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**CS23332 DATABASE MANAGEMENT SYSTEMS**

**UNIVERSITY MANAGEMENT SYSTEM**

**A MINI PROJECT REPORT**

| **Submitted by** |  |  |
| --- | --- | --- |
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In partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING IN

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

RAJALAKSHMI ENGINEERING COLLEGE (AUTONOMOUS) THANDALAM

CHENNAI-602105

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**BONAFIDE CERTIFICATE**

Certified that this project report “**UNIVERSITY MANAGEMENT SYSTEM**

” is the Bonafide work of **“MAHESH KUMAR J R (231501092), KARTICKEEYAAN M (231501074)”** who carried out the project work under my supervision.

Submitted for the Practical Examination held on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**INTERNAL EXAMINER EXTERNAL EXAMINER**

**ABSTRACT**

This paper presents the design and implementation of a University Management System, a web-based application aimed at automating various administrative and academic operations. The system utilizes a MySQL database to manage crucial information, including student records, faculty details, course registrations, and schedules. A user-friendly interface, developed using Java, facilitates efficient user logins, course enrollment, updating academic details, and managing administrative tasks. By automating routine processes and providing valuable insights, the system seeks to streamline university operations, improve user experience, and enhance overall institutional efficiency. The application allows users, identified by unique credentials, to perform key tasks such as creating accounts, enrolling in courses, and managing schedules, ensuring seamless interaction between students, faculty, and administrators.

**TABLE OF CONTENTS**

1. **INTRODUCTION**
   1. INTRODUCTION 1
   2. OBJECTIVES 2
   3. MODULES
2. **SURVEY OF TECHNOLOGIES**
   1. SOFTWARE DESCRIPTION 3
   2. LANGUAGES

2.2.1 JAVA

2.2.2 MYSQL

1. **3. REQUIREMENTS AND ANALYSIS**

3.1 REQUIREMENT SPECIFICATION 4

3.2 HARDWARE AND SOFTWARE REQUIREMENTS

1. **PROGRAM CODE** 5
2. **RESULT** 45
3. **TESTING**  50
4. **CONCLUSION** 51
5. **RESEARCH AND REFERENCE** 52

**CHAPTER 1**

**1.1 INTRODUCTION**

**The University Management System is an innovative platform designed to provide students, faculty, and administrators with a seamless experience in managing academic and administrative processes. With the growing reliance on digital platforms in education, this system streamlines activities such as student registrations, course enrollments, and schedule management, all within a user-friendly interface.**

**This project focuses on enhancing the convenience and accessibility of university services for all stakeholders, enabling them to efficiently manage academic operations through the following features:**

* **User Registration and Login:  
  Students, faculty, and administrators can register securely and log in to access personalized features, including viewing schedules, academic records, and notifications.**
* **Dynamic Course Search:  
  Users can explore available courses and schedules, filtering results by department, semester, and faculty.**
* **Interactive Enrollment Management:  
  Students can view course availability in real time, select their preferred courses, and add them to their schedule. The system ensures real-time updates to avoid conflicts.**
* **Customizable Profile Management:  
  Users can update their personal details, academic preferences, and communication settings to ensure a tailored experience.**
* **Academic and Administrative Notifications:  
  Users receive timely updates about class schedules, deadlines, and institutional announcements. Automated email notifications provide updates on:**
  + **Successful account registration.**
  + **Enrollment confirmations.**
  + **Schedule changes or faculty adjustments.**
  + **Event reminders and other institutional updates.**

**By digitizing traditional university processes, the University Management System offers unparalleled convenience, saving time and effort for users. This system emphasizes reliability, real-time updates, and ease of use, making it an essential tool for modernizing higher education.**

**1.2 OBJECTIVE**

**The main objective of the University Management System is to manage the details of Students, Faculty, Courses, and Schedules. It centralizes all critical information and automates tasks like registrations, course assignments, and schedule updates effectively using a MySQL database. The project is entirely user-focused, enabling stakeholders to access the system by signing up and logging in.**

**1.3 MODULES**

* **Sign Up**
* **Login**
* **Course Management**
* **Student and Faculty Profiles**
* **Updating Academic Records**

**This maintains the structure, features, and formatting of the original content but adapts it for a University Management System context.**

**CHAPTER 2**

**2.1 SOFTWARE DESCRIPTION**

**Visual studio Code**

Visual Studio Code combines the simplicity of a source code editor with powerful developer tooling, like IntelliSense code completion and debugging. First and foremost, it is an editor that gets out of your way. The delightfully frictionless edit-build-debug cycle means less time fiddling with your environment, and more time executing on your ideas.

**2.2 LANGUAGES**

**2.2.1 JAVA**

Java is a set of computer software and specifications that provides a software platform for developing application software and deploying it in a cross-platform computing environment. Java is used in a wide variety of computing platforms from embedded devices and mobile phones to enterprise servers and supercomputers. Java applets, which are less common than standalone Java applications, were commonly run in secure, sandboxed environments to provide many features of native applications through being embedded in HTML pages.

**2.2.2 MySQL**

Many of the world's largest and fastest-growing organizations including Facebook, Google, Adobe, Alcatel Lucent and Zappos rely on MySQL to save time and money powering their high-volume Web sites, business-critical systems and packaged software. Since then, the performance & scalability, reliability, and ease of use of the world's most popular open source database, characteristics that made MySQL the #1 choice for web applications, have relentlessly been improved.

**CHAPTER 3**

**3.1 REQUIREMENTS SPECIFICATION**

**User Requirements  
The system requirement in the University Management System focuses on managing student registrations, course enrollments, and schedule updates based on the roles of the users (students, faculty, and administrators).**

**System Requirements  
There should be a database backup of the university management system to ensure data security and recovery. The operating system should be Windows XP or a higher version of Windows.**

**3.2 HARDWARE AND SOFTWARE REQUIREMENTS**

**Software Requirements**

* **Operating System: Windows 10**
* **Front End: JAVA**
* **Back End: JAVA, MySQL**

**Hardware Requirements**

* **Desktop PC or a Laptop**
* **Operating System: Windows 10**
* **Intel® Core™ i3-6006U CPU @ 2.00GHz**
* **4.00 GB RAM**
* **64-bit operating system, x64-based processor**
* **1024 x 768 monitor resolution**
* **Keyboard and Mouse**

