

OOP GROUP PROJECT
UNIVERSITY MANAGEMENT SYSTEM

Project report in partial fulfilment of the requirement for the award of the degree of

Bachelor Of Technology
In
Computer Science & Engineering Department

Submitted By

Shanmukh Magapu	CST	3D	28	12020009022271
Hussain Waris	CST	3D	24	12020009022068
Rahul Laha.	CST	3D	33	12020009022044
Trideep Roy.	CST	3D	66	12020009022259
Sreejita Bose.	CST	3D	73	12020009002092
Debashish Debnath	CST.	3D	75	12020009002052

Under the guidance of Prof.Prasenjit Das

&

Prof. Poly Sil Sen

Department Of Computer Science & Engineering



UNIVERSITY OF ENGINEERING AND MANAGEMENT, KOLKATA
University Area, Plot No. III – B/5, New Town, Acton Area – III, Kolkata - 700160

Abstract

Vision	University wants to computerize its admission process for higher education courses.
Project Specification	Basic objectives are to extend their reach to geographically scattered students, reducing time in activities, centralized data handling and paperless admission with reduced manpower. Cost cutting, operational efficiency, consist view of data and integration with other institutions are other factors. Main challenges are effectively sync internal and external operations in such a manner that job can be finished within time limit and integration with different agencies on an agreed upon common data format.
Function (Admin/ Finance etc)	<ul style="list-style-type: none">• Selling of forms (through site and manual).• Marks & details verifications of filled forms for eligibility checking.• Sending call letters to eligible candidates for entrance exam.• Online marks checking and merit list• Sending offer letters for short listed candidates.• Counseling, Admission and hostel allotment• Statistical reports on daily activities are highly desirable feature
Location	Computerization Objectives
User-Interface Requirements	Browser based
Database Requirements	Distributed
Integration Requirements	In this process University is interacting with different systems like different school boards for marks verification, or individual hostel management systems or college level student management systems. XML would be the preferred way of all kind of inputs and outputs between other existing systems and your admission system.
Preferred Technologies	<p>Solutions must be created using</p> <ul style="list-style-type: none">• Java (as programming language)• JDBC, JNDI, Servlets, JSP (for creating web applications)• Eclipse with My Eclipse Plug-in (IDE/Workbench)• Oracle/DB2 (Database)• Windows 10/2010 or Linux/Solaris (Operating System)• BEA Web Logic/JBoss/Web Sphere (Server Deployment)
Other Details	The application should be highly secured and with different levels & categories of access control.

INDEX

1, INTRODUCTION.....	1
2.UML DIAGRAMS.....	2-7
2.1 E-R DIAGRAM.....	2
2.2 CLASS DIAGRAM.....	3
2.3 USE CASE DIAGRAM.....	4-5
2.4 SEQUENCE DIAGRAM.....	6-7
3.CODE SECTION.....	8-30
4.OUTPUT SNAPSHOTS.....	31-34

Introduction

Purpose

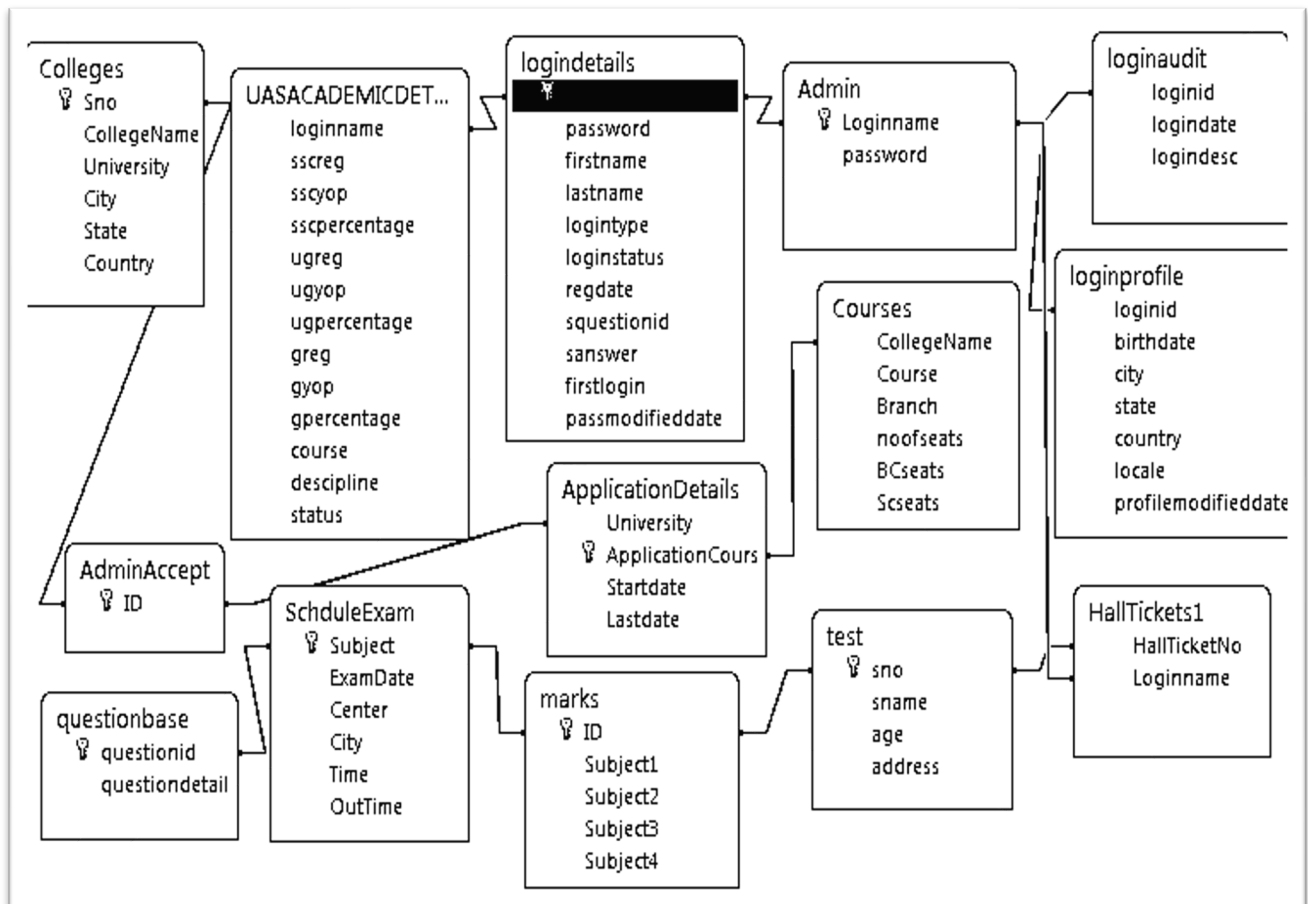
The University Admission System has been developed in order to automate the complete admission system starting from the notification to admission process. It also includes the Statistical reports on daily activities in the admission process.

The system enables online admissions saving the time of the geographically scattered students. It enables reducing time in activities, centralized data handling and paperless admission with reduced manpower. It improves the operational efficiency and reduces the cost. It also provides consist view of data and integration with other institutions for verification of marks and details.

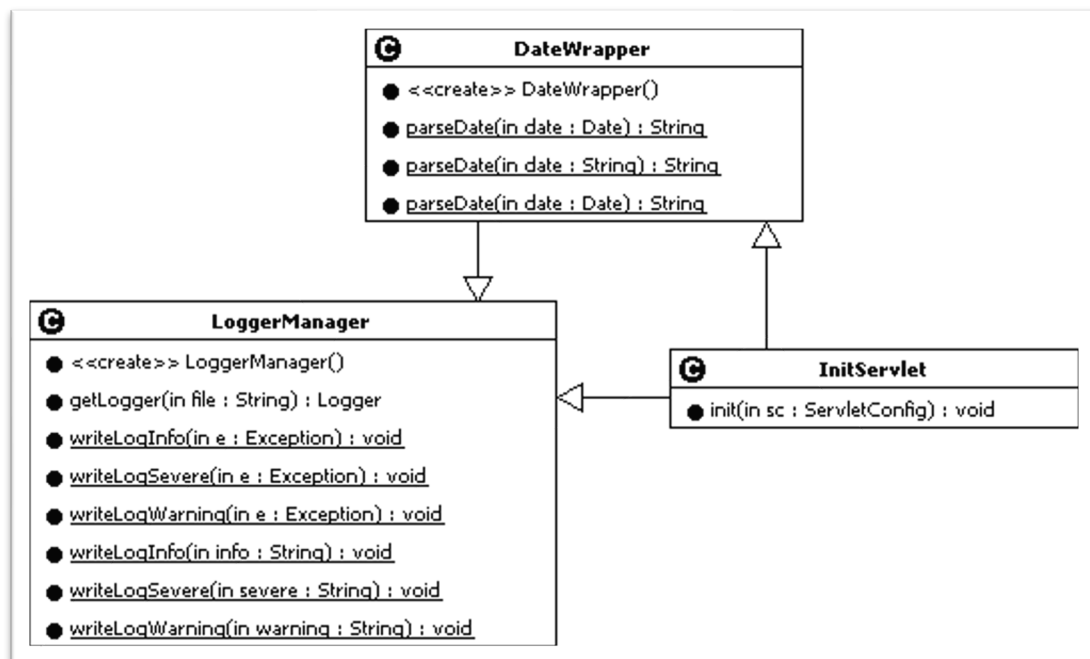
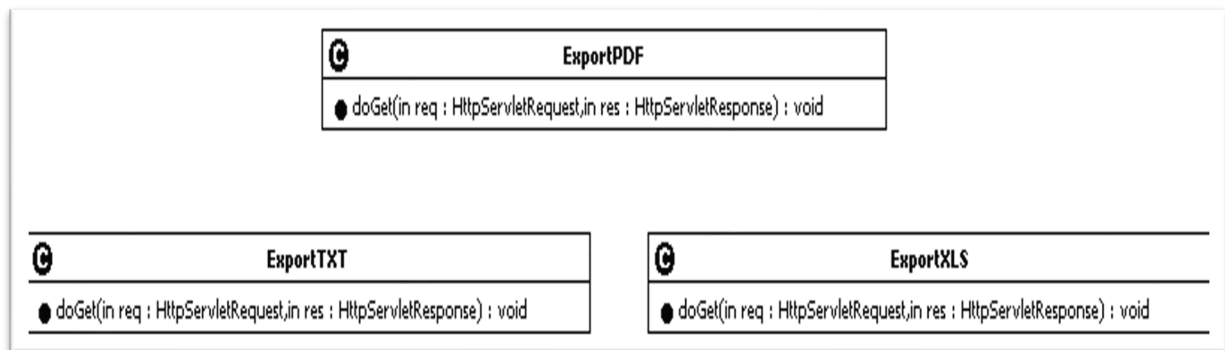
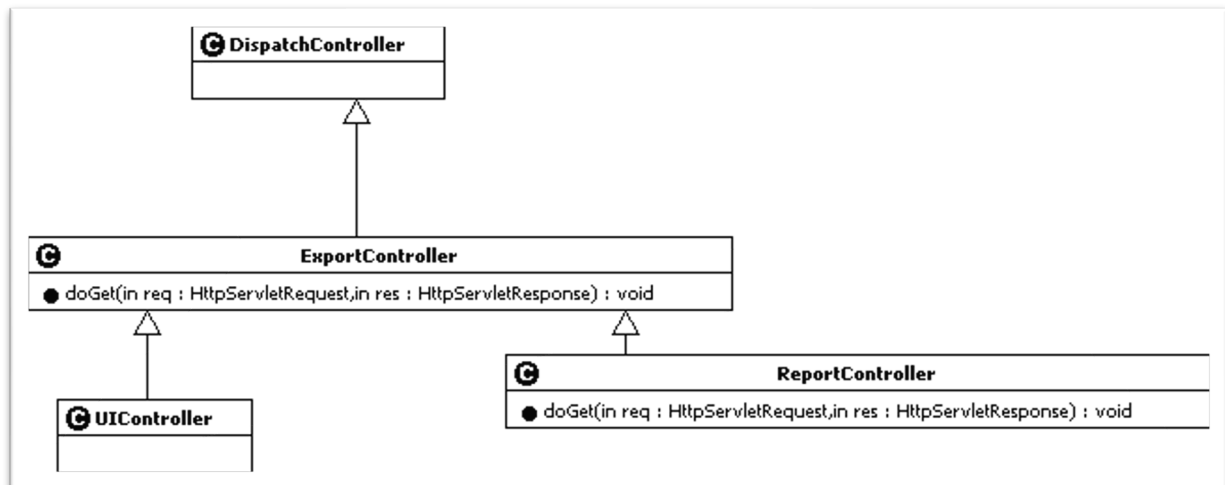
Scope

