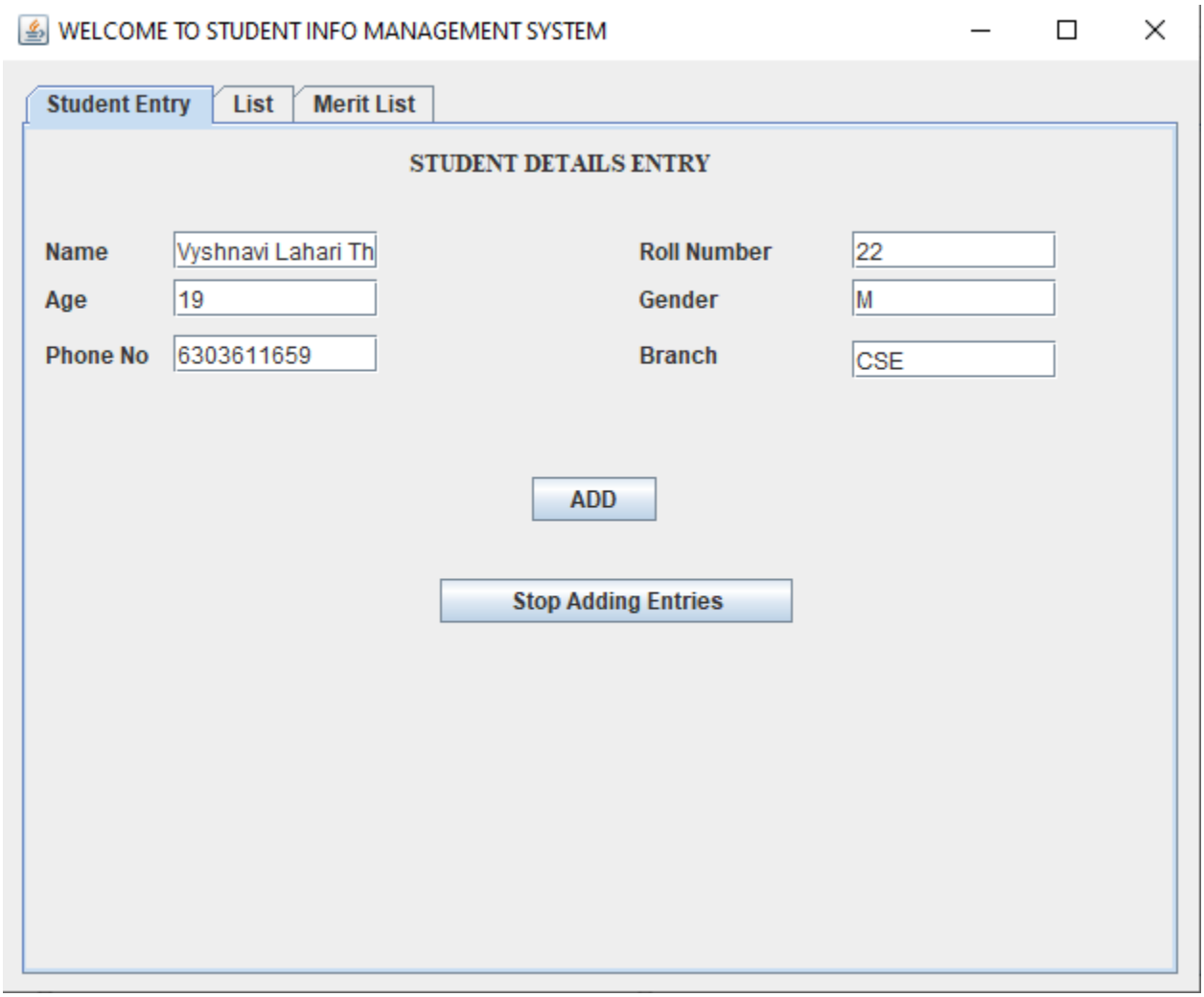
3. ROLL NUMBER CHECK



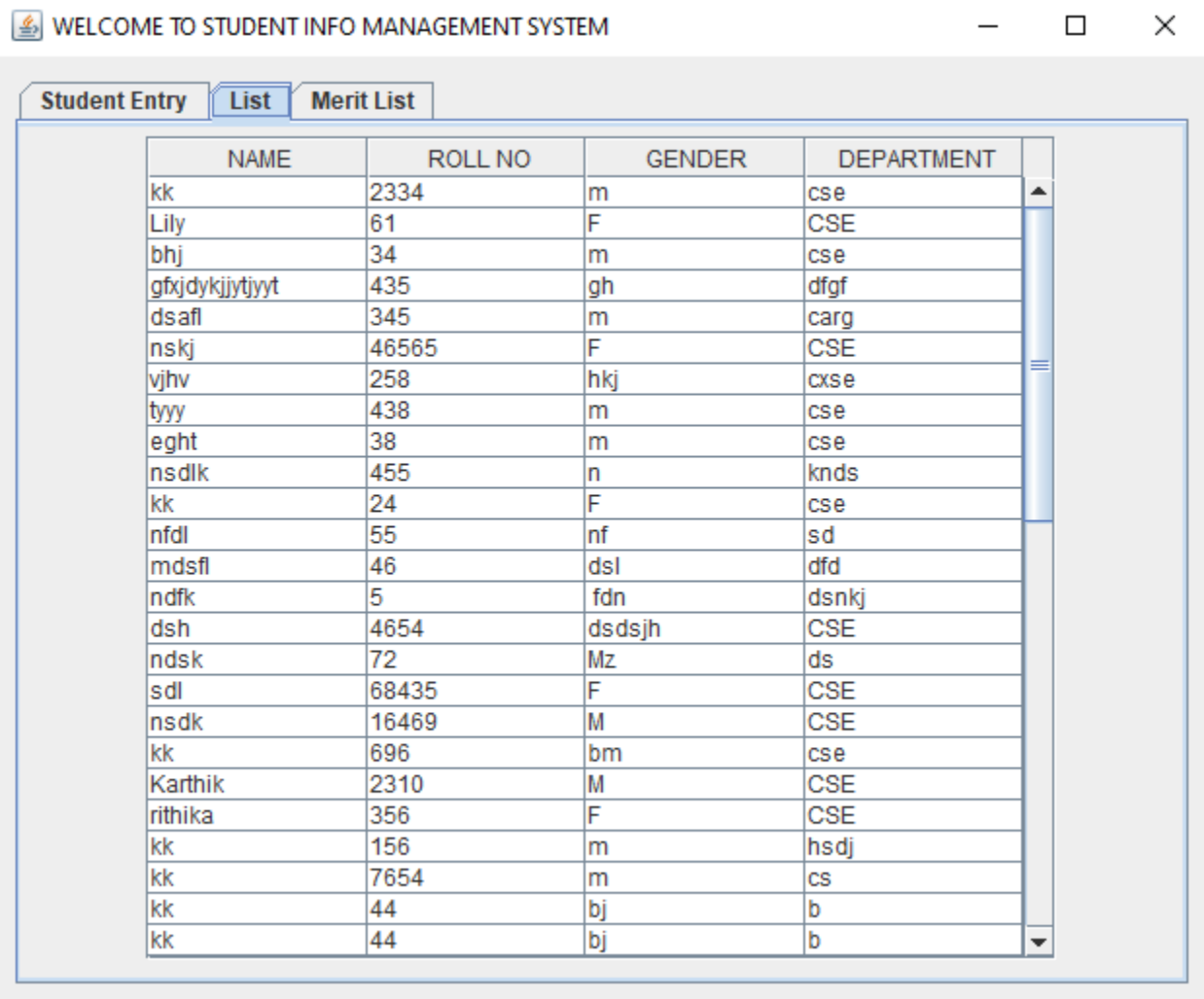
4. GPA ENTRY FORM



5. WELCOME TO STUDENT INFORMATION MANAGEMENT SYSTEM

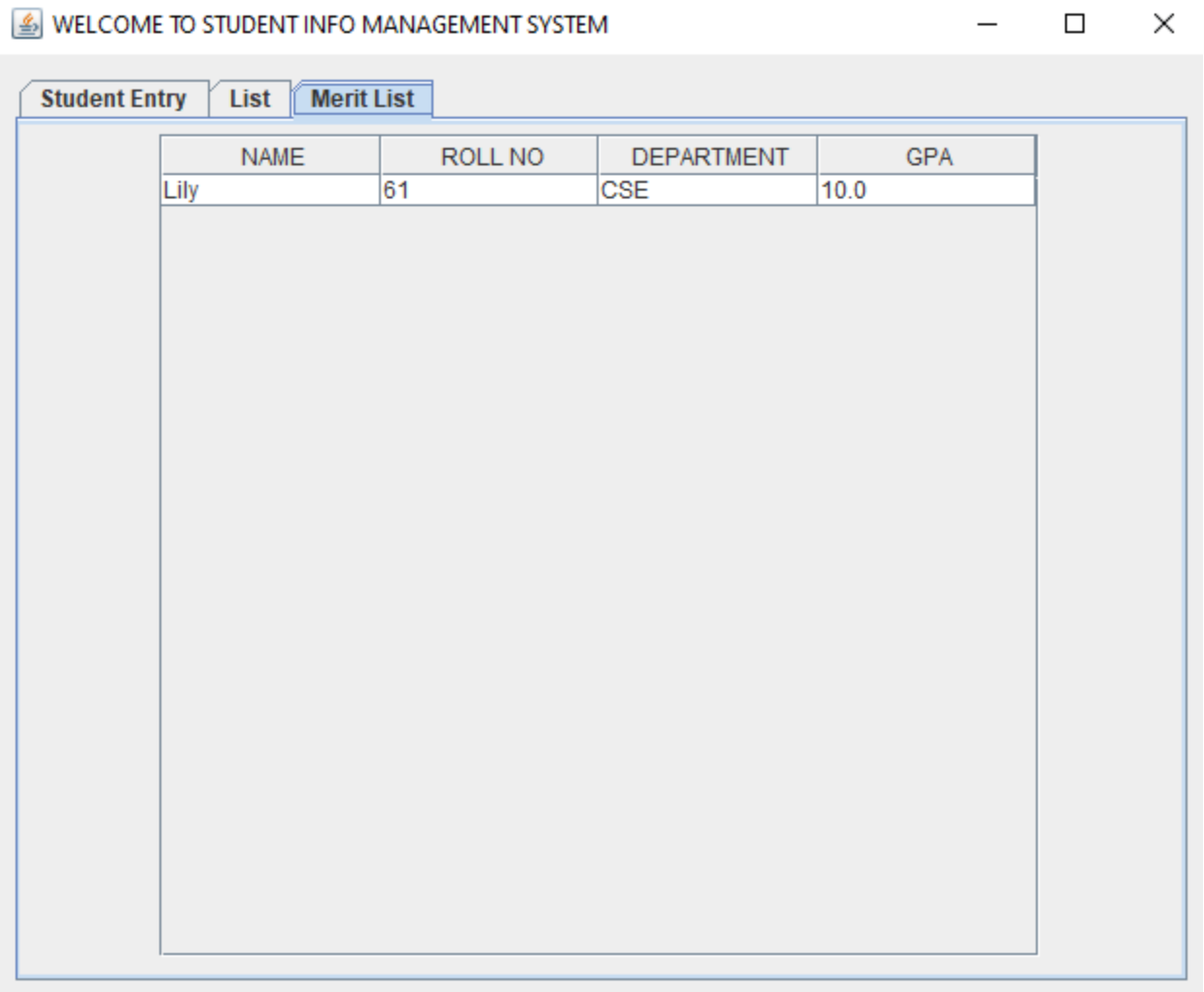


6. View Student List



NAME	ROLL NO	GENDER	DEPARTMENT
kk	2334	m	cse
Lily	61	F	CSE
bhj	34	m	cse
gfxjdykjjytjyyt	435	gh	dfgf
dsafl	345	m	carg
nskj	46565	F	CSE
vjhv	258	hkj	cxse
tyyy	438	m	cse
eght	38	m	cse
nsdlk	455	n	knds
kk	24	F	cse
nfdl	55	nf	sd
mdsfl	46	dsl	dfd
ndfk	5	fdn	dsnkj
dsh	4654	dsdsjh	CSE
ndsk	72	Mz	ds
sdl	68435	F	CSE
nsdk	16469	M	CSE
kk	696	bm	cse
Karthik	2310	M	CSE
rithika	356	F	CSE
kk	156	m	hsdj
kk	7654	m	cs
kk	44	bj	b
kk	44	bj	b

7. View Merit List



Conclusion

Through this project, we would like to help Institutes to maintain their Faculty and Students Information in an organised manner which is low cost when compared to manual student management systems, which costs a lot of money.This application is developed using Java Swing.

Students can view their statistics, and foster their career by studying better in the upcoming examinations.