**CHAPTER 4**

**PROGRAM CODE:**

**Iml code :**

**<?xml version="1.0" encoding="UTF-8"?>**

**<module type="JAVA\_MODULE" version="4">**

**<component name="NewModuleRootManager" inherit-compiler-output="true">**

**<exclude-output />**

**<content url="file://$MODULE\_DIR$">**

**<sourceFolder url="file://$MODULE\_DIR$/src" isTestSource="false" />**

**</content>**

**<orderEntry type="inheritedJdk" />**

**<orderEntry type="sourceFolder" forTests="false" />**

**<orderEntry type="library" name="jcalendar-1.4" level="project" />**

**<orderEntry type="library" name="mysql-connector-java-8.0.28" level="project" />**

**<orderEntry type="library" name="rs2xml" level="project" />**

**</component>**

**</module>**

**Java files:**

**About.java :**

**package university.management.system;**

**import javax.swing.\*;**

**import java.awt.\*;**

**public class About extends JFrame {**

**About(){**

**ImageIcon i1 = new ImageIcon(ClassLoader.getSystemResource("icon/about.png"));**

**Image i2 = i1.getImage().getScaledInstance(300, 200, Image.SCALE\_DEFAULT);**

**ImageIcon i3 = new ImageIcon(i2);**

**JLabel img = new JLabel(i3);**

**img.setBounds(350,0,300,200);**

**add(img);**

**JLabel heading = new JLabel("<html> A.V</br>Technical University</html>");**

**heading.setBounds(70,20,300,130);**

**heading.setFont(new Font("Tahoma", Font.BOLD,30));**

**add(heading);**

**JLabel name = new JLabel("Techcoder A.V");**

**name.setBounds(60,260,550,40);**

**name.setFont(new Font("Tahoma", Font.BOLD,30));**

**add(name);**

**JLabel contact = new JLabel("techcoderav@gmail.com");**

**contact.setBounds(70,340,550,40);**

**contact.setFont(new Font("Tahoma", Font.BOLD,30));**

**add(contact);**

**setSize(700,500);**

**setLocation(400,150);**

**getContentPane().setBackground(new Color(252,228,210));**

**setLayout(null);**

**setVisible(true);**

**}**

**public static void main(String[] args) {**

**new About();**

**}**

**}**

**Addfactulty.java :**

**package university.management.system;**

**import com.toedter.calendar.JDateChooser;**

**import javax.swing.\*;**

**import java.awt.\*;**

**import java.awt.event.ActionEvent;**

**import java.awt.event.ActionListener;**

**import java.util.Random;**

**public class AddFaculty extends JFrame implements ActionListener {**

**JTextField textName,textfather,textAddress,textPhone,textemail,textM10,textM12,textAadhar;**

**JLabel empText;**

**JDateChooser cdob;**

**JComboBox courseBox, departmentBox;**

**JButton submit, cancel;**

**Random ran = new Random();**

**long f4 = Math.abs((ran.nextLong() % 9000L) + 1000L);**

**AddFaculty(){**

**getContentPane().setBackground(new Color(166,164,252));**

**JLabel heading = new JLabel("New Teacher Details");**

**heading.setBounds(310,30,500,50);**

**heading.setFont(new Font("serif",Font.BOLD,30));**

**add(heading);**

**JLabel name = new JLabel("Name");**

**name.setBounds(50,150,100,30);**

**name.setFont(new Font("serif",Font.BOLD,20));**

**add(name);**

**textName = new JTextField();**

**textName.setBounds(200,150,150,30);**

**add(textName);**

**JLabel fname = new JLabel("Father Name");**

**fname.setBounds(400,150,200,30);**

**fname.setFont(new Font("serif",Font.BOLD,20));**

**add(fname);**

**textfather = new JTextField();**

**textfather.setBounds(600,150,150,30);**

**add(textfather);**

**JLabel empID = new JLabel("Employee ID");**

**empID.setBounds(50,200,200,30);**

**empID.setFont(new Font("serif",Font.BOLD,20));**

**add(empID);**

**empText = new JLabel("1409"+f4);**

**empText.setBounds(200,200,150,30);**

**empText.setFont(new Font("serif",Font.BOLD,20));**

**add(empText);**

**JLabel dob = new JLabel("Date of Birth");**

**dob.setBounds(400,200,200,30);**

**dob.setFont(new Font("serif",Font.BOLD,20));**

**add(dob);**

**cdob = new JDateChooser();**

**cdob.setBounds(600,200,150,30);**

**add(cdob);**

**JLabel address = new JLabel("Address");**

**address.setBounds(50,250,200,30);**

**address.setFont(new Font("serif",Font.BOLD,20));**

**add(address);**

**textAddress = new JTextField();**

**textAddress.setBounds(200,250,150,30);**

**add(textAddress);**

**JLabel phone = new JLabel("Phone");**

**phone.setBounds(400,250,200,30);**

**phone.setFont(new Font("serif",Font.BOLD,20));**

**add(phone);**

**textPhone = new JTextField();**

**textPhone.setBounds(600,250,150,30);**

**add(textPhone);**

**JLabel email = new JLabel("Email");**

**email.setBounds(50,300,200,30);**

**email.setFont(new Font("serif",Font.BOLD,20));**

**add(email);**

**textemail = new JTextField();**

**textemail.setBounds(200,300,150,30);**

**add(textemail);**

**JLabel M10 = new JLabel("Class X (%)");**

**M10.setBounds(400,300,200,30);**

**M10.setFont(new Font("serif",Font.BOLD,20));**

**add(M10);**

**textM10 = new JTextField();**

**textM10.setBounds(600,300,150,30);**

**add(textM10);**

**JLabel M12 = new JLabel("Class XII (%)");**

**M12.setBounds(50,350,200,30);**

**M12.setFont(new Font("serif",Font.BOLD,20));**

**add(M12);**

**textM12 = new JTextField();**

**textM12.setBounds(200,350,150,30);**

**add(textM12);**

**JLabel AadharNo = new JLabel("Aadhar Number");**

**AadharNo.setBounds(400,350,200,30);**

**AadharNo.setFont(new Font("serif",Font.BOLD,20));**

**add(AadharNo);**

**textAadhar = new JTextField();**

**textAadhar.setBounds(600,350,150,30);**

**add(textAadhar);**

**JLabel Qualification = new JLabel("Qualification");**

**Qualification.setBounds(50,400,200,30);**

**Qualification.setFont(new Font("serif",Font.BOLD,20));**

**add(Qualification);**

**String course[] = {"B.Tech","BBA","BCA","BSC","MSC","MBA","MCA","MCom","MA","BA"};**

**courseBox = new JComboBox(course);**

**courseBox.setBounds(200,400,150,30);**

**courseBox.setBackground(Color.WHITE);**

**add(courseBox);**

**JLabel Department = new JLabel("Department");**

**Department.setBounds(400,400,200,30);**

**Department.setFont(new Font("serif",Font.BOLD,20));**

**add(Department);**

**String department[] = {"Computer Science","Electronics","Mechanical","Civil","IT"};**

**departmentBox = new JComboBox(department);**

**departmentBox.setBounds(600,400,150,30);**

**departmentBox.setBackground(Color.WHITE);**

**add(departmentBox);**

**submit = new JButton("Submit");**

**submit.setBounds(250,550,120,30);**

**submit.setBackground(Color.black);**

**submit.setForeground(Color.white);**

**submit.addActionListener(this);**

**add(submit);**

**cancel = new JButton("Cancel");**

**cancel.setBounds(450,550,120,30);**

**cancel.setBackground(Color.black);**

**cancel.setForeground(Color.white);**

**cancel.addActionListener(this);**

**add(cancel);**

**setSize(900,700);**

**setLocation(350,50);**

**setLayout(null);**

**setVisible(true);**

**}**

**@Override**

**public void actionPerformed(ActionEvent e) {**

**if (e.getSource() == submit){**

**String name = textName.getText();**

**String fname = textfather.getText();**

**String empid = empText.getText();**

**String dob = ((JTextField) cdob.getDateEditor().getUiComponent()).getText();**

**String address = textAddress.getText();**

**String phone = textPhone.getText();**

**String email = textemail.getText();**

**String x = textM10.getText();**

**String xii = textM12.getText();**

**String aadhar = textAadhar.getText();**

**String course = (String) courseBox.getSelectedItem();**

**String department = (String) departmentBox.getSelectedItem();**

**try{**

**String q = "insert into teacher values('"+name+"', '"+fname+"','"+empid+"','"+dob+"','"+address+"','"+phone+"','"+email+"','"+x+"','"+xii+"','"+aadhar+"','"+course+"','"+department+"')";**

**Conn c =new Conn();**

**c.statement.executeUpdate(q);**

**JOptionPane.showMessageDialog(null,"Details Inserted");**

**setVisible(false);**

**}catch (Exception E){**

**E.printStackTrace();**

**}**

**}else {**

**setVisible(false);**

**}**

**}**

**public static void main(String[] args) {**

**new AddFaculty();**

**}**

**}**

**Addstudent.java**

**package university.management.system;**

**import com.toedter.calendar.JDateChooser;**

**import javax.swing.\*;**

**import java.awt.\*;**

**import java.awt.event.ActionEvent;**

**import java.awt.event.ActionListener;**

**import java.util.Random;**

**public class AddStudent extends JFrame implements ActionListener {**

**JTextField textName,textfather,textAddress,textPhone,textemail,textM10,textM12,textAadhar;**

**JLabel empText;**

**JDateChooser cdob;**

**JComboBox courseBox, departmentBox;**

**JButton submit, cancel;**

**Random ran = new Random();**

**long f4 = Math.abs((ran.nextLong() % 9000L) + 1000L);**

**AddStudent(){**

**getContentPane().setBackground(new Color(128,176,255));**

**JLabel heading = new JLabel("New Teacher Details");**

**heading.setBounds(310,30,500,50);**

**heading.setFont(new Font("serif",Font.BOLD,30));**

**add(heading);**

**JLabel name = new JLabel("Name");**

**name.setBounds(50,150,100,30);**

**name.setFont(new Font("serif",Font.BOLD,20));**

**add(name);**

**textName = new JTextField();**

**textName.setBounds(200,150,150,30);**

**add(textName);**

**JLabel fname = new JLabel("Father Name");**

**fname.setBounds(400,150,200,30);**

**fname.setFont(new Font("serif",Font.BOLD,20));**

**add(fname);**

**textfather = new JTextField();**

**textfather.setBounds(600,150,150,30);**

**add(textfather);**

**JLabel empID = new JLabel("Roll Number");**

**empID.setBounds(50,200,200,30);**

**empID.setFont(new Font("serif",Font.BOLD,20));**

**add(empID);**

**empText = new JLabel("1409"+f4);**

**empText.setBounds(200,200,150,30);**

**empText.setFont(new Font("serif",Font.BOLD,20));**

**add(empText);**

**JLabel dob = new JLabel("Date of Birth");**

**dob.setBounds(400,200,200,30);**

**dob.setFont(new Font("serif",Font.BOLD,20));**

**add(dob);**

**cdob = new JDateChooser();**

**cdob.setBounds(600,200,150,30);**

**add(cdob);**

**JLabel address = new JLabel("Address");**

**address.setBounds(50,250,200,30);**

**address.setFont(new Font("serif",Font.BOLD,20));**

**add(address);**

**textAddress = new JTextField();**

**textAddress.setBounds(200,250,150,30);**

**add(textAddress);**

**JLabel phone = new JLabel("Phone");**

**phone.setBounds(400,250,200,30);**

**phone.setFont(new Font("serif",Font.BOLD,20));**

**add(phone);**

**textPhone = new JTextField();**

**textPhone.setBounds(600,250,150,30);**

**add(textPhone);**

**JLabel email = new JLabel("Email");**

**email.setBounds(50,300,200,30);**

**email.setFont(new Font("serif",Font.BOLD,20));**

**add(email);**

**textemail = new JTextField();**

**textemail.setBounds(200,300,150,30);**

**add(textemail);**

**JLabel M10 = new JLabel("Class X (%)");**

**M10.setBounds(400,300,200,30);**

**M10.setFont(new Font("serif",Font.BOLD,20));**

**add(M10);**

**textM10 = new JTextField();**

**textM10.setBounds(600,300,150,30);**

**add(textM10);**

**JLabel M12 = new JLabel("Class XII (%)");**

**M12.setBounds(50,350,200,30);**

**M12.setFont(new Font("serif",Font.BOLD,20));**

**add(M12);**

**textM12 = new JTextField();**

**textM12.setBounds(200,350,150,30);**

**add(textM12);**

**JLabel AadharNo = new JLabel("Aadhar Number");**

**AadharNo.setBounds(400,350,200,30);**

**AadharNo.setFont(new Font("serif",Font.BOLD,20));**

**add(AadharNo);**

**textAadhar = new JTextField();**

**textAadhar.setBounds(600,350,150,30);**

**add(textAadhar);**

**JLabel Qualification = new JLabel("Course");**

**Qualification.setBounds(50,400,200,30);**

**Qualification.setFont(new Font("serif",Font.BOLD,20));**

**add(Qualification);**

**String course[] = {"B.Tech","BBA","BCA","BSC","MSC","MBA","MCA","MCom","MA","BA"};**

**courseBox = new JComboBox(course);**

**courseBox.setBounds(200,400,150,30);**

**courseBox.setBackground(Color.WHITE);**

**add(courseBox);**

**JLabel Department = new JLabel("Branch");**

**Department.setBounds(400,400,200,30);**

**Department.setFont(new Font("serif",Font.BOLD,20));**

**add(Department);**

**String department[] = {"Computer Science","Electronics","Mechanical","Civil","IT"};**

**departmentBox = new JComboBox(department);**

**departmentBox.setBounds(600,400,150,30);**

**departmentBox.setBackground(Color.WHITE);**

**add(departmentBox);**

**submit = new JButton("Submit");**

**submit.setBounds(250,550,120,30);**

**submit.setBackground(Color.black);**

**submit.setForeground(Color.white);**

**submit.addActionListener(this);**

**add(submit);**

**cancel = new JButton("Cancel");**

**cancel.setBounds(450,550,120,30);**

**cancel.setBackground(Color.black);**

**cancel.setForeground(Color.white);**

**cancel.addActionListener(this);**

**add(cancel);**

**setSize(900,700);**

**setLocation(350,50);**

**setLayout(null);**

**setVisible(true);**

**}**

**@Override**

**public void actionPerformed(ActionEvent e) {**

**if (e.getSource() == submit){**

**String name = textName.getText();**

**String fname = textfather.getText();**

**String empid = empText.getText();**

**String dob = ((JTextField) cdob.getDateEditor().getUiComponent()).getText();**

**String address = textAddress.getText();**

**String phone = textPhone.getText();**

**String email = textemail.getText();**

**String x = textM10.getText();**

**String xii = textM12.getText();**

**String aadhar = textAadhar.getText();**

**String course = (String) courseBox.getSelectedItem();**

**String department = (String) departmentBox.getSelectedItem();**

**try{**

**String q = "insert into student values('"+name+"', '"+fname+"','"+empid+"','"+dob+"','"+address+"','"+phone+"','"+email+"','"+x+"','"+xii+"','"+aadhar+"','"+course+"','"+department+"')";**