- Create different system users and assign different roles with related permissions.
- The Notification will be released through online and manually.
- Students can apply online or offline.
- Verification of marks/details done by interacting with different agencies like school boards or college management systems.
- Hall tickets will be issued for eligible candidates.
- Ranks will be generated depending upon the marks obtained for qualified candidates and call letters will be send to short listed candidates.
- Admissions will be done online, saving the time of students.
- Centralized data maintained.
- The seats management will be done by the convener online and availability of seats announced.
- Statistical reports on daily activities in the admission process will be generated.
- The system provides security through password authentication. The Administrative staff and system administrators have their own login ids and these ids help in maintain the integrity of the system.

UML DIAGRAMS

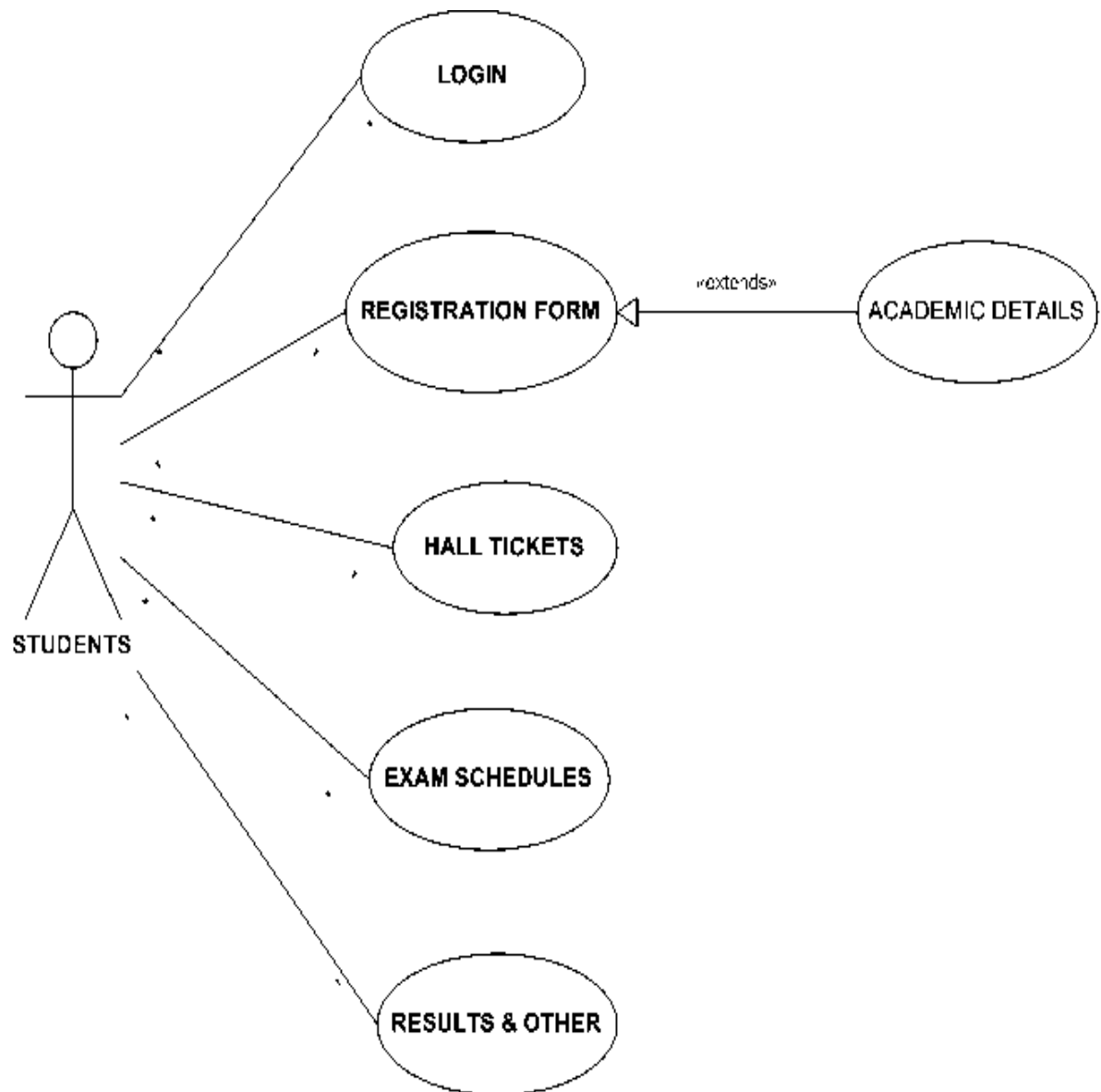


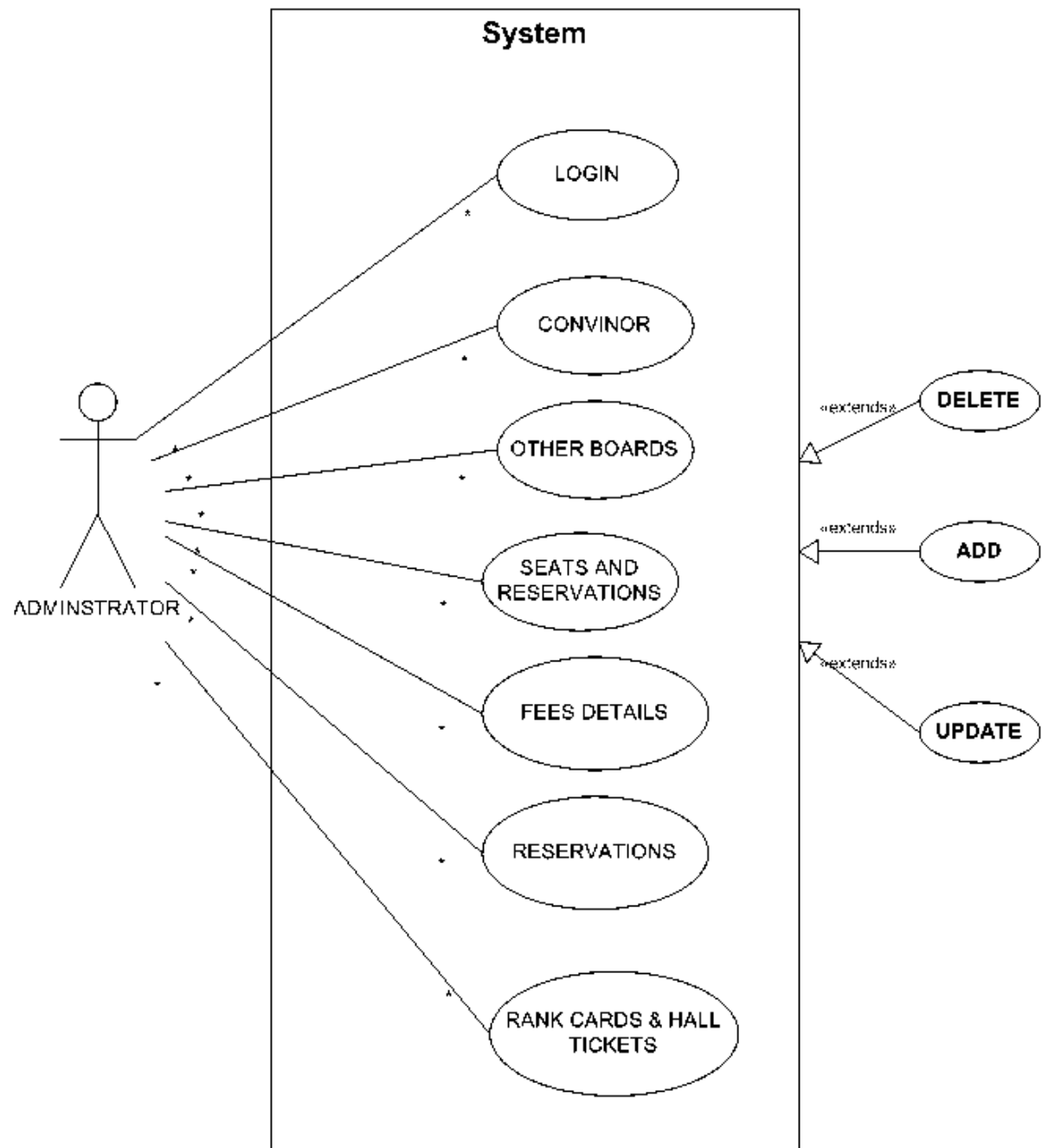
E-R DIAGRAM



CLASS DIAGRAM

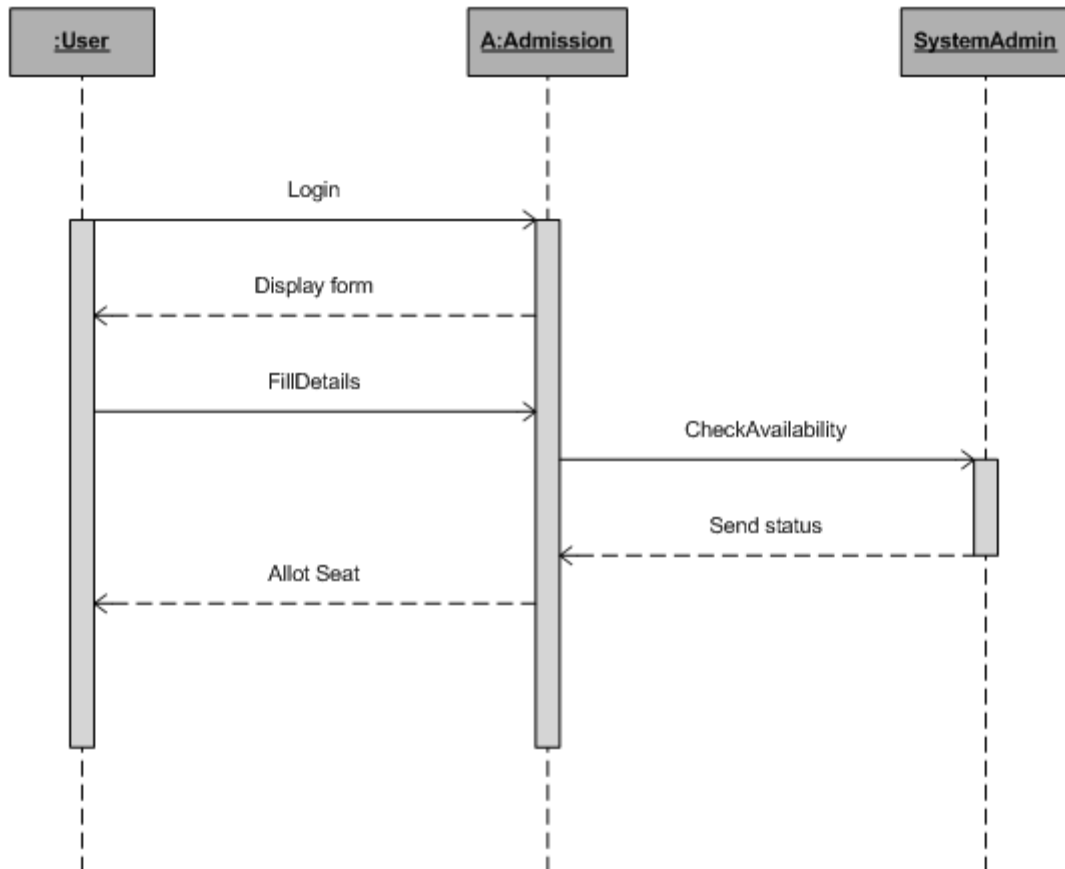
USE-CASE DIAGRAM



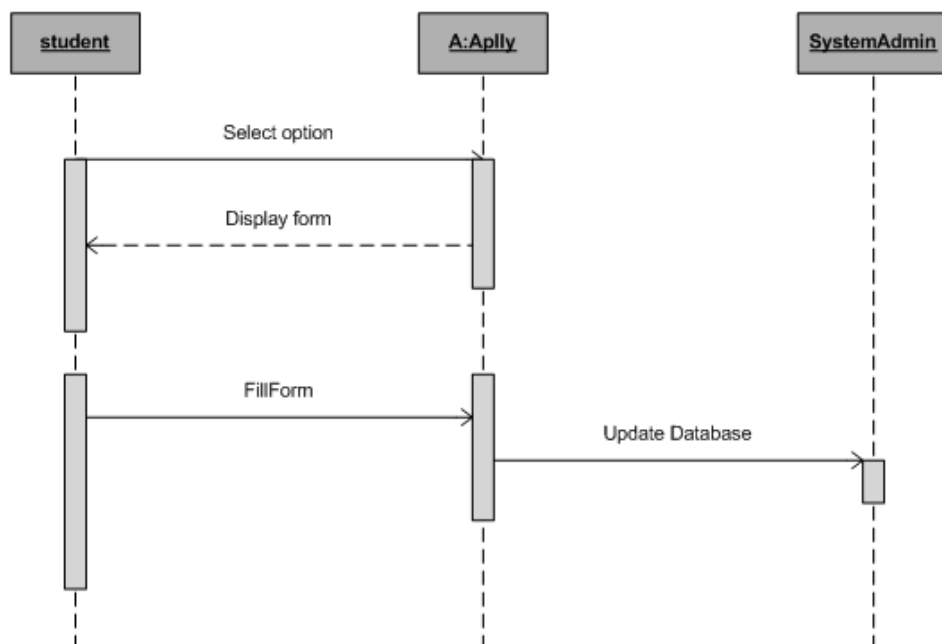


SEQUENCE DIAGRAMS

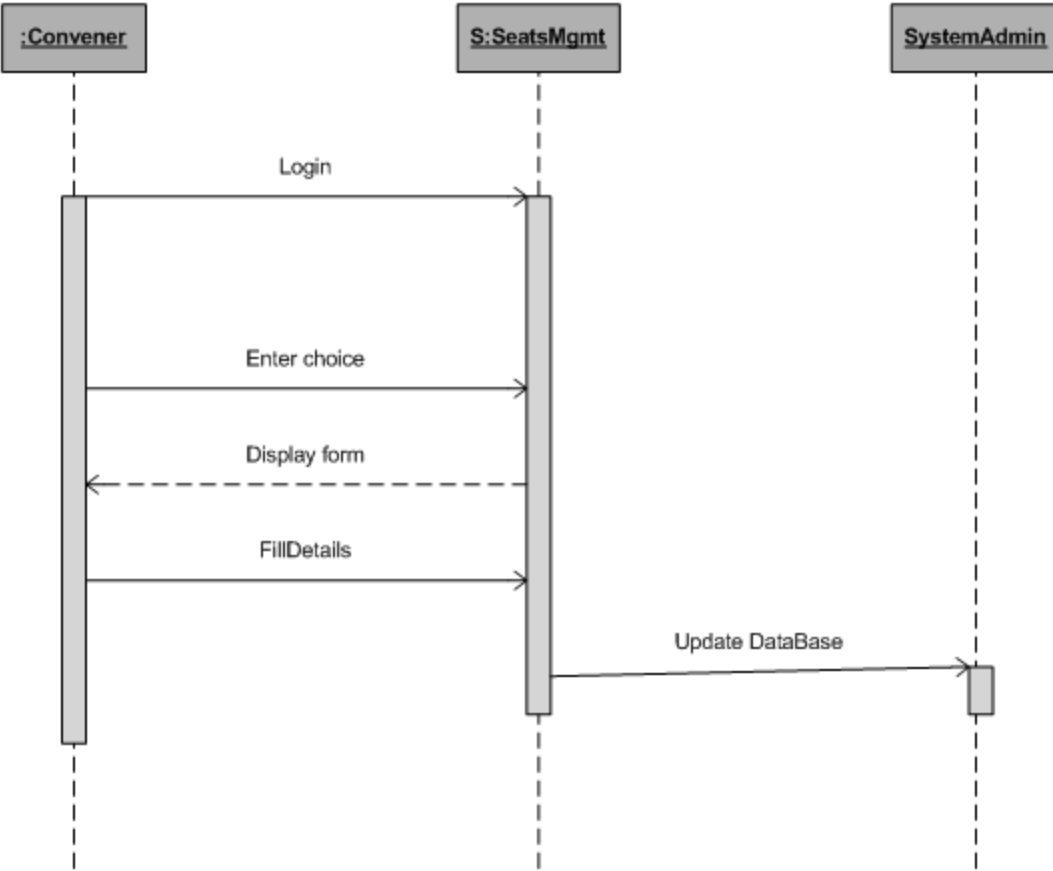
ADMISSION SEQUENCE:



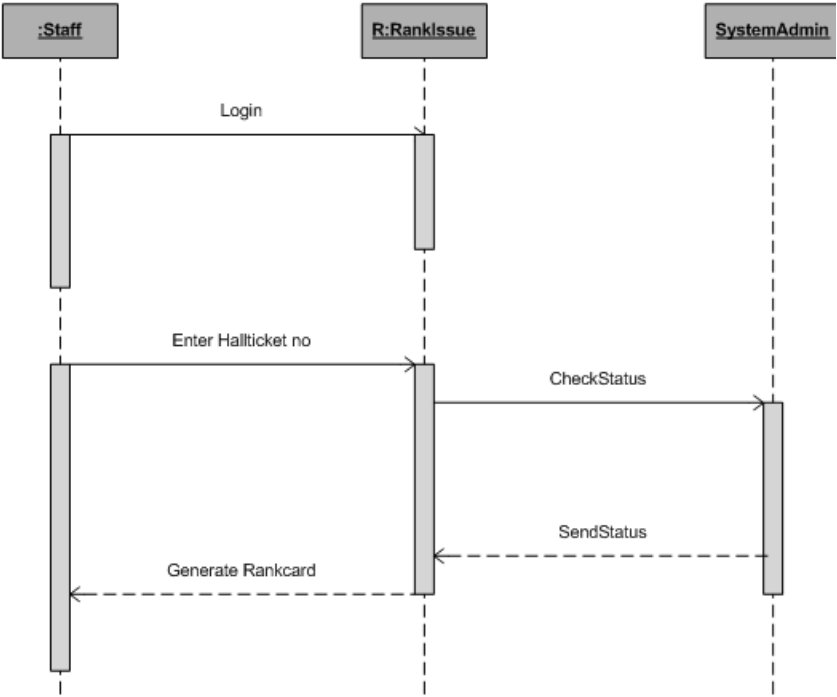
LOGIN SEQUENCE:



SEAT-AVAILAIBLE
SEQUENCE:



RANKS SEQUENCE:



CODE SECTION

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package university.management.system;

import java.awt.*;
import java.sql.*;
import javax.swing.*;
import java.awt.event.*;

class UpdateTeacher implements ActionListener{

    JFrame f;
    JLabel id,id1,id2,id3,id4,id5,id6,id7,id8,id9,id10,id11,id12,id15,lab,lab1,lab2;
    JTextField t,t1,t2,t3,t4,t5,t6,t7,t8,t9,t10,t11,t12,t13,t14;
    JButton b,b1,b2;
    String id_emp;

    UpdateTeacher(){
        f=new JFrame("Update Teacher details");
        f.setSize(900,650);
        f.setLocation(450,150);
        f.setBackground(Color.white);
        f.setLayout(null);

        JLabel l1 = new JLabel("Enter employee id to update the data of teacher");
        l1.setBounds(50,100,500,30);
        l1.setFont(new Font("serif",Font.ITALIC,20));
        f.add(l1);

        t12 = new JTextField();
        t12.setBounds(500,100,200,30);
        f.add(t12);

        b2 = new JButton("Update");
        b2.setBackground(Color.BLACK);
        b2.setForeground(Color.WHITE);
        b2.setBounds(720,100,100,30);
        f.add(b2);
        b2.addActionListener(this);

        id8 = new JLabel("Update Teacher Details:");
        id8.setBounds(50,10,500,50);
        id8.setFont(new Font("serif",Font.ITALIC,40));
        id8.setForeground(Color.black);
        f.add(id8);
    }
}
```

```
id1 = new JLabel("Name");
id1.setBounds(50,170,100,30);
id1.setFont(new Font("serif",Font.BOLD,20));
f.add(id1);
```

```
t1=new JTextField();
t1.setBounds(200,170,150,30);
f.add(t1);
```

```
id2 = new JLabel("Father's Name");
id2.setBounds(400,170,200,30);
id2.setFont(new Font("serif",Font.BOLD,20));
f.add(id2);
```

```
t2=new JTextField();
t2.setBounds(600,170,150,30);
f.add(t2);
```

```
id3= new JLabel("Age");
id3.setBounds(50,220,100,30);
id3.setFont(new Font("serif",Font.BOLD,20));
f.add(id3);
```

```
t3=new JTextField();
t3.setBounds(200,220,150,30);
f.add(t3);
```

```
id4= new JLabel("DOB (dd/mm/yyyy)");
id4.setBounds(400,220,200,30);
id4.setFont(new Font("serif",Font.BOLD,20));
f.add(id4);
```

```
t4=new JTextField();
t4.setBounds(600,220,150,30);
f.add(t4);
```

```
id5= new JLabel("Address");
id5.setBounds(50,270,100,30);
id5.setFont(new Font("serif",Font.BOLD,20));
f.add(id5);
```

```
t5=new JTextField();
t5.setBounds(200,270,150,30);
f.add(t5);
```

```
id6= new JLabel("Phone");
id6.setBounds(400,270,100,30);
id6.setFont(new Font("serif",Font.BOLD,20));
f.add(id6);
```

```
t6=new JTextField();
t6.setBounds(600,270,150,30);
f.add(t6);
```

```
id7= new JLabel("Email Id");
id7.setBounds(50,320,100,30);
id7.setFont(new Font("serif",Font.BOLD,20));
f.add(id7);
```

```
t7=new JTextField();
t7.setBounds(200,320,150,30);
f.add(t7);
```

```
id9= new JLabel("Class X(%)");
id9.setBounds(400,320,130,30);
id9.setFont(new Font("serif",Font.BOLD,20));
f.add(id9);
```

```
t8=new JTextField();
t8.setBounds(600,320,150,30);
f.add(t8);
```

```
id10= new JLabel("Class XII(%)");
id10.setBounds(50,370,130,30);
id10.setFont(new Font("serif",Font.BOLD,20));
f.add(id10);
```

```
t9=new JTextField();
t9.setBounds(200,370,150,30);
f.add(t9);
```

```
id11= new JLabel("Aadhar No");
id11.setBounds(400,370,100,30);
id11.setFont(new Font("serif",Font.BOLD,20));
f.add(id11);
```

```
t10=new JTextField();
t10.setBounds(600,370,150,30);
f.add(t10);
```

```
id12= new JLabel("Employee Id");
id12.setBounds(50,420,150,30);
id12.setFont(new Font("serif",Font.BOLD,20));
f.add(id12);
```

```
t11=new JTextField();
t11.setBounds(200,420,150,30);
f.add(t11);
```

```
lab=new JLabel("Education");
lab.setBounds(400,420,150,30);
lab.setFont(new Font("serif",Font.BOLD,20));
f.add(lab);
```

```
t13=new JTextField();
t13.setBounds(600,420,150,30);
```

```

f.add(t13);

lab2=new JLabel("Department");
lab2.setBounds(50,470,150,30);
lab2.setFont(new Font("serif",Font.BOLD,20));
f.add(lab2);

t14=new JTextField();
t14.setBounds(200,470,150,30);
f.add(t14);

b = new JButton("Submit");
b.setBackground(Color.BLACK);
b.setForeground(Color.WHITE);
b.setBounds(250,520,150,40);

f.add(b);

b1=new JButton("Cancel");
b1.setBackground(Color.BLACK);
b1.setForeground(Color.WHITE);
b1.setBounds(450,520,150,40);

f.add(b1);

b.addActionListener(this);
b1.addActionListener(this);

f.setVisible(true);
}

public void actionPerformed(ActionEvent ae){
    if(ae.getSource()==b){
        try{
            conn con = new conn();
            String str = "update teacher set
name='"+t1.getText()+"',fathers_name='"+t2.getText()+"',age='"+t3.getText()+"',
dob='"+t4.getText()+"',address='"+t5.getText()+"',phone='"+t6.getText()+"',email='"+t7.getText()+"',class_x
='"+t8.getText()+"',class_xii='"+t9.getText()+"',aadhar='"+t10.getText()+"', emp_id =
 '"+t11.getText()+"',course='"+t13.getText()+"',dept='"+t14.getText()+"' where emp_id='"+t12.getText()+"'";
            con.s.executeUpdate(str);
            JOptionPane.showMessageDialog(null,"successfully updated");
            f.setVisible(false);
            new TeacherDetails().setVisible(true);
        }catch(Exception e){
            System.out.println("The error is:"+e);
        }
    }
    if(ae.getSource()==b1){
        f.setVisible(false);
        new Project().setVisible(true);
    }
    if(ae.getSource() == b2){

```

```

try{
    conn con = new conn();
    String str = "select * from teacher where emp_id = '"+t12.getText()+"'";
    ResultSet rs = con.s.executeQuery(str);

    if(rs.next()){
        f.setVisible(true);

        t1.setText(rs.getString(1));
        t2.setText(rs.getString(2));
        t3.setText(rs.getString(3));
        t4.setText(rs.getString(4));
        t5.setText(rs.getString(5));
        t6.setText(rs.getString(6));
        t7.setText(rs.getString(7));
        t8.setText(rs.getString(8));
        t9.setText(rs.getString(9));
        t10.setText(rs.getString(10));
        t11.setText(rs.getString(11));
        t13.setText(rs.getString(12));
        t14.setText(rs.getString(13));
    }

} catch(Exception ex){}

f.setVisible(true);
f.setSize(900,650);
f.setLocation(450,250);
}
}

public static void main(String[] arg){
    new UpdateTeacher().f.setVisible(true);
}
}

package university.management.system;

import java.awt.*;
import java.awt.event.*;
import java.util.Random;
import javax.swing.*;

class AddStudent implements ActionListener{

    JFrame f;
    JLabel id,id1,id2,id3,id4,id5,id6,id7,id8,id9,id10,id11,id12,id15,id16,id17,lab,lab1,lab2;
    JTextField t,t1,t2,t3,t4,t5,t6,t7,t8,t9,t10,t11,t12,t13;
    JButton b,b1,b2,b3;
    JComboBox c1,c2;

    Random ran = new Random();
    long first4 = (ran.nextLong() % 9000L) + 1000L;

```

```
long first = Math.abs(first4);

public AddStudent(){
    f = new JFrame("Add Student");
    f.setBackground(Color.white);
    f.setLayout(null);

    id15=new JLabel();
    id15.setBounds(0,0,900,700);
    id15.setLayout(null);
//    ImageIcon img = new
ImageIcon(ClassLoader.getResource("university/management/system/icons/fourth.jpg"));
//    Image i3 = img.getImage().getScaledInstance(1220, 700,Image.SCALE_DEFAULT);
//    ImageIcon icc3 = new ImageIcon(i3);
//    id15.setIcon(icc3);

    id8 = new JLabel("New Student Details");
    id8.setBounds(320,30,500,50);
    id8.setFont(new Font("serif",Font.ITALIC,25));
    id8.setForeground(Color.black);
    id15.add(id8);
    f.add(id15);

    id1 = new JLabel("Name");
    id1.setBounds(50,150,100,30);
    id1.setFont(new Font("serif",Font.BOLD,20));
    id15.add(id1);

    t1=new JTextField();
    t1.setBounds(200,150,150,30);
    id15.add(t1);

    id2 = new JLabel("Father's Name");
    id2.setBounds(400,150,200,30);
    id2.setFont(new Font("serif",Font.BOLD,20));
    id15.add(id2);

    t2=new JTextField();
    t2.setBounds(600,150,150,30);
    id15.add(t2);

    id3= new JLabel("Age");
    id3.setBounds(50,200,100,30);
    id3.setFont(new Font("serif",Font.BOLD,20));
    id15.add(id3);

    t3=new JTextField();
    t3.setBounds(200,200,150,30);
    id15.add(t3);

    id4= new JLabel("DOB (dd/mm/yyyy)");
    id4.setBounds(400,200,200,30);
```



```
id4.setFont(new Font("serif",Font.BOLD,20));
id15.add(id4);
```

```
t4=new JTextField();
t4.setBounds(600,200,150,30);
id15.add(t4);
```

```
id5= new JLabel("Address");
id5.setBounds(50,250,100,30);
id5.setFont(new Font("serif",Font.BOLD,20));
id15.add(id5);
```