**Conn c =new Conn();**

**c.statement.executeUpdate(q);**

**JOptionPane.showMessageDialog(null,"Details Inserted");**

**setVisible(false);**

**}catch (Exception E){**

**E.printStackTrace();**

**}**

**}else {**

**setVisible(false);**

**}**

**}**

**public static void main(String[] args) {**

**new AddStudent();**

**}**

**}**

**Conn.java**

**package university.management.system;**

**import java.sql.Connection;**

**import java.sql.DriverManager;**

**import java.sql.Statement;**

**public class Conn {**

**Connection connection;**

**Statement statement;**

**Conn(){**

**try {**

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

**connection = DriverManager.getConnection("jdbc:mysql:///universitymanagement","root","7010311401");**

**statement = connection.createStatement();**

**}catch (Exception e){**

**e.printStackTrace();**

**}**

**}**

**}**

**Entermarks.java**

**package university.management.system;**

**import javax.swing.\*;**

**import java.awt.\*;**

**import java.awt.event.ActionEvent;**

**import java.awt.event.ActionListener;**

**import java.sql.ResultSet;**

**public class EnterMarks extends JFrame implements ActionListener {**

**Choice choicerollno;**

**JComboBox comboBox;**

**JTextField sub1, sub2, sub3, sub4, sub5, mrk1, mrk2, mrk3, mrk4, mrk5;**

**JButton submit,cancel;**

**EnterMarks(){**

**getContentPane().setBackground(new Color(252,245,210));**

**ImageIcon i1 = new ImageIcon(ClassLoader.getSystemResource("icon/exam.png"));**

**Image i2 = i1.getImage().getScaledInstance(400,300,Image.SCALE\_DEFAULT);**

**ImageIcon i3 = new ImageIcon(i2);**

**JLabel img = new JLabel(i3);**

**img.setBounds(500,40,400,300);**

**add(img);**

**JLabel heading = new JLabel("Enter Marks of Student");**

**heading.setBounds(50,0,500,50);**

**heading.setFont(new Font("Tahoma",Font.BOLD,20));**

**add(heading);**

**JLabel rollno = new JLabel("Select Roll Number");**

**rollno.setBounds(50,70,150,20);**

**add(rollno);**

**choicerollno = new Choice();**

**choicerollno.setBounds(200,70,150,20);**

**add(choicerollno);**

**try {**

**Conn c = new Conn();**

**ResultSet resultSet = c.statement.executeQuery("select \* from student");**

**while (resultSet.next()){**

**choicerollno.add(resultSet.getString("rollno"));**

**}**

**}catch (Exception e) {**

**e.printStackTrace();**

**}**

**JLabel sem = new JLabel("Select Semester");**

**sem.setBounds(50,110,150,20);**

**add(sem);**

**String semester[] = {"1st Semester","2st Semester","3st Semester","4st Semester","5st Semester","6st Semester","7st Semester","8st Semester"};**

**comboBox = new JComboBox(semester);**

**comboBox.setBounds(200,110,150,20);**

**comboBox.setBackground(Color.WHITE);**

**add(comboBox);**

**JLabel entersub = new JLabel("Enter Subject");**

**entersub.setBounds(100,150,200,40);**

**add(entersub);**

**JLabel entermarks = new JLabel("Enter Marks");**

**entermarks.setBounds(320,150,200,40);**

**add(entermarks);**

**sub1 = new JTextField();**

**sub1.setBounds(50,200,200,20);**

**add(sub1);**

**sub2 = new JTextField();**

**sub2.setBounds(50,230,200,20);**

**add(sub2);**

**sub3 = new JTextField();**

**sub3.setBounds(50,260,200,20);**

**add(sub3);**

**sub4 = new JTextField();**

**sub4.setBounds(50,290,200,20);**

**add(sub4);**

**sub5 = new JTextField();**

**sub5.setBounds(50,320,200,20);**

**add(sub5);**

**mrk1 = new JTextField();**

**mrk1.setBounds(250,200,200,20);**

**add(mrk1);**

**mrk2 = new JTextField();**

**mrk2.setBounds(250,230,200,20);**

**add(mrk2);**

**mrk3 = new JTextField();**

**mrk3.setBounds(250,260,200,20);**

**add(mrk3);**

**mrk4 = new JTextField();**

**mrk4.setBounds(250,290,200,20);**

**add(mrk4);**

**mrk5 = new JTextField();**

**mrk5.setBounds(250,320,200,20);**

**add(mrk5);**

**submit = new JButton("Submit");**

**submit.setBounds(70,360,150,25);**

**submit.setBackground(Color.black);**

**submit.setForeground(Color.WHITE);**

**submit.addActionListener(this);**

**add(submit);**

**cancel = new JButton("Cancel");**

**cancel.setBounds(280,360,150,25);**

**cancel.setBackground(Color.black);**

**cancel.setForeground(Color.WHITE);**

**cancel.addActionListener(this);**

**add(cancel);**

**setSize(1000,500);**

**setLayout(null);**

**setLocation(300,150);**

**setVisible(true);**

**}**

**@Override**

**public void actionPerformed(ActionEvent e) {**

**if (e.getSource() == submit){**

**try {**

**Conn c = new Conn();**

**String Q1 = "insert into subject values('"+choicerollno.getSelectedItem()+"', '"+comboBox.getSelectedItem()+"','"+sub1.getText()+"','"+sub2.getText()+"', '"+sub3.getText()+"', '"+sub4.getText()+"', '"+sub5.getText()+"')";**

**String Q2 = "insert into marks values('"+choicerollno.getSelectedItem()+"', '"+comboBox.getSelectedItem()+"','"+mrk1.getText()+"','"+mrk2.getText()+"', '"+mrk3.getText()+"', '"+mrk4.getText()+"', '"+mrk5.getText()+"')";**