```
t5=new JTextField();
t5.setBounds(200,250,150,30);
id15.add(t5);
```

```
id6= new JLabel("Phone");
id6.setBounds(400,250,100,30);
id6.setFont(new Font("serif",Font.BOLD,20));
id15.add(id6);
```

```
t6=new JTextField();
t6.setBounds(600,250,150,30);
id15.add(t6);
```

```
id7= new JLabel("Email Id");
id7.setBounds(50,300,100,30);
id7.setFont(new Font("serif",Font.BOLD,20));
id15.add(id7);
```

```
t7=new JTextField();
t7.setBounds(200,300,150,30);
id15.add(t7);
```

```
id9= new JLabel("Class X(%)");
id9.setBounds(400,300,130,30);
id9.setFont(new Font("serif",Font.BOLD,20));
id15.add(id9);
```

```
t8=new JTextField();
t8.setBounds(600,300,150,30);
id15.add(t8);
```

```
id10= new JLabel("Class XII(%)");
id10.setBounds(50,350,130,30);
id10.setFont(new Font("serif",Font.BOLD,20));
id15.add(id10);
```

```
t9=new JTextField();
t9.setBounds(200,350,150,30);
id15.add(t9);
```

```
id11= new JLabel("Aadhar No");
id11.setBounds(400,350,100,30);
```

```
id11.setFont(new Font("serif",Font.BOLD,20));
id15.add(id11);

t10=new JTextField();
t10.setBounds(600,350,150,30);
id15.add(t10);

id12= new JLabel("Roll No");
id12.setBounds(50,400,150,30);
id12.setFont(new Font("serif",Font.BOLD,20));
id15.add(id12);

t11=new JTextField();
t11.setBounds(200,400,150,30);
t11.setText("1533"+first);
id15.add(t11);

lab=new JLabel("Course");
lab.setBounds(400,400,150,30);
lab.setFont(new Font("serif",Font.BOLD,20));
id15.add(lab);

String course[] = {"B.Tech","BBA","BCA","Bsc","Msc","MBA","MCA","BA","BCom"};
c1 = new JComboBox(course);
c1.setBackground(Color.WHITE);
c1.setBounds(600,400,150,30);
id15.add(c1);

lab2=new JLabel("Branch");
lab2.setBounds(50,450,150,30);
lab2.setFont(new Font("serif",Font.BOLD,20));
id15.add(lab2);

String branch[] = {"Computer Science","Electronics","Electrical","Mechanical","Civil"};
c2 = new JComboBox(branch);
c2.setBackground(Color.WHITE);
c2.setBounds(200,450,150,30);
id15.add(c2);

b = new JButton("Submit");
b.setBackground(Color.BLACK);
b.setForeground(Color.WHITE);
b.setBounds(250,550,150,40);

id15.add(b);

b1=new JButton("Cancel");
b1.setBackground(Color.BLACK);
b1.setForeground(Color.WHITE);
b1.setBounds(450,550,150,40);

id15.add(b1);

b.addActionListener(this);
```

```

        b1.addActionListener(this);

        f.setVisible(true);
        f.setSize(900,700);
        f.setLocation(400,150);
    }

    public void actionPerformed(ActionEvent ae){

        String a = t1.getText();
        String bb = t2.getText();
        String c = t3.getText();
        String d = t4.getText();
        String e = t5.getText();
        String ff = t6.getText();
        String g = t7.getText();
        String h = t8.getText();
        String i = t9.getText();
        String j = t10.getText();
        String k = t11.getText();
        String l = (String)c1.getSelectedItem();
        String m = (String)c2.getSelectedItem();

        if(ae.getSource() == b){
            try{
                conn cc = new conn();
                String q = "insert into student
values('"+a+"','"+bb+"','"+c+"','"+d+"','"+e+"','"+ff+"','"+g+"','"+h+"','"+i+"','"+j+"','"+k+"','"+l+"','"+m+"')";
                cc.s.executeUpdate(q);
                JOptionPane.showMessageDialog(null,"Student Details Inserted Successfully");
                f.setVisible(false);
            } catch (Exception ee) {
                System.out.println("The error is:"+ee);
            }
        } else if(ae.getSource() == b1){
            f.setVisible(false);
            new Project().setVisible(true);
        }
    }

    public static void main(String[] arg){
        new AddStudent().setVisible(true);
    }
}

package university.management.system;

import java.awt.*;
import java.awt.event.*;
import java.util.Random;
import javax.swing.*;

class AddTeacher implements ActionListener{

    JFrame f;
    JLabel id,id1,id2,id3,id4,id5,id6,id7,id8,id9,id10,id11,id12,id15,id16,id17,lab,lab1,lab2;

```

```
JTextField t1,t2,t3,t4,t5,t6,t7,t8,t9,t10,t11;  
JButton b,b1,b2,b3;  
JComboBox c1,c2;
```

```
Random ran = new Random();  
long first4 = (ran.nextLong() % 9000L) + 1000L;  
long first = Math.abs(first4);
```

```
AddTeacher(){  
    f = new JFrame("Add Teacher");  
    f.setBackground(Color.white);  
    f.setLayout(null);  
  
    id15=new JLabel();  
    id15.setBounds(0,0,900,700);  
    id15.setLayout(null);  
    //    ImageIcon img = new  
    ImageIcon(ClassLoader.getResource("university/management/system/icons/fifth.jpg"));  
    //    Image i3 = img.getImage().getScaledInstance(920, 600,Image.SCALE_DEFAULT);  
    //    ImageIcon icc3 = new ImageIcon(i3);  
    //    id15.setIcon(icc3);  
  
    id8 = new JLabel("New Teacher Details");  
    id8.setBounds(320,5,500,50);  
    id8.setFont(new Font("serif",Font.ITALIC,25));  
    id8.setForeground(Color.black);  
    id15.add(id8);  
    f.add(id15);  
  
    id1 = new JLabel("Name");  
    id1.setBounds(50,150,100,30);  
    id1.setFont(new Font("serif",Font.BOLD,20));  
    id15.add(id1);  
  
    t1=new JTextField();  
    t1.setBounds(200,150,150,30);  
    id15.add(t1);  
  
    id2 = new JLabel("Father's Name");  
    id2.setBounds(400,150,200,30);  
    id2.setFont(new Font("serif",Font.BOLD,20));  
    id15.add(id2);  
  
    t2=new JTextField();  
    t2.setBounds(600,150,150,30);  
    id15.add(t2);  
  
    id3= new JLabel("Age");  
    id3.setBounds(50,200,100,30);  
    id3.setFont(new Font("serif",Font.BOLD,20));  
    id15.add(id3);
```

```
t3=new JTextField();
t3.setBounds(200,200,150,30);
id15.add(t3);

id4= new JLabel("DOB (dd/mm/yyyy)");
id4.setBounds(400,200,200,30);
id4.setFont(new Font("serif",Font.BOLD,20));
id15.add(id4);

t4=new JTextField();
t4.setBounds(600,200,150,30);
id15.add(t4);

id5= new JLabel("Address");
id5.setBounds(50,250,100,30);
id5.setFont(new Font("serif",Font.BOLD,20));
id15.add(id5);

t5=new JTextField();
t5.setBounds(200,250,150,30);
id15.add(t5);

id6= new JLabel("Phone");
id6.setBounds(400,250,100,30);
id6.setFont(new Font("serif",Font.BOLD,20));
id15.add(id6);

t6=new JTextField();
t6.setBounds(600,250,150,30);
id15.add(t6);

id7= new JLabel("Email Id");
id7.setBounds(50,300,100,30);
id7.setFont(new Font("serif",Font.BOLD,20));
id15.add(id7);

t7=new JTextField();
t7.setBounds(200,300,150,30);
id15.add(t7);

id8= new JLabel("Class X(%)");
id8.setBounds(400,300,130,30);
id8.setFont(new Font("serif",Font.BOLD,20));
id15.add(id8);

t8=new JTextField();
t8.setBounds(600,300,150,30);
id15.add(t8);

id9= new JLabel("Class XII(%)");
id9.setBounds(50,350,130,30);
id9.setFont(new Font("serif",Font.BOLD,20));
id15.add(id9);

t9=new JTextField();
```

```
t9.setBounds(200,350,150,30);
id15.add(t9);
```

```
id10= new JLabel("Aadhar No");
id10.setBounds(400,350,100,30);
id10.setFont(new Font("serif",Font.BOLD,20));
id15.add(id10);
```

```
t10=new JTextField();
t10.setBounds(600,350,150,30);
id15.add(t10);
```

```
lab=new JLabel("Education");
lab.setBounds(50,400,150,30);
lab.setFont(new Font("serif",Font.BOLD,20));
id15.add(lab);
```

```
String course[] = {"B.Tech","BBA","BCA","Bsc","Msc","MBA","MCA","BA","BCom"};
c1 = new JComboBox(course);
c1.setBackground(Color.WHITE);
c1.setBounds(200,400,150,30);
id15.add(c1);
```

```
lab2=new JLabel("Department");
lab2.setBounds(400,400,150,30);
lab2.setFont(new Font("serif",Font.BOLD,20));
id15.add(lab2);
```

```
String branch[] = {"Computer Science","Electronics","Electrical","Mechanical","Civil"};
c2 = new JComboBox(branch);
c2.setBackground(Color.WHITE);
c2.setBounds(600,400,150,30);
id15.add(c2);
```

```
id11= new JLabel("Emp id");
id11.setBounds(400,450,150,30);
id11.setFont(new Font("serif",Font.BOLD,20));
id15.add(id11);
```

```
t11=new JTextField();
t11.setText("101"+first);
t11.setBounds(600,450,150,30);
id15.add(t11);
```