**c.statement.executeUpdate(Q1);**

**c.statement.executeUpdate(Q2);**

**JOptionPane.showMessageDialog(null,"Marks Inserted Sucessfully");**

**setVisible(false);**

**}catch (Exception E){**

**E.printStackTrace();**

**}**

**}**

**}**

**public static void main(String[] args) {**

**new EnterMarks();**

**}**

**}**

**Examinationdetails.java**

**package university.management.system;**

**import com.sun.source.tree.IfTree;**

**import net.proteanit.sql.DbUtils;**

**import javax.swing.\*;**

**import java.awt.\*;**

**import java.awt.event.ActionEvent;**

**import java.awt.event.ActionListener;**

**import java.awt.event.MouseAdapter;**

**import java.awt.event.MouseEvent;**

**import java.sql.ResultSet;**

**public class ExaminationDetails extends JFrame implements ActionListener {**

**JTextField search;**

**JButton result, back;**

**JTable table;**

**ExaminationDetails(){**

**getContentPane().setBackground(new Color(241,252,210));**

**JLabel heading = new JLabel("check Result");**

**heading.setBounds(350,15,400,50);**

**heading.setFont(new Font("Tahoma",Font.BOLD,24));**

**add(heading);**

**search = new JTextField();**

**search.setBounds(80,90,200,30);**

**search.setFont(new Font("Tahoma", Font.PLAIN,18));**

**add(search);**

**result = new JButton("Result");**

**result.setBounds(300,90,120,30);**

**result.setBackground(Color.black);**

**result.setForeground(Color.white);**

**result.addActionListener(this);**

**add(result);**

**back = new JButton("Back");**

**back.setBounds(440,90,120,30);**

**back.setBackground(Color.black);**

**back.setForeground(Color.white);**

**back.addActionListener(this);**

**add(back);**

**table = new JTable();**

**JScrollPane scrollPane = new JScrollPane(table);**

**scrollPane.setBounds(0,130,1000,310);**

**add(scrollPane);**

**try {**

**Conn c = new Conn();**

**ResultSet resultSet = c.statement.executeQuery("select \* from student");**

**table.setModel(DbUtils.resultSetToTableModel(resultSet));**

**}catch (Exception e){**

**e.printStackTrace();**

**}**

**table.addMouseListener(new MouseAdapter() {**

**@Override**

**public void mouseClicked(MouseEvent e) {**

**int row = table.getSelectedRow();**

**search.setText(table.getModel().getValueAt(row,2).toString());**

**}**

**});**

**setSize(1000,475);**

**setLocation(300,100);**

**setLayout(null);**

**setVisible(true);**

**}**

**@Override**

**public void actionPerformed(ActionEvent e) {**

**if (e.getSource() == result){**

**setVisible(false);**

**new Marks(search.getText());**

**}else {**

**setVisible(false);**

**}**

**}**

**public static void main(String[] args) {**

**new ExaminationDetails();**

**}**

**}**

**Feestructure.java**

**package university.management.system;**

**import net.proteanit.sql.DbUtils;**

**import javax.swing.\*;**

**import java.awt.\*;**

**import java.awt.event.ActionEvent;**

**import java.awt.event.ActionListener;**

**import java.sql.ResultSet;**

**public class FreeStructure extends JFrame implements ActionListener {**

**FreeStructure(){**

**getContentPane().setBackground(Color.WHITE);**

**JLabel heading = new JLabel("Fee Structure");**

**heading.setBounds(400,10,400,30);**

**heading.setFont(new Font("Tahoma", Font.BOLD, 30));**

**add(heading);**

**JTable table = new JTable();**

**try {**

**Conn c = new Conn();**

**ResultSet resultSet = c.statement.executeQuery("select \* from fee");**

**table.setModel(DbUtils.resultSetToTableModel(resultSet));**

**}catch (Exception e){**

**e.printStackTrace();**

**}**

**JScrollPane js = new JScrollPane(table);**

**js.setBounds(0,60,1000,700);**

**add(js);**

**setSize(1000,700);**

**setLocation(250,50);**

**setLayout(null);**

**setVisible(true);**

**}**

**@Override**

**public void actionPerformed(ActionEvent e) {**

**}**

**public static void main(String[] args) {**

**new FreeStructure();**

**}**

**}**

**Login.java**

**package university.management.system;**

**import javax.swing.\*;**

**import java.awt.\*;**

**import java.awt.event.ActionEvent;**

**import java.awt.event.ActionListener;**

**import java.sql.ResultSet;**

**public class Login extends JFrame implements ActionListener {**

**JTextField textFieldName;**

**JPasswordField passwordField;**

**JButton login, back;**

**Login(){**

**JLabel labelName = new JLabel("Username");**

**labelName.setBounds(40,20,100,20);**

**add(labelName);**

**textFieldName = new JTextField();**

**textFieldName.setBounds(150,20,150,20);**

**add(textFieldName);**

**JLabel labelpass = new JLabel("Password");**

**labelpass.setBounds(40,70,100,20);**

**add(labelpass);**

**passwordField = new JPasswordField();**

**passwordField.setBounds(150,70,150,20);**

**add(passwordField);**

**login = new JButton("Login");**

**login.setBounds(40,140,120,30);**

**login.setBackground(Color.black);**

**login.setForeground(Color.white);**

**login.addActionListener(this);**

**add(login);**

**back = new JButton("Back");**

**back.setBounds(180,140,120,30);**

**back.setBackground(Color.black);**

**back.setForeground(Color.white);**

**back.addActionListener(this);**

**add(back);**

**ImageIcon i1 = new ImageIcon(ClassLoader.getSystemResource("icon/second.png"));**

**Image i2 = i1.getImage().getScaledInstance(200,200,Image.SCALE\_DEFAULT);**

**ImageIcon i3 = new ImageIcon(i2);**

**JLabel img = new JLabel(i3);**

**img.setBounds(350,20,200,200);**

**add(img);**

**ImageIcon i11 = new ImageIcon(ClassLoader.getSystemResource("icon/loginback.png"));**

**Image i22 = i11.getImage().getScaledInstance(600,300,Image.SCALE\_DEFAULT);**

**ImageIcon i33 = new ImageIcon(i22);**

**JLabel image = new JLabel(i33);**

**image.setBounds(0,0,600,300);**

**add(image);**

**setSize(600,300);**

**setLocation(500,250);**

**setLayout(null);**

**setVisible(true);**

**}**

**@Override**

**public void actionPerformed(ActionEvent e) {**

**if (e.getSource() == login){**

**String username = textFieldName.getText();**

**String password = passwordField.getText();**

**String query = "select \* from login where username='"+username+"' and password = '"+password+"'";**

**try {**

**Conn c = new Conn();**

**ResultSet resultSet = c.statement.executeQuery(query);**

**if (resultSet.next()){**

**setVisible(false);**

**new main\_class();**

**}else {**

**JOptionPane.showMessageDialog(null,"Invalid username or password");**

**}**

**}catch (Exception E){**

**E.printStackTrace();**

**}**

**}else {**

**setVisible(false);**

**}**

**}**

**public static void main(String[] args) {**

**new Login();**

**}**

**}**

**Main\_class.java**

**package university.management.system;**

**import javax.swing.\*;**

**import java.awt.\*;**

**import java.awt.event.ActionEvent;**

**import java.awt.event.ActionListener;**

**public class main\_class extends JFrame implements ActionListener {**

**main\_class(){**

**ImageIcon i1 = new ImageIcon(ClassLoader.getSystemResource("icon/third.jpg"));**

**Image i2 = i1.getImage().getScaledInstance(1540,750, Image.SCALE\_DEFAULT);**

**ImageIcon i3 = new ImageIcon(i2);**

**JLabel img = new JLabel(i3);**

**add(img);**

**JMenuBar mb = new JMenuBar();**

**// new Information**

**JMenu newInfo = new JMenu("New Information");**

**newInfo.setForeground(Color.BLACK);**

**mb.add(newInfo);**

**JMenuItem facultyInfo = new JMenuItem("New Faculty Information");**

**facultyInfo.setBackground(Color.WHITE);**

**facultyInfo.addActionListener(this);**

**newInfo.add(facultyInfo);**

**JMenuItem studentInfo = new JMenuItem("New Student Information");**

**studentInfo.setBackground(Color.WHITE);**

**studentInfo.addActionListener(this);**

**newInfo.add(studentInfo);**

**// Details**

**JMenu details = new JMenu("View Details");**

**details.setForeground(Color.BLACK);**

**details.addActionListener(this);**

**mb.add(details);**

**JMenuItem facultydetails = new JMenuItem("View Faculty Details");**

**facultydetails.setBackground(Color.WHITE);**

**facultydetails.addActionListener(this);**

**details.add(facultydetails);**

**JMenuItem studentdetails = new JMenuItem("View Student Details");**

**studentdetails.setBackground(Color.WHITE);**

**studentdetails.addActionListener(this);**

**details.add(studentdetails);**

**// Leave**

**JMenu leave = new JMenu("Apply Leave");**

**leave.setForeground(Color.BLACK);**

**leave.addActionListener(this);**

**mb.add(leave);**

**JMenuItem facultyLeave = new JMenuItem("Faculty Leave");**

**facultyLeave.setBackground(Color.WHITE);**

**facultyLeave.addActionListener(this);**

**leave.add(facultyLeave);**

**JMenuItem studentLeave = new JMenuItem("Student Leave");**

**studentLeave.setBackground(Color.WHITE);**

**studentLeave.addActionListener(this);**

**leave.add(studentLeave);**

**// Leave Details**

**JMenu leaveDetails = new JMenu("Leave Details");**

**leaveDetails.setForeground(Color.BLACK);**

**studentdetails.addActionListener(this);**

**mb.add(leaveDetails);**

**JMenuItem facultyleaveDetails = new JMenuItem("Faculty Leave Details");**

**facultyleaveDetails.setBackground(Color.WHITE);**

**facultyleaveDetails.addActionListener(this);**

**leaveDetails.add(facultyleaveDetails);**

**JMenuItem studentleaveDetails = new JMenuItem("Student Leave Details");**

**studentleaveDetails.setBackground(Color.WHITE);**

**studentleaveDetails.addActionListener(this);**

**leaveDetails.add(studentleaveDetails);**

**// Exams**

**JMenu exam = new JMenu("Examination");**

**exam.setForeground(Color.BLACK);**

**exam.addActionListener(this);**

**mb.add(exam);**

**JMenuItem ExaminationDetails = new JMenuItem("Examination Results");**

**ExaminationDetails.setBackground(Color.WHITE);**

**ExaminationDetails.addActionListener(this);**

**exam.add(ExaminationDetails);**

**JMenuItem EnterMarks = new JMenuItem("Enter Marks");**

**EnterMarks.setBackground(Color.WHITE);**

**EnterMarks.addActionListener(this);**

**exam.add(EnterMarks);**

**// update Info**

**JMenu updateInfo = new JMenu("Update Details");**

**updateInfo.setForeground(Color.BLACK);**

**updateInfo.addActionListener(this);**

**mb.add(updateInfo);**

**JMenuItem updatefacultyinfo = new JMenuItem("Update Faculty Details");**

**updatefacultyinfo.setBackground(Color.WHITE);**

**updatefacultyinfo.addActionListener(this);**

**updateInfo.add(updatefacultyinfo);**

**JMenuItem updatestudentinfo = new JMenuItem("Update Student Details");**

**updatestudentinfo.setBackground(Color.WHITE);**

**updatestudentinfo.addActionListener(this);**

**updateInfo.add(updatestudentinfo);**

**// fee**

**JMenu fee = new JMenu("Fee Details");**

**fee.setForeground(Color.BLACK);**

**fee.addActionListener(this);**

**mb.add(fee);**

**JMenuItem feestructure = new JMenuItem("Fee Structure");**

**feestructure.setBackground(Color.WHITE);**

**feestructure.addActionListener(this);**

**fee.add(feestructure);**

**JMenuItem feeForm = new JMenuItem("Student Fee Form");**

**feeForm.setBackground(Color.WHITE);**

**feeForm.addActionListener(this);**

**fee.add(feeForm);**

**// utility**

**JMenu utility = new JMenu("Utility");**

**utility.setForeground(Color.BLACK);**

**mb.add(utility);**

**JMenuItem ca = new JMenuItem("Calculator");**

**ca.setBackground(Color.WHITE);**

**ca.addActionListener(this);**

**utility.add(ca);**

**JMenuItem Notepad = new JMenuItem("Notepad");**

**Notepad.setBackground(Color.WHITE);**

**Notepad.addActionListener(this);**

**utility.add(Notepad);**

**// about**

**JMenu about = new JMenu("About");**

**about.setForeground(Color.BLACK);**

**mb.add(about);**

**JMenuItem About = new JMenuItem("About");**

**About.setBackground(Color.WHITE);**

**About.addActionListener(this);**

**about.add(About);**

**// exit**

**JMenu exit = new JMenu("Exit");**

**exit.setForeground(Color.BLACK);**

**mb.add(exit);**

**JMenuItem Exit = new JMenuItem("Exit");**

**Exit.setBackground(Color.WHITE);**

**Exit.addActionListener(this);**

**exit.add(Exit);**

**setJMenuBar(mb);**

**setSize(1540,850);**

**setVisible(true);**

**}**

**@Override**

**public void actionPerformed(ActionEvent e) {**

**String sm = e.getActionCommand();**

**if (sm.equals("Exit")){**

**System.exit(15);**

**} else if (sm.equals("Calculator")){**

**try {**

**Runtime.getRuntime().exec("calc.exe");**

**}catch (Exception E){**

**E.printStackTrace();**

**}**

**} else if (sm.equals("Notepad")) {**

**try {**

**Runtime.getRuntime().exec("notepad.exe");**

**}catch (Exception E){**

**E.printStackTrace();**

**}**

**} else if (sm.equals("New Faculty Information")) {**

**new AddFaculty();**

**}else if (sm.equals("New Student Information")){**

**new AddStudent();**

**} else if (sm.equals("View Faculty Details")) {**

**new TeacherDetails();**

**} else if (sm.equals("View Student Details")) {**

**new StudentDetails();**

**} else if (sm.equals("Faculty Leave")) {**

**new TeacherLeave();**

**} else if (sm.equals("Student Leave")) {**

**new StudentLeave();**

**} else if (sm.equals("Faculty Leave Details")) {**

**new TeacherLeaveDetails();**

**} else if (sm.equals("Student Leave Details")) {**

**new StudentLeaveDetails();**

**} else if (sm.equals("Update Faculty Details")) {**

**new UpdateTeacher();**

**} else if (sm.equals("Update Student Details")) {**

**new updateStudent();**

**} else if (sm.equals("Enter Marks")) {**

**new EnterMarks();**

**} else if (sm.equals("Examination Results")) {**

**new ExaminationDetails();**

**} else if (sm.equals("Fee Structure")) {**

**new FreeStructure();**

**}else if (sm.equals("Student Fee Form")){**

**new StudentFeeForm();**

**} else if (sm.equals("About")) {**

**new About();**

**}**

**}**

**public static void main(String[] args) {**

**new main\_class();**

**}**

**}**

**Marks.java**

**package university.management.system;**

**import javax.swing.