```
b = new JButton("Submit");
b.setBackground(Color.BLACK);
b.setForeground(Color.WHITE);
b.setBounds(250,550,150,40);
```

```
id15.add(b);
```

```
b1=new JButton("Cancel");
b1.setBackground(Color.BLACK);
```

```

b1.setForeground(Color.WHITE);
b1.setBounds(450,550,150,40);

id15.add(b1);

b.addActionListener(this);
b1.addActionListener(this);

f.setVisible(true);
f.setSize(900,700);
f.setLocation(400,150);
f.getContentPane().setBackground(Color.WHITE);
}

public void actionPerformed(ActionEvent ae){

    String a = t1.getText();
    String bb = t2.getText();
    String c = t3.getText();
    String d = t4.getText();
    String e = t5.getText();
    String ff = t6.getText();
    String g = t7.getText();
    String h = t8.getText();
    String i = t9.getText();
    String j = t10.getText();
    String k = (String)c1.getSelectedItem();
    String l = t11.getText();
    String m = (String)c2.getSelectedItem();

    if(ae.getSource() == b){
        try{
            conn cc = new conn();
            String q = "insert into teacher
values('"+a+"','"+bb+"','"+c+"','"+d+"','"+e+"','"+ff+"','"+g+"','"+h+"','"+i+"','"+j+"','"+k+"','"+l+"','"+m+"')";
            cc.s.executeUpdate(q);
            JOptionPane.showMessageDialog(null,"Teacher Details Inserted Successfully");
            f.setVisible(false);

        }catch(Exception ee){
            System.out.println("The error is:"+ee);
        }
    }else if(ae.getSource() == b1){
        f.setVisible(false);
        new Project().setVisible(true);
    }
}

public static void main(String[] arg){
    new AddTeacher().f.setVisible(true);
}
}

package university.management.system;

import java.sql.*;

```

```

public class conn{
    Connection c;
    Statement s;
    public conn(){
        try{
            Class.forName("com.mysql.jdbc.Driver");
            c = DriverManager.getConnection("jdbc:mysql:///ums","root","");
            s = c.createStatement();

        } catch (Exception e) {
            System.out.println(e);
        }
    }
}
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package university.management.system;

import java.awt.*;
import javax.swing.*;
import javax.swing.border.*;
import java.sql.*;
import java.awt.event.*;
import net.proteanit.sql.DbUtils;

public class ExaminationDetails extends JFrame implements ActionListener{

    private JPanel contentPane;
    private JTable table;
    private JTextField search;
    private JButton b1,b2,b3;

    public void Book() {
        try {
            conn con = new conn();
            String sql = "select * from student";
            PreparedStatement st = con.c.prepareStatement(sql);
            ResultSet rs = st.executeQuery();

            table.setModel(DbUtils.resultSetToTableModel(rs));
            rs.close();
            st.close();
            con.c.close();
        } catch (Exception e) {}
    }

    public ExaminationDetails() {

```



```

setBounds(350, 200, 930, 475);
contentPane = new JPanel();
contentPane.setBackground(Color.WHITE);
contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
setContentPane(contentPane);
contentPane.setLayout(null);

JScrollPane scrollPane = new JScrollPane();
scrollPane.setBounds(79, 133, 1080, 282);
contentPane.add(scrollPane);

table = new JTable();
table.addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        int row = table.getSelectedRow();
        search.setText(table.getModel().getValueAt(row, 10).toString());
    }
});

table.setBackground(new Color(240, 248, 255));
table.setForeground(Color.DARK_GRAY);
table.setFont(new Font("Trebuchet MS", Font.BOLD, 16));
scrollPane.setViewportView(table);

b1 = new JButton("Result");
b1.addActionListener(this);
b1.setBorder(new LineBorder(new Color(255, 20, 147), 2, true));
b1.setForeground(new Color(199, 21, 133));
b1.setFont(new Font("Trebuchet MS", Font.BOLD, 18));
b1.setBounds(564, 89, 138, 33);
contentPane.add(b1);

JLabel l1 = new JLabel("Check Result");
l1.setForeground(new Color(107, 142, 35));
l1.setFont(new Font("Trebuchet MS", Font.BOLD | Font.ITALIC, 30));
l1.setBounds(300, 15, 400, 47);
contentPane.add(l1);

search = new JTextField();
search.setBackground(new Color(255, 240, 245));
search.setBorder(new LineBorder(new Color(255, 105, 180), 2, true));
search.setForeground(new Color(47, 79, 79));
search.setFont(new Font("Trebuchet MS", Font.BOLD | Font.ITALIC, 17));
search.setBounds(189, 89, 357, 33);
contentPane.add(search);
search.setColumns(10);

JLabel l3 = new JLabel("Back");
l3.addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent e) {
        setVisible(false);
    }
});

```

```

    }
    });
    l3.setForeground(Color.GRAY);
    l3.setFont(new Font("Trebuchet MS", Font.BOLD, 18));
    l3.setBounds(97, 89, 72, 33);
    contentPane.add(l3);

    JPanel panel = new JPanel();
    panel.setBorder(new TitledBorder(new LineBorder(new Color(0, 128, 128), 3, true), "Book-Details",
    TitledBorder.LEADING, TitledBorder.TOP, null, new Color(0, 128, 0)));
    panel.setBounds(67, 54, 1100, 368);
    contentPane.add(panel);
    panel.setBackground(Color.WHITE);
    Book();
    setSize(1200,500);
}

public void actionPerformed(ActionEvent ae){
    try{
        conn con = new conn();
        if(ae.getSource() == b1){
            new Marks(search.getText()).setVisible(true);
            this.setVisible(false);
        };
    }
    catch(Exception e){}
}

public static void main(String[] args){
    new ExaminationDetails().setVisible(true);
}
}
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package university.management.system;

import javax.swing.*;
import java.awt.*;

public class FeeStructure extends JFrame{

    JLabel l1,l2,l3,l4,l5,l6,l7,l8,l9,l10,l11,l12,l13,l14,l15,l16,l17;
    JLabel i1;
    JLabel b1,b2,b3,b4,b5,b6,b7,b8;
    JLabel bb1,bb2,bb3,bb4,bb5,bb6,bb7,bb8,bb9,bb10,bb11,bb12,bb13,bb14,bb15,bb16,bb17,bb18;
    JLabel m1,m2,m3,m4,m5,m6,m7,m8,m9,m10,m11,m12;

    public FeeStructure(){

        setSize(1700,800);
        setLocation(100,100);
        setLayout(null);
    }
}

```

```
i1 = new JLabel("Fee Structure");  
i1.setFont(new Font("serif",Font.ITALIC,56));  
i1.setBounds(600,10,400,70);  
add(i1);
```

```
l1 = new JLabel("Course");  
l1.setBounds(80,100,100,40);  
l1.setFont(new Font("serif",Font.BOLD,26));  
add(l1);
```

```
l2 = new JLabel("BTech");  
l2.setBounds(280,100,100,40);  
l2.setFont(new Font("serif",Font.BOLD,26));  
add(l2);
```

```
l3 = new JLabel("BCA");  
l3.setBounds(480,100,100,40);  
l3.setFont(new Font("serif",Font.BOLD,26));  
add(l3);
```

```
l4 = new JLabel("BBA");  
l4.setBounds(680,100,100,40);  
l4.setFont(new Font("serif",Font.BOLD,26));  
add(l4);
```

```
bb5 = new JLabel("Rs 25000");  
bb5.setBounds(680,170,150,40);  
bb5.setFont(new Font("serif",Font.PLAIN,26));  
add(bb5);
```

```
bb6 = new JLabel("Rs 25000");  
bb6.setBounds(680,240,150,40);  
bb6.setFont(new Font("serif",Font.PLAIN,26));  
add(bb6);
```

```
bb7 = new JLabel("Rs 25000");  
bb7.setBounds(680,310,150,40);  
bb7.setFont(new Font("serif",Font.PLAIN,26));  
add(bb7);
```

```
bb8 = new JLabel("Rs 25000");  
bb8.setBounds(680,380,150,40);  
bb8.setFont(new Font("serif",Font.PLAIN,26));  
add(bb8);
```

```
bb13 = new JLabel("Rs 25000");  
bb13.setBounds(680,450,150,40);  
bb13.setFont(new Font("serif",Font.PLAIN,26));  
add(bb13);
```

```
bb14 = new JLabel("Rs 25000");  
bb14.setBounds(680,520,150,40);  
bb14.setFont(new Font("serif",Font.PLAIN,26));  
add(bb14);
```

```
l5 = new JLabel("Bsc");
l5.setBounds(880,100,100,40);
l5.setFont(new Font("serif",Font.BOLD,26));
add(l5);
```

```
bb9 = new JLabel("Rs 18000");
bb9.setBounds(880,170,150,40);
bb9.setFont(new Font("serif",Font.PLAIN,26));
add(bb9);
```

```
bb10 = new JLabel("Rs 18000");
bb10.setBounds(880,240,150,40);
bb10.setFont(new Font("serif",Font.PLAIN,26));
add(bb10);
```

```
bb11 = new JLabel("Rs 18000");
bb11.setBounds(880,310,150,40);
bb11.setFont(new Font("serif",Font.PLAIN,26));
add(bb11);
```

```
bb12 = new JLabel("Rs 18000");
bb12.setBounds(880,380,150,40);
bb12.setFont(new Font("serif",Font.PLAIN,26));
add(bb12);
```

```
bb15 = new JLabel("Rs 18000");
bb15.setBounds(880,450,150,40);
bb15.setFont(new Font("serif",Font.PLAIN,26));
add(bb15);
```

```
bb16 = new JLabel("Rs 18000");
bb16.setBounds(880,520,150,40);
bb16.setFont(new Font("serif",Font.PLAIN,26));
add(bb16);
```

```
l6 = new JLabel("MBA");
l6.setBounds(1080,100,100,40);
l6.setFont(new Font("serif",Font.BOLD,26));
add(l6);
```

```
m1 = new JLabel("Rs 65000");
m1.setBounds(1080,170,150,40);
m1.setFont(new Font("serif",Font.PLAIN,26));
add(m1);
```