\*;**

**import java.awt.\*;**

**import java.awt.event.ActionEvent;**

**import java.awt.event.ActionListener;**

**import java.sql.ResultSet;**

**public class Marks extends JFrame implements ActionListener {**

**String rollno;**

**JButton cancel;**

**Marks(String rollno){**

**this.rollno = rollno;**

**setSize(500, 600);**

**setLocation(500, 100);**

**setLayout(null);**

**getContentPane().setBackground(new Color(210, 252, 248));**

**JLabel heading = new JLabel("A.V Technical Univeristy");**

**heading.setBounds(100, 10, 500, 25);**

**heading.setFont(new Font("Tahoma", Font.BOLD, 20));**

**add(heading);**

**JLabel subheading = new JLabel("Result of Examination 2023");**

**subheading.setBounds(100, 50, 500, 20);**

**subheading.setFont(new Font("Tahoma", Font.BOLD, 18));**

**add(subheading);**

**JLabel lblrollno = new JLabel("Roll Number " + rollno);**

**lblrollno.setBounds(60, 100, 500, 20);**

**lblrollno.setFont(new Font("Tahoma", Font.PLAIN, 18));**

**add(lblrollno);**

**JLabel lblsemester = new JLabel();**

**lblsemester.setBounds(60, 130, 500, 20);**

**lblsemester.setFont(new Font("Tahoma", Font.PLAIN, 18));**

**add(lblsemester);**

**JLabel sub1 = new JLabel();**

**sub1.setBounds(100, 200, 500, 20);**

**sub1.setFont(new Font("Tahoma", Font.PLAIN, 18));**

**add(sub1);**

**JLabel sub2 = new JLabel();**

**sub2.setBounds(100, 230, 500, 20);**

**sub2.setFont(new Font("Tahoma", Font.PLAIN, 18));**

**add(sub2);**

**JLabel sub3 = new JLabel();**

**sub3.setBounds(100, 260, 500, 20);**

**sub3.setFont(new Font("Tahoma", Font.PLAIN, 18));**

**add(sub3);**

**JLabel sub4 = new JLabel();**

**sub4.setBounds(100, 290, 500, 20);**

**sub4.setFont(new Font("Tahoma", Font.PLAIN, 18));**

**add(sub4);**

**JLabel sub5 = new JLabel();**

**sub5.setBounds(100, 320, 500, 20);**

**sub5.setFont(new Font("Tahoma", Font.PLAIN, 18));**

**add(sub5);**

**try {**

**Conn c = new Conn();**

**ResultSet rs1 = c.statement.executeQuery("select \* from subject where rollno = '"+rollno+"'");**

**while(rs1.next()) {**

**sub1.setText(rs1.getString("subj1"));**

**sub2.setText(rs1.getString("subj2"));**

**sub3.setText(rs1.getString("subj3"));**

**sub4.setText(rs1.getString("subj4"));**

**sub5.setText(rs1.getString("subj5"));**

**}**

**ResultSet rs2 = c.statement.executeQuery("select \* from marks where rollno = '"+rollno+"'");**

**while(rs2.next()) {**

**sub1.setText(sub1.getText() + "------------" + rs2.getString("mrk1"));**

**sub2.setText(sub2.getText() + "------------" + rs2.getString("mrk2"));**

**sub3.setText(sub3.getText() + "------------" + rs2.getString("mrk3"));**

**sub4.setText(sub4.getText() + "------------" + rs2.getString("mrk4"));**

**sub5.setText(sub5.getText() + "------------" + rs2.getString("mrk5"));**

**lblsemester.setText("Semester " + rs2.getString("semester"));**

**}**

**} catch (Exception e) {**

**e.printStackTrace();**

**}**

**cancel = new JButton("Back");**

**cancel.setBounds(250, 500, 120, 25);**

**cancel.setBackground(Color.BLACK);**

**cancel.setForeground(Color.WHITE);**

**cancel.addActionListener(this);**

**cancel.setFont(new Font("Tahoma", Font.BOLD, 15));**

**add(cancel);**

**setVisible(true);**

**}**

**@Override**

**public void actionPerformed(ActionEvent e) {**

**setVisible(false);**

**}**

**public static void main(String[] args) {**

**new Marks("");**

**}**

**}**

**Splash.java**

**package university.management.system;**

**import javax.swing.\*;**

**import java.awt.\*;**

**public class Splash extends JFrame implements Runnable {**

**Thread t;**

**Splash(){**

**ImageIcon i1 = new ImageIcon(ClassLoader.getSystemResource("icon/first.png"));**

**Image i2 = i1.getImage().getScaledInstance(1000,700,Image.SCALE\_DEFAULT);**

**ImageIcon i3 = new ImageIcon(i2);**

**JLabel img = new JLabel(i3);**

**add(img);**

**t = new Thread(this);**

**t.start();**

**setVisible(true);**

**int x =1;**

**for (int i =2; i<=600; i+=4, x+=1){**

**setLocation(600 - ((i + x)/2), 350 - (i/2));**

**setSize(i + 3 \*x, i + x/2);**

**try{**

**Thread.sleep(10);**

**}catch (Exception e){**

**e.printStackTrace();**

**}**

**}**

**}**

**public void run(){**

**try{**

**Thread.sleep(7000);**

**setVisible(false);**

**new Login();**

**}catch (Exception e){**

**e.printStackTrace();**

**}**

**}**

**public static void main(String[] args) {**

**new Splash();**

**}**

**}**

**Studentdetails.java**

**package university.management.system;**

**import net.proteanit.sql.DbUtils;**

**import javax.swing.\*;**

**import java.awt.\*;**

**import java.awt.event.ActionEvent;**

**import java.awt.event.ActionListener;**

**import java.sql.ResultSet;**

**public class StudentDetails extends JFrame implements ActionListener {**

**Choice choice;**

**JTable table;**

**JButton search,print, update, add, cancel;**

**StudentDetails(){**

**getContentPane().setBackground(new Color(210,252,218));**

**JLabel heading = new JLabel("Search by Roll Number");**

**heading.setBounds(20,20,150,20);**

**add(heading);**

**choice = new Choice();**

**choice.setBounds(180,20,150,20);**

**add(choice);**

**try {**

**Conn c = new Conn();**

**ResultSet resultSet = c.statement.executeQuery("select \* from student");**

**while (resultSet.next()){**

**choice.add(resultSet.getString("rollno"));**

**}**

**}catch (Exception e){**

**e.printStackTrace();**

**}**

**table = new JTable();**

**try {**

**Conn c = new Conn();**

**ResultSet resultSet = c.statement.executeQuery("select \* from student");**

**table.setModel(DbUtils.resultSetToTableModel(resultSet));**

**}catch (Exception e){**

**e.printStackTrace();**

**}**

**JScrollPane js = new JScrollPane(table);**

**js.setBounds(0,100,900,600);**

**add(js);**

**search = new JButton("Search");**

**search.setBounds(20,70,80,20);**

**search.addActionListener(this);**

**add(search);**

**print = new JButton("Print");**

**print.setBounds(120,70,80,20);**

**print.addActionListener(this);**

**add(print);**

**add = new JButton("Add");**

**add.setBounds(220,70,80,20);**

**add.addActionListener(this);**

**add(add);**

**update = new JButton("Update");**

**update.setBounds(320,70,80,20);**

**update.addActionListener(this);**

**add(update);**

**cancel = new JButton("Cancel");**

**cancel.setBounds(420,70,80,20);**

**cancel.addActionListener(this);**

**add(cancel);**

**setLayout(null);**

**setSize(900,700);**

**setLocation(300,100);**

**setVisible(true);**

**}**

**@Override**

**public void actionPerformed(ActionEvent e) {**

**if (e.getSource() == search){**

**String q = "select \* from student where rollno = '"+choice.getSelectedItem()+"'";**

**try {**

**Conn c = new Conn();**

**ResultSet resultSet = c.statement.executeQuery(q);**

**table.setModel(DbUtils.resultSetToTableModel(resultSet));**

**}catch (Exception E){**

**E.printStackTrace();**

**}**

**}else if (e.getSource() == print){**

**try {**

**table.print();**

**}catch (Exception E){**

**E.printStackTrace();**

**}**

**} else if (e.getSource() == add) {**

**setVisible(false);**

**new AddStudent();**

**} else if (e.getSource() == update) {**

**}else {**

**setVisible(false);**

**}**

**}**

**public static void main(String[] args) {**

**new StudentDetails();**

**}**

**}**

**Studentfeeform.java**

**package university.management.system;**

**import javax.swing.\*;**

**import java.awt.\*;**

**import java.awt.event.ActionEvent;**

**import java.awt.event.ActionListener;**

**import java.awt.event.ItemEvent;**

**import java.awt.event.ItemListener;**

**import java.sql.ResultSet;**

**public class StudentFeeForm extends JFrame implements ActionListener {**

**Choice CrollNumber;**

**JComboBox courseBox, departmentBox, semesterBox;**

**JLabel totalAmount;**

**JButton pay, update, back;**

**StudentFeeForm(){**

**getContentPane().setBackground(new Color(210,252,251));**

**ImageIcon i1 = new ImageIcon(ClassLoader.getSystemResource("icon/fee.png"));**

**Image i2 = i1.getImage().getScaledInstance(500,300,Image.SCALE\_DEFAULT);**

**ImageIcon i3 = new ImageIcon(i2);**

**JLabel img = new JLabel(i3);**

**img.setBounds(400,50,500,300);**

**add(img);**

**JLabel roolNumber = new JLabel("Select Roll Number");**

**roolNumber.setBounds(40,60,150,20);**

**roolNumber.setFont(new Font("Tahoma", Font.BOLD,12));**

**add(roolNumber);**

**CrollNumber = new Choice();**

**CrollNumber.setBounds(200,60,150,20);**

**add(CrollNumber);**

**try{**

**Conn c = new Conn();**

**ResultSet rs = c.statement.executeQuery("select \* from student");**

**while (rs.next()){**

**CrollNumber.add(rs.getString("rollno"));**

**}**

**}catch (Exception e){**

**e.printStackTrace();**

**}**

**JLabel name = new JLabel("Name");**

**name.setBounds(40,100,150,20);**

**add(name);**

**JLabel textName = new JLabel();**

**textName.setBounds(200,100,150,20);**

**add(textName);**

**JLabel fname = new JLabel("Father Name");**

**fname.setBounds(40,140,150,20);**

**add(fname);**

**JLabel textfName = new JLabel("aaaa");**

**textfName.setBounds(200,140,150,20);**

**add(textfName);**

**try {**

**Conn c = new Conn();**

**String query = "select \* from student where rollno='"+CrollNumber.getSelectedItem()+"'";**

**ResultSet rs = c.statement.executeQuery(query);**

**while(rs.next()) {**

**textName.setText(rs.getString("name"));**

**textfName.setText(rs.getString("fname"));**

**}**

**} catch (Exception e) {**

**e.printStackTrace();**

**}**

**CrollNumber.addItemListener(new ItemListener() {**

**public void itemStateChanged(ItemEvent ie) {**

**try {**

**Conn c = new Conn();**

**String query = "select \* from student where rollno='"+CrollNumber.getSelectedItem()+"'";**

**ResultSet rs = c.statement.executeQuery(query);**

**while(rs.next()) {**

**textName.setText(rs.getString("name"));**

**textfName.setText(rs.getString("fname"));**

**}**

**} catch (Exception e) {**

**e.printStackTrace();**

**}**

**}**

**});**

**JLabel Qualification = new JLabel("Course");**

**Qualification.setBounds(40,180,150,20);**

**//Qualification.setFont(new Font("Tahoma",Font.BOLD,16));**

**add(Qualification);**

**String course[] = {"BTech","BBA","BCA","BSC","MSC","MBA","MCA","MCom","MA","BA"};**

**courseBox = new JComboBox(course);**

**courseBox.setBounds(200,180,150,20);**

**courseBox.setBackground(Color.WHITE);**

**add(courseBox);**

**JLabel Department = new JLabel("Branch");**

**Department.setBounds(40,220,150,20);**

**// Department.setFont(new Font("serif",Font.BOLD,16));**

**add(Department);**

**String department[] = {"Computer Science","Electronics","Mechanical","Civil","IT"};**

**departmentBox = new JComboBox(department);**

**departmentBox.setBounds(200,220,150,20);**

**departmentBox.setBackground(Color.WHITE);**

**add(departmentBox);**

**JLabel textsemester = new JLabel("Semester");**

**textsemester.setBounds(40,260,150,20);**

**add(textsemester);**

**String semester[] = {"semester1", "semester2", "semester3","semester4","semester5", "semester6", "semester7","semester8"};**

**semesterBox = new JComboBox(semester);**

**semesterBox.setBounds(200,260,150,20);**

**add(semesterBox);**

**JLabel total = new JLabel("Total Payable");**

**total.setBounds(40,300,150,20);**

**add(total);**

**totalAmount = new JLabel("");**

**totalAmount.setBounds(200,300,150,20);**

**add(totalAmount);**

**update = new JButton("Update");**

**update.setBounds(30,380,100,25);**

**update.addActionListener(this);**

**add(update);**

**pay = new JButton("Pay");**

**pay.setBounds(150,380,100,25);**

**pay.addActionListener(this);**

**add(pay);**

**back = new JButton("Back");**

**back.setBounds(270,380,100,25);**

**back.addActionListener(this);**

**add(back);**

**setSize(900,500);**

**setLocation(300,100);**

**setLayout(null);**

**setVisible(true);**

**}**

**@Override**

**public void actionPerformed(ActionEvent e) {**

**if (e.getSource() == update){**

**String course = (String) courseBox.getSelectedItem();**

**String semester = (String) semesterBox.getSelectedItem();**

**try {**

**Conn c = new Conn();**

**ResultSet rs = c.statement.executeQuery("select \* from fee where course = '"+course+"'");**

**while(rs.next()) {**

**totalAmount.setText(rs.getString(semester));**

**}**

**} catch (Exception E) {**

**E.printStackTrace();**

**}**

**} else if ( e.getSource() == pay) {**

**String rollno = CrollNumber.getSelectedItem();**

**String course = (String) courseBox.getSelectedItem();**

**String semester = (String) semesterBox.getSelectedItem();**

**String branch = (String) departmentBox.getSelectedItem();**

**String total = totalAmount.getText();**

**try {**

**Conn c = new Conn();**

**String Q = "insert into feecollege values('"+rollno+"','"+course+"','"+branch+"','"+semester+"','"+total+"')";**

**c.statement.executeUpdate(Q);**

**JOptionPane.showMessageDialog(null , "fee Submitted successfully");**

**}catch (Exception E){**

**E.printStackTrace();**

**}**

**}else {**

**setVisible(false);**

**}**

**}**

**public static void main(String[] args) {**

**new StudentFeeForm();**

**}**

**}**

**Studentleave.java**

**package university.management.system;**

**import com.toedter.calendar.JDateChooser;**

**import javax.swing.\*;**

**import java.awt.\*;**

**import java.awt.event.ActionEvent;**

**import java.awt.event.ActionListener;**

**import java.sql.ResultSet;**

**public class StudentLeave extends JFrame implements ActionListener {**

**Choice choiceRollNo, choTime;**

**JDateChooser selDate;**

**JButton submit, cancel;**

**StudentLeave(){**

**getContentPane().setBackground(new Color(210,232,252));**

**JLabel heading = new JLabel("Apply Leave (Student)");**

**heading.setBounds(40,50,300,30);**

**heading.setFont(new Font("Tahoma", Font.BOLD,20));**

**add(heading);**

**JLabel RollNoSE = new JLabel("Search by Roll Number");**

**RollNoSE.setBounds(60,100,200,20);**

**RollNoSE.setFont(new Font("Tahoma", Font.PLAIN,18));**

**add(RollNoSE);**

**choiceRollNo = new Choice();**

**choiceRollNo.setBounds(60,130,200,20);**

**add(choiceRollNo);**

**try{**

**Conn c = new Conn();**

**ResultSet resultSet = c.statement.executeQuery("select \* from student");**

**while (resultSet.next()){**

**choiceRollNo.add(resultSet.getString("rollno"));**

**}**

**}catch (Exception e){**

**e.printStackTrace();**

**}**

**JLabel lbldate = new JLabel("Date");**

**lbldate.setBounds(60,180,200,20);**

**lbldate.setFont(new Font("Tahoma", Font.PLAIN,18));**

**add(lbldate);**

**selDate = new JDateChooser();**

**selDate.setBounds(60,210,200,25);**

**add(selDate);**

**JLabel time = new JLabel("Time Duration");**

**time.setBounds(60,260,200,20);**

**time.setFont(new Font("Tahoma", Font.PLAIN,18));**

**add(time);**

**choTime = new Choice();**

**choTime.setBounds(60,290,200,20);**

**choTime.add("Full Day");**

**choTime.add("Half Day");**

**add(choTime);**

**submit = new JButton("Submit");**

**submit.setBounds(60,350,100,25);**

**submit.setBackground(Color.black);**

**submit.setForeground(Color.white);**

**submit.addActionListener(this);**

**add(submit);**

**cancel = new JButton("Cancel");**

**cancel.setBounds(200,350,100,25);**

**cancel.setBackground(Color.black);**

**cancel.setForeground(Color.white);**

**cancel.addActionListener(this);**

**add(cancel);**

**setSize(500,550);**

**setLocation(550,100);**

**setLayout(null);**

**setVisible(true);**

**}**

**@Override**

**public void actionPerformed(ActionEvent e) {**

**if (e.getSource() == submit){**

**String rollno = choiceRollNo.getSelectedItem();**

**String date = ((JTextField) selDate.getDateEditor().getUiComponent()).getText();**

**String time = choTime.getSelectedItem();**

**String Q = "insert into studentLeave values('"+rollno+"','"+date+"','"+time+"')";**

**try {**

**Conn c = new Conn();**

**c.statement.executeUpdate(Q);**

**JOptionPane.showMessageDialog(null, "Leave Confirmed");**

**setVisible(false);**

**}catch (Exception E){**

**E.printStackTrace();**

**}**

**}else {**

**setVisible(false);**

**}**

**}**

**public static void main(String[] args) {**

**new StudentLeave();**

**}**

**}**

**Studentleavedetails.java**

**package university.management.system;**

**import net.proteanit.sql.DbUtils;**

**import javax.swing.\*;**

**import java.awt.\*;**

**import java.awt.event.ActionEvent;**

**import java.awt.event.ActionListener;**

**import java.sql.ResultSet;**

**public class StudentLeaveDetails extends JFrame implements ActionListener {**

**Choice choiceEmpID;**

**JTable table;**

**JButton search ,cancel,print;**

**StudentLeaveDetails(){**

**getContentPane().setBackground(new Color(250,172,206));**

**JLabel heading = new JLabel("Search by Roll Number");**

**heading.setBounds(20,20,150,20);**

**add(heading);**

**choiceEmpID = new Choice();**

**choiceEmpID.setBounds(180,20,150,20);**

**add(choiceEmpID);**

**try {**

**Conn c = new Conn();**

**ResultSet resultSet = c.statement.executeQuery("select \* from student");**

**while (resultSet.next()){**

**choiceEmpID.add(resultSet.getString("rollno"));**

**}**

**}catch (Exception e){**

**e.printStackTrace();**

**}**

**table = new JTable();**

**try{**

**Conn c = new Conn();**

**ResultSet resultSet = c.statement.executeQuery("select \* from studentleave");**

**table.setModel(DbUtils.resultSetToTableModel(resultSet));**

**}catch (Exception e){**

**e.printStackTrace();**

**}**

**JScrollPane scrollPane = new JScrollPane(table);**

**scrollPane.setBounds(0,100,900,600);**

**add(scrollPane);**

**search = new JButton("Search");**

**search.setBounds(20,70,80,20);**

**search.addActionListener(this);**

**add(search);**

**print = new JButton("Print");**

**print.setBounds(120,70,80,20);**

**print.addActionListener(this);**

**add(print);**

**cancel = new JButton("Cancel");**

**cancel.setBounds(220,70,80,20);**

**cancel.addActionListener(this);**

**add(cancel);**

**setSize(900,700);**

**setLocation(300,100);**

**setLayout(null);**

**setVisible(true);**

**}**

**@Override**

**public void actionPerformed(ActionEvent e) {**

**if (e.getSource() == search){**

**String q = "select \* from studentleave where rollno = '"+choiceEmpID.getSelectedItem()+"'";**

**try {**

**Conn c = new Conn();**

**ResultSet resultSet = c.statement.executeQuery(q);**

**table.setModel(DbUtils.resultSetToTableModel(resultSet));**

**}catch (Exception E){**

**E.printStackTrace();**

**}**

**}else if (e.getSource() == print){**

**try {**

**table.print();**

**}catch (Exception E){**

**E.printStackTrace();**

**}**

**}else {**

**setVisible(false);**

**}**

**}**

**public static void main(String[] args) {**

**new StudentLeaveDetails();**

**}**

**}**

**Teacherdetails.java**

**package university.management.system;**

**import net.proteanit.sql.DbUtils;**

**import javax.swing.\*;**

**import java.awt.