```
m2 = new JLabel("Rs 65000");
m2.setBounds(1080,240,150,40);
m2.setFont(new Font("serif",Font.PLAIN,26));
add(m2);
```

```
m3 = new JLabel("Rs 65000");
m3.setBounds(1080,310,150,40);
m3.setFont(new Font("serif",Font.PLAIN,26));
add(m3);
```

```
m4 = new JLabel("Rs 65000");
m4.setBounds(1080,380,150,40);
m4.setFont(new Font("serif",Font.PLAIN,26));
add(m4);
```

```
l7 = new JLabel("MCA");
l7.setBounds(1280,100,100,40);
l7.setFont(new Font("serif",Font.BOLD,26));
add(l7);
```

```
m5 = new JLabel("Rs 55000");
m5.setBounds(1280,170,150,40);
m5.setFont(new Font("serif",Font.PLAIN,26));
add(m5);
```

```
m6 = new JLabel("Rs 55000");
m6.setBounds(1280,240,150,40);
m6.setFont(new Font("serif",Font.PLAIN,26));
add(m6);
```

```
m7 = new JLabel("Rs 55000");
m7.setBounds(1280,310,150,40);
m7.setFont(new Font("serif",Font.PLAIN,26));
add(m7);
```

```
m8 = new JLabel("Rs 55000");
m8.setBounds(1280,380,150,40);
m8.setFont(new Font("serif",Font.PLAIN,26));
add(m8);
```

```
l8 = new JLabel("MTech");
l8.setBounds(1480,100,100,40);
l8.setFont(new Font("serif",Font.BOLD,26));
add(l8);
```

```
m9 = new JLabel("Rs 81000");
m9.setBounds(1480,170,150,40);
m9.setFont(new Font("serif",Font.PLAIN,26));
add(m9);
```

```
m10 = new JLabel("Rs 81000");
m10.setBounds(1480,240,150,40);
m10.setFont(new Font("serif",Font.PLAIN,26));
add(m10);
```

```
m11 = new JLabel("Rs 81000");
m11.setBounds(1480,310,150,40);
m11.setFont(new Font("serif",Font.PLAIN,26));
add(m11);
```

```
m12 = new JLabel("Rs 81000");
m12.setBounds(1480,380,150,40);
m12.setFont(new Font("serif",Font.PLAIN,26));
add(m12);
```

```
l10 = new JLabel("Semester 1");
l10.setBounds(80,170,150,40);
l10.setFont(new Font("serif",Font.BOLD,26));
add(l10);
```

```
l11 = new JLabel("Semester 2");
l11.setBounds(80,240,150,40);
l11.setFont(new Font("serif",Font.BOLD,26));
add(l11);
```

```
l12 = new JLabel("Semester 3");
l12.setBounds(80,310,150,40);
l12.setFont(new Font("serif",Font.BOLD,26));
add(l12);
```

```
l13 = new JLabel("Semester 4");
l13.setBounds(80,380,150,40);
l13.setFont(new Font("serif",Font.BOLD,26));
add(l13);
```

```
l14 = new JLabel("Semester 5");
l14.setBounds(80,450,150,40);
l14.setFont(new Font("serif",Font.BOLD,26));
add(l14);
```

```
l15 = new JLabel("Semester 6");
l15.setBounds(80,520,150,40);
l15.setFont(new Font("serif",Font.BOLD,26));
add(l15);
```

```
l16 = new JLabel("Semester 7");
l16.setBounds(80,590,150,40);
l16.setFont(new Font("serif",Font.BOLD,26));
add(l16);
```

```
l17 = new JLabel("Semester 8");
l17.setBounds(80,660,150,40);
l17.setFont(new Font("serif",Font.BOLD,26));
add(l17);
```

```
b1 = new JLabel("Rs 43000");
b1.setBounds(280,170,100,40);
b1.setFont(new Font("serif",Font.PLAIN,26));
add(b1);
```

```
b2 = new JLabel("Rs 43000");
b2.setBounds(280,240,100,40);
b2.setFont(new Font("serif",Font.PLAIN,26));
add(b2);
```

```
b3 = new JLabel("Rs 43000");
b3.setBounds(280,310,100,40);
b3.setFont(new Font("serif",Font.PLAIN,26));
```

```
add(b3);

b4 = new JLabel("Rs 43000");
b4.setBounds(280,380,100,40);
b4.setFont(new Font("serif",Font.PLAIN,26));
add(b4);

b5 = new JLabel("Rs 43000");
b5.setBounds(280,450,100,40);
b5.setFont(new Font("serif",Font.PLAIN,26));
add(b5);

b6 = new JLabel("Rs 43000");
b6.setBounds(280,520,100,40);
b6.setFont(new Font("serif",Font.PLAIN,26));
add(b6);

b7 = new JLabel("Rs 43000");
b7.setBounds(280,590,100,40);
b7.setFont(new Font("serif",Font.PLAIN,26));
add(b7);

b8 = new JLabel("Rs 43000");
b8.setBounds(280,660,100,40);
b8.setFont(new Font("serif",Font.PLAIN,26));
add(b8);

bb1 = new JLabel("Rs 32000");
bb1.setBounds(480,170,100,40);
bb1.setFont(new Font("serif",Font.PLAIN,26));
add(bb1);

bb2 = new JLabel("Rs 32000");
bb2.setBounds(480,240,100,40);
bb2.setFont(new Font("serif",Font.PLAIN,26));
add(bb2);

bb3 = new JLabel("Rs 32000");
bb3.setBounds(480,310,100,40);
bb3.setFont(new Font("serif",Font.PLAIN,26));
add(bb3);

bb4 = new JLabel("Rs 32000");
bb4.setBounds(480,380,100,40);
bb4.setFont(new Font("serif",Font.PLAIN,26));
add(bb4);

bb17 = new JLabel("Rs 32000");
bb17.setBounds(480,450,100,40);
bb17.setFont(new Font("serif",Font.PLAIN,26));
add(bb17);

bb18 = new JLabel("Rs 32000");
bb18.setBounds(480,520,100,40);
```

```

        bb18.setFont(new Font("serif",Font.PLAIN,26));
        add(bb18);

        getContentPane().setBackground(Color.WHITE);
        setVisible(true);
    }

    public static void main(String[] args){
        new FeeStructure().setVisible(true);
    }
}

package university.management.system;

import javax.swing.*;
import java.awt.event.*;
import java.awt.*;
import java.sql.*;

public class EnterMarks extends JFrame implements ActionListener{

    JLabel l1,l2,l3,l4;
    JTextField t1,t2,t3,t4,t5,t6,t7,t8,t9,t10,t11;
    JButton b1;

    EnterMarks(){

        setSize(500,550);
        setLocation(400,200);
        setLayout(null);

        l1 = new JLabel("Enter marks of Student");
        l1.setFont(new Font("serif", Font.BOLD, 30));
        l1.setBounds(50,0,500,80);
        add(l1);

        l2 = new JLabel("Enter Roll Number");
        l2.setBounds(50,70,200,40);
        add(l2);

        t1 = new JTextField();
        t1.setBounds(180,80,200,20);
        add(t1);

        l3 = new JLabel("Enter Subject");
        l3.setBounds(50,150,200,40);
        add(l3);

        l4 = new JLabel("Enter Marks");
        l4.setBounds(250,150,200,40);
        add(l4);

        t2 = new JTextField();
        t2.setBounds(50,200,200,20);
        add(t2);
    }
}

```