\*;**

**import java.awt.event.ActionEvent;**

**import java.awt.event.ActionListener;**

**import java.sql.ResultSet;**

**import java.util.jar.JarFile;**

**public class TeacherDetails extends JFrame implements ActionListener {**

**Choice choice;**

**JTable table;**

**JButton search,print, update, add, cancel;**

**TeacherDetails(){**

**getContentPane().setBackground(new Color(192,164,252));**

**JLabel heading = new JLabel("Search by Employee ID");**

**heading.setBounds(20,20,150,20);**

**add(heading);**

**choice = new Choice();**

**choice.setBounds(180,20,150,20);**

**add(choice);**

**try {**

**Conn c = new Conn();**

**ResultSet resultSet = c.statement.executeQuery("select \* from teacher");**

**while (resultSet.next()){**

**choice.add(resultSet.getString("empId"));**

**}**

**}catch (Exception e){**

**e.printStackTrace();**

**}**

**table = new JTable();**

**try {**

**Conn c = new Conn();**

**ResultSet resultSet = c.statement.executeQuery("select \* from teacher");**

**table.setModel(DbUtils.resultSetToTableModel(resultSet));**

**}catch (Exception e){**

**e.printStackTrace();**

**}**

**JScrollPane js = new JScrollPane(table);**

**js.setBounds(0,100,900,600);**

**add(js);**

**search = new JButton("Search");**

**search.setBounds(20,70,80,20);**

**search.addActionListener(this);**

**add(search);**

**print = new JButton("Print");**

**print.setBounds(120,70,80,20);**

**print.addActionListener(this);**

**add(print);**

**add = new JButton("Add");**

**add.setBounds(220,70,80,20);**

**add.addActionListener(this);**

**add(add);**

**update = new JButton("Update");**

**update.setBounds(320,70,80,20);**

**update.addActionListener(this);**

**add(update);**

**cancel = new JButton("Cancel");**

**cancel.setBounds(420,70,80,20);**

**cancel.addActionListener(this);**

**add(cancel);**

**setLayout(null);**

**setSize(900,700);**

**setLocation(300,100);**

**setVisible(true);**

**}**

**@Override**

**public void actionPerformed(ActionEvent e) {**

**if (e.getSource() == search){**

**String q = "select \* from teacher where empId = '"+choice.getSelectedItem()+"'";**

**try {**

**Conn c = new Conn();**

**ResultSet resultSet = c.statement.executeQuery(q);**

**table.setModel(DbUtils.resultSetToTableModel(resultSet));**

**}catch (Exception E){**

**E.printStackTrace();**

**}**

**}else if (e.getSource() == print){**

**try {**

**table.print();**

**}catch (Exception E){**

**E.printStackTrace();**

**}**

**} else if (e.getSource() == add) {**

**setVisible(false);**

**new AddFaculty();**

**} else if (e.getSource() == update) {**

**}else {**

**setVisible(false);**

**}**

**}**

**public static void main(String[] args) {**

**new TeacherDetails();**

**}**

**}**

**Teacherleave.java**

**package university.management.system;**

**import com.toedter.calendar.JDateChooser;**

**import javax.swing.\*;**

**import java.awt.\*;**

**import java.awt.event.ActionEvent;**

**import java.awt.event.ActionListener;**

**import java.sql.ResultSet;**

**public class TeacherLeave extends JFrame implements ActionListener {**

**Choice choiceRollNo, choTime;**

**JDateChooser selDate;**

**JButton submit, cancel;**

**TeacherLeave(){**

**getContentPane().setBackground(new Color(210,232,252));**

**JLabel heading = new JLabel("Apply Leave (Teacher)");**

**heading.setBounds(40,50,300,30);**

**heading.setFont(new Font("Tahoma", Font.BOLD,20));**

**add(heading);**

**JLabel RollNoSE = new JLabel("Search by Employee ID");**

**RollNoSE.setBounds(60,100,200,20);**

**RollNoSE.setFont(new Font("Tahoma", Font.PLAIN,18));**

**add(RollNoSE);**

**choiceRollNo = new Choice();**

**choiceRollNo.setBounds(60,130,200,20);**

**add(choiceRollNo);**

**try{**

**Conn c = new Conn();**

**ResultSet resultSet = c.statement.executeQuery("select \* from teacher");**

**while (resultSet.next()){**

**choiceRollNo.add(resultSet.getString("empId"));**

**}**

**}catch (Exception e){**

**e.printStackTrace();**

**}**

**JLabel lbldate = new JLabel("Date");**

**lbldate.setBounds(60,180,200,20);**

**lbldate.setFont(new Font("Tahoma", Font.PLAIN,18));**

**add(lbldate);**

**selDate = new JDateChooser();**

**selDate.setBounds(60,210,200,25);**

**add(selDate);**

**JLabel time = new JLabel("Time Duration");**

**time.setBounds(60,260,200,20);**

**time.setFont(new Font("Tahoma", Font.PLAIN,18));**

**add(time);**

**choTime = new Choice();**

**choTime.setBounds(60,290,200,20);**

**choTime.add("Full Day");**

**choTime.add("Half Day");**

**add(choTime);**

**submit = new JButton("Submit");**

**submit.setBounds(60,350,100,25);**

**submit.setBackground(Color.black);**

**submit.setForeground(Color.white);**

**submit.addActionListener(this);**

**add(submit);**

**cancel = new JButton("Cancel");**

**cancel.setBounds(200,350,100,25);**

**cancel.setBackground(Color.black);**

**cancel.setForeground(Color.white);**

**cancel.addActionListener(this);**

**add(cancel);**

**setSize(500,550);**

**setLocation(550,100);**

**setLayout(null);**

**setVisible(true);**

**}**

**@Override**

**public void actionPerformed(ActionEvent e) {**

**if (e.getSource() == submit){**

**String rollno = choiceRollNo.getSelectedItem();**

**String date = ((JTextField) selDate.getDateEditor().getUiComponent()).getText();**

**String time = choTime.getSelectedItem();**

**String Q = "insert into teacherleave values('"+rollno+"','"+date+"','"+time+"')";**

**try {**

**Conn c = new Conn();**

**c.statement.executeUpdate(Q);**

**JOptionPane.showMessageDialog(null, "Leave Confirmed");**

**setVisible(false);**

**}catch (Exception E){**

**E.printStackTrace();**

**}**

**}else {**

**setVisible(false);**

**}**

**}**

**public static void main(String[] args) {**

**new TeacherLeave();**

**}**

**}**

**Teacherleave.java**

**package university.management.system;**

**import net.proteanit.sql.DbUtils;**

**import javax.swing.\*;**

**import java.awt.\*;**

**import java.awt.event.ActionEvent;**

**import java.awt.event.ActionListener;**

**import java.sql.ResultSet;**

**public class TeacherLeaveDetails extends JFrame implements ActionListener {**

**Choice choiceEmpID;**

**JTable table;**

**JButton search ,cancel,print;**

**TeacherLeaveDetails(){**

**getContentPane().setBackground(new Color(250,172,206));**

**JLabel heading = new JLabel("Search by Employee Id");**

**heading.setBounds(20,20,150,20);**

**add(heading);**

**choiceEmpID = new Choice();**

**choiceEmpID.setBounds(180,20,150,20);**

**add(choiceEmpID);**

**try {**

**Conn c = new Conn();**

**ResultSet resultSet = c.statement.executeQuery("select \* from teacher");**

**while (resultSet.next()){**

**choiceEmpID.add(resultSet.getString("empId"));**

**}**

**}catch (Exception e){**

**e.printStackTrace();**

**}**

**table = new JTable();**

**try{**

**Conn c = new Conn();**

**ResultSet resultSet = c.statement.executeQuery("select \* from teacherleave");**

**table.setModel(DbUtils.resultSetToTableModel(resultSet));**

**}catch (Exception e){**

**e.printStackTrace();**

**}**

**JScrollPane scrollPane = new JScrollPane(table);**

**scrollPane.setBounds(0,100,900,600);**

**add(scrollPane);**

**search = new JButton("Search");**

**search.setBounds(20,70,80,20);**

**search.addActionListener(this);**

**add(search);**

**print = new JButton("Print");**

**print.setBounds(120,70,80,20);**

**print.addActionListener(this);**

**add(print);**

**cancel = new JButton("Cancel");**

**cancel.setBounds(220,70,80,20);**

**cancel.addActionListener(this);**

**add(cancel);**

**setSize(900,700);**

**setLocation(300,100);**

**setLayout(null);**

**setVisible(true);**

**}**

**@Override**

**public void actionPerformed(ActionEvent e) {**

**if (e.getSource() == search){**

**String q = "select \* from teacherleave where empId = '"+choiceEmpID.getSelectedItem()+"'";**

**try {**

**Conn c = new Conn();**

**ResultSet resultSet = c.statement.executeQuery(q);**

**table.setModel(DbUtils.resultSetToTableModel(resultSet));**

**}catch (Exception E){**

**E.printStackTrace();**

**}**

**}else if (e.getSource() == print){**

**try {**

**table.print();**

**}catch (Exception E){**

**E.printStackTrace();**

**}**

**}else {**

**setVisible(false);**

**}**

**}**

**public static void main(String[] args) {**

**new TeacherLeaveDetails();**

**}**

**}**

**Updatestudent.java**

**package university.management.system;**

**import javax.swing.\*;**

**import java.awt.