```
t3 = new JTextField();  
t3.setBounds(250,200,200,20);  
add(t3);
```

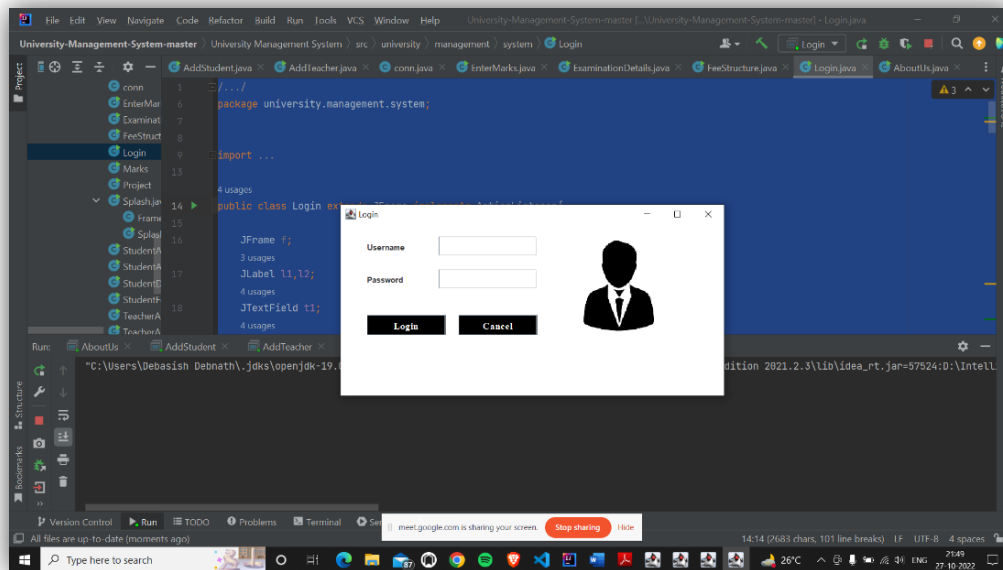
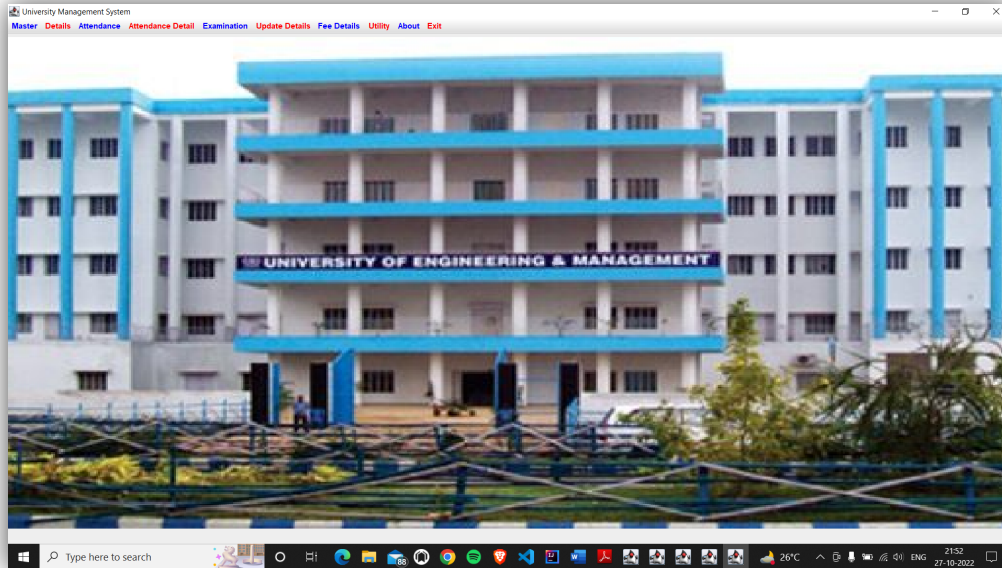
```
t4 = new JTextField();  
t4.setBounds(50,230,200,20);  
add(t4);
```

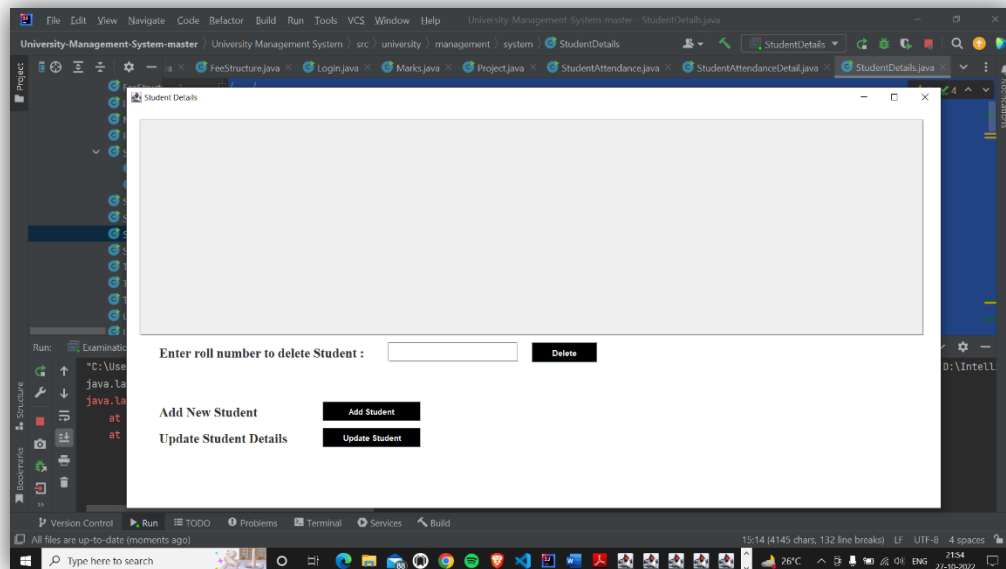
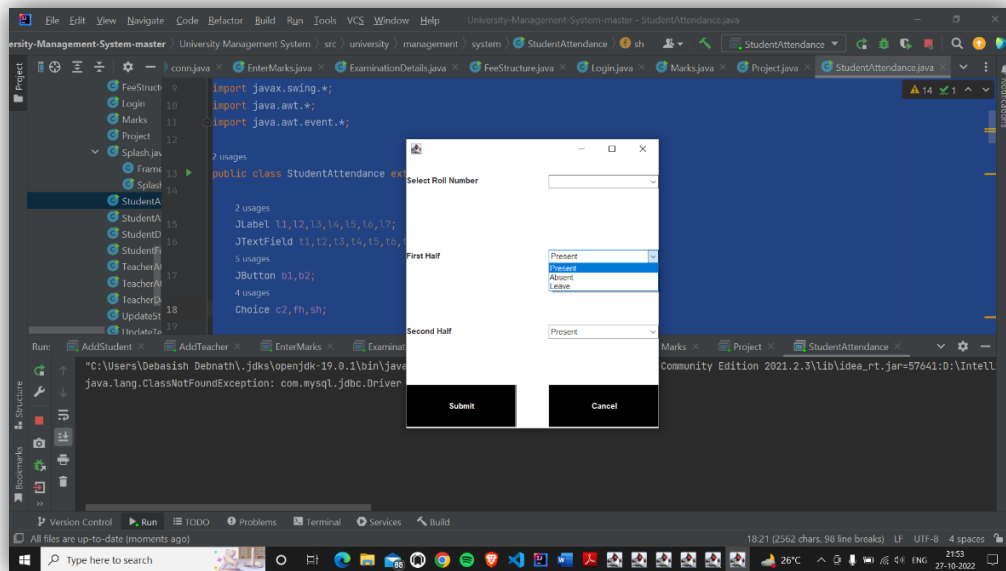
```
t5 = new JTextField();  
t5.setBounds(250,230,200,20);  
add(t5);
```

```
t6 = new JTextField();  
t6.setBounds(50,260,200,20);
```

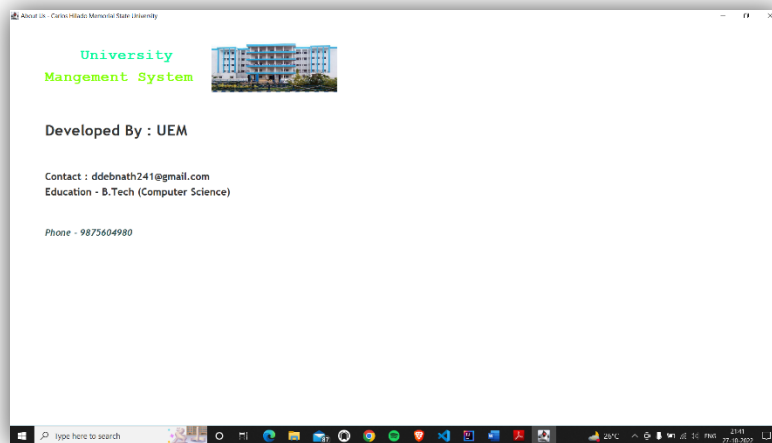
OUTPUT SNAPSHOTS

LOGIN INTERFACE:





TITLE PAGE:

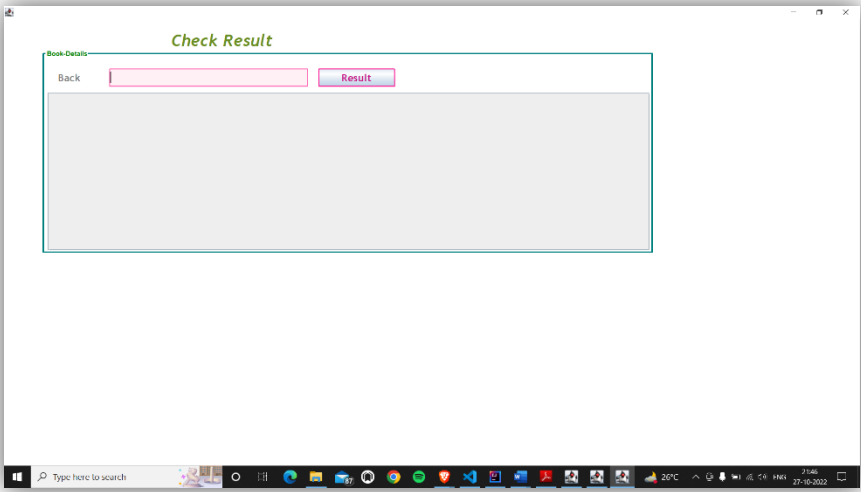


PRIMARY USER INTERFACE:

A screenshot of a web browser window showing a form titled 'Add Student'. The form is titled 'New Student Details' and contains several input fields for student information. The fields are arranged in two columns. The first column includes 'Name', 'Age', 'Address', 'Email Id', 'Class XII(%)', 'Roll No', and 'Branch'. The second column includes 'Father's Name', 'DOB (dd/mm/yyyy)', 'Phone', 'Class X(%)', 'Aadhar No', and 'Course'. The 'Roll No' field has the value '10030011' and the 'Course' dropdown is set to 'B.Tech'. The 'Branch' dropdown is set to 'Computer Science'. At the bottom of the form are two buttons: 'Submit' and 'Cancel'. The browser's address bar shows 'Add Student'. The Windows taskbar is visible at the bottom.

A screenshot of a web browser window showing a form titled 'Enter marks of Student'. The form has a title bar 'Enter marks of Student' and a subtitle 'Enter Roll Number' followed by an input field. Below this, there is a table with two columns: 'Enter Subject' and 'Enter Marks'. The table has five rows. At the bottom of the form is a 'Submit' button. The browser's address bar shows 'Enter marks of Student'. The Windows taskbar is visible at the bottom.

RESULT SECTION:



FEE STRUCTURE :

Fee Structure							
Course	BTech	BCA	BBA	Bsc	MBA	MCA	MTe
Semester 1	Rs 430...	Rs 320...	Rs 25000	Rs 18000	Rs 65000	Rs 55000	Rs 81
Semester 2	Rs 430...	Rs 320...	Rs 25000	Rs 18000	Rs 65000	Rs 55000	Rs 81
Semester 3	Rs 430...	Rs 320...	Rs 25000	Rs 18000	Rs 65000	Rs 55000	Rs 81
Semester 4	Rs 430...	Rs 320...	Rs 25000	Rs 18000	Rs 65000	Rs 55000	Rs 81
Semester 5	Rs 430...	Rs 320...	Rs 25000	Rs 18000			
Semester 6	Rs 430...	Rs 320...	Rs 25000	Rs 18000			
Semester 7	Rs 430...						
Semester 8	Rs 430...						

References

- | | |
|--|-------------------|
| Core Java™ 2 Volume I – Fundamentals 7 th Edition | - Cay S. Hortsman |
| Pearson Education – Sun Microsystems | Gary Cornell |
| Core Java™ 2 Volume II – Advanced | - Cay S. Hortsman |
| Pearson Education – Sun Microsystems | Gary Cornell |
| Head First Servlets & JSP | - Eric Freeman |
| O'Reilly – SPD | Elisabeth Freeman |
| The Book of JavaScript 2 nd Edition | - thau |
| SPD | |