\*;**

**import java.awt.event.ActionEvent;**

**import java.awt.event.ActionListener;**

**import java.awt.event.ItemEvent;**

**import java.awt.event.ItemListener;**

**import java.sql.ResultSet;**

**public class updateStudent extends JFrame implements ActionListener {**

**JTextField textAddress,textPhone,textemail,textAadhar,textcourse,textbranch;**

**JLabel empText;**

**JButton submit, cancel;**

**Choice cEMPID;**

**updateStudent(){**

**getContentPane().setBackground(new Color(230,210,252));**

**JLabel heading = new JLabel("Update Student Details");**

**heading.setBounds(50,10,500,50);**

**heading.setFont(new Font("serif",Font.BOLD,35));**

**add(heading);**

**JLabel empID = new JLabel("select Roll Number ");**

**empID.setBounds(50,100,200,20);**

**empID.setFont(new Font("serif", Font.PLAIN,20));**

**add(empID);**

**cEMPID = new Choice();**

**cEMPID.setBounds(250,100,200,20);**

**add(cEMPID);**

**try{**

**Conn c = new Conn();**

**ResultSet rs = c.statement.executeQuery("select \* from student");**

**while (rs.next()){**

**cEMPID.add(rs.getString("rollno"));**

**}**

**}catch (Exception e){**

**e.printStackTrace();**

**}**

**JLabel name = new JLabel("Name");**

**name.setBounds(50,150,100,30);**

**name.setFont(new Font("serif",Font.BOLD,20));**

**add(name);**

**JLabel textName = new JLabel();**

**textName.setBounds(200,150,150,30);**

**add(textName);**

**JLabel fname = new JLabel("Father Name");**

**fname.setBounds(400,150,200,30);**

**fname.setFont(new Font("serif",Font.BOLD,20));**

**add(fname);**

**JLabel textfather = new JLabel();**

**textfather.setBounds(600,150,150,30);**

**add(textfather);**

**JLabel EMPIDD = new JLabel("Roll Number");**

**EMPIDD.setBounds(50,200,200,30);**

**EMPIDD.setFont(new Font("serif",Font.BOLD,20));**

**add(EMPIDD);**

**empText = new JLabel();**

**empText.setBounds(200,200,150,30);**

**empText.setFont(new Font("serif",Font.BOLD,20));**

**add(empText);**

**JLabel dob = new JLabel("Date of Birth");**

**dob.setBounds(400,200,200,30);**

**dob.setFont(new Font("serif",Font.BOLD,20));**

**add(dob);**

**JLabel dobdob = new JLabel();**

**dobdob.setBounds(600,200,150,30);**

**add(dobdob);**

**JLabel address = new JLabel("Address");**

**address.setBounds(50,250,200,30);**

**address.setFont(new Font("serif",Font.BOLD,20));**

**add(address);**

**textAddress = new JTextField();**

**textAddress.setBounds(200,250,150,30);**

**add(textAddress);**

**JLabel phone = new JLabel("Phone");**

**phone.setBounds(400,250,200,30);**

**phone.setFont(new Font("serif",Font.BOLD,20));**

**add(phone);**

**textPhone = new JTextField();**

**textPhone.setBounds(600,250,150,30);**

**add(textPhone);**

**JLabel email = new JLabel("Email");**

**email.setBounds(50,300,200,30);**

**email.setFont(new Font("serif",Font.BOLD,20));**

**add(email);**

**textemail = new JTextField();**

**textemail.setBounds(200,300,150,30);**

**add(textemail);**

**JLabel M10 = new JLabel("Class X (%)");**

**M10.setBounds(400,300,200,30);**

**M10.setFont(new Font("serif",Font.BOLD,20));**

**add(M10);**

**JLabel textM10 = new JLabel();**

**textM10.setBounds(600,300,150,30);**

**add(textM10);**

**JLabel M12 = new JLabel("Class XII (%)");**

**M12.setBounds(50,350,200,30);**

**M12.setFont(new Font("serif",Font.BOLD,20));**

**add(M12);**

**JLabel textM12 = new JLabel();**

**textM12.setBounds(200,350,150,30);**

**add(textM12);**

**JLabel AadharNo = new JLabel("Aadhar Number");**

**AadharNo.setBounds(400,350,200,30);**

**AadharNo.setFont(new Font("serif",Font.BOLD,20));**

**add(AadharNo);**

**textAadhar = new JTextField();**

**textAadhar.setBounds(600,350,150,30);**

**add(textAadhar);**

**JLabel Qualification = new JLabel("Cource");**

**Qualification.setBounds(50,400,200,30);**

**Qualification.setFont(new Font("serif",Font.BOLD,20));**

**add(Qualification);**

**textcourse = new JTextField();**

**textcourse.setBounds(200,400,150,30);**

**add(textcourse);**

**JLabel Department = new JLabel("Branch");**

**Department.setBounds(400,400,200,30);**

**Department.setFont(new Font("serif",Font.BOLD,20));**

**add(Department);**

**textbranch = new JTextField();**

**textbranch.setBounds(600,400,150,30);**

**add(textbranch);**

**try{**

**Conn c = new Conn();**

**String query = "select \* from student where rollno = '"+cEMPID.getSelectedItem()+"'";**

**ResultSet resultSet = c.statement.executeQuery(query);**

**while (resultSet.next()){**

**textName.setText(resultSet.getString("name"));**

**textfather.setText(resultSet.getString("fname"));**

**dobdob.setText(resultSet.getString("dob"));**

**textAddress.setText(resultSet.getString("address"));**

**textPhone.setText(resultSet.getString("phone"));**

**textemail.setText(resultSet.getString("email"));**

**textM10.setText(resultSet.getString("class\_x"));**

**textM12.setText(resultSet.getString("class\_xii"));**

**textAadhar.setText(resultSet.getString("aadhar"));**

**empText.setText(resultSet.getString("rollno"));**

**textcourse.setText(resultSet.getString("course"));**

**textbranch.setText(resultSet.getString("branch"));**

**}**

**}catch (Exception E){**

**E.printStackTrace();**

**}**

**cEMPID.addItemListener(new ItemListener() {**

**@Override**

**public void itemStateChanged(ItemEvent e) {**

**try {**

**Conn c = new Conn();**

**String query = "select \* from student where rollno = '"+cEMPID.getSelectedItem()+"'";**

**ResultSet resultSet = c.statement.executeQuery(query);**

**while (resultSet.next()) {**

**textName.setText(resultSet.getString("name"));**

**textfather.setText(resultSet.getString("fname"));**

**dobdob.setText(resultSet.getString("dob"));**

**textAddress.setText(resultSet.getString("address"));**

**textPhone.setText(resultSet.getString("phone"));**

**textemail.setText(resultSet.getString("email"));**

**textM10.setText(resultSet.getString("class\_x"));**

**textM12.setText(resultSet.getString("class\_xii"));**

**textAadhar.setText(resultSet.getString("aadhar"));**

**empText.setText(resultSet.getString("rollno"));**

**textcourse.setText(resultSet.getString("course"));**

**textbranch.setText(resultSet.getString("branch"));**

**}**

**}catch (Exception E){**

**E.printStackTrace();**

**}**

**}**

**});**

**submit = new JButton("Update");**

**submit.setBounds(250,550,120,30);**

**submit.setBackground(Color.black);**

**submit.setForeground(Color.white);**

**submit.addActionListener(this);**

**add(submit);**

**cancel = new JButton("Cancel");**

**cancel.setBounds(450,550,120,30);**

**cancel.setBackground(Color.black);**

**cancel.setForeground(Color.white);**

**cancel.addActionListener(this);**

**add(cancel);**

**setSize(900,700);**

**setLocation(350,50);**

**setLayout(null);**

**setVisible(true);**

**}**

**@Override**

**public void actionPerformed(ActionEvent e) {**

**if (e.getSource() == submit){**

**String empid = empText.getText();**

**String address = textAddress.getText();**

**String phone = textPhone.getText();**

**String email = textemail.getText();**

**String course = textcourse.getText();**

**String branch = textbranch.getText();**

**try {**

**String Q = "update student set address = '"+address+"', phone = '"+phone+"', email = '"+email+"', course = '"+course+"', branch = '"+branch+"' where rollno = '"+empid+"'";**

**Conn c = new Conn();**

**c.statement.executeUpdate(Q);**

**JOptionPane.showMessageDialog(null, "Details Updated");**

**setVisible(false);**

**}catch (Exception E){**

**E.printStackTrace();**

**}**

**}else {**

**setVisible(false);**

**}**

**}**

**public static void main(String[] args) {**

**new updateStudent();**

**}**

**}**

**Updateteacher.java**

**package university.management.system;**

**import com.toedter.calendar.JDateChooser;**

**import javax.swing.\*;**

**import java.awt.\*;**

**import java.awt.event.ActionEvent;**

**import java.awt.event.ActionListener;**

**import java.awt.event.ItemEvent;**

**import java.awt.event.ItemListener;**

**import java.sql.ResultSet;**

**public class UpdateTeacher extends JFrame implements ActionListener {**

**JTextField textAddress,textPhone,textemail,textAadhar,textcourse,textbranch;**

**JLabel empText;**

**JButton submit, cancel;**

**Choice cEMPID;**

**UpdateTeacher(){**

**getContentPane().setBackground(new Color(230,210,252));**

**JLabel heading = new JLabel("Update Teacher Details");**

**heading.setBounds(50,10,500,50);**

**heading.setFont(new Font("serif",Font.BOLD,35));**

**add(heading);**

**JLabel empID = new JLabel("select Employee Id");**

**empID.setBounds(50,100,200,20);**

**empID.setFont(new Font("serif", Font.PLAIN,20));**

**add(empID);**

**cEMPID = new Choice();**

**cEMPID.setBounds(250,100,200,20);**

**add(cEMPID);**

**try{**

**Conn c = new Conn();**

**ResultSet rs = c.statement.executeQuery("select \* from teacher");**

**while (rs.next()){**

**cEMPID.add(rs.getString("empId"));**

**}**

**}catch (Exception e){**

**e.printStackTrace();**

**}**

**JLabel name = new JLabel("Name");**

**name.setBounds(50,150,100,30);**

**name.setFont(new Font("serif",Font.BOLD,20));**

**add(name);**

**JLabel textName = new JLabel();**

**textName.setBounds(200,150,150,30);**

**add(textName);**

**JLabel fname = new JLabel("Father Name");**

**fname.setBounds(400,150,200,30);**

**fname.setFont(new Font("serif",Font.BOLD,20));**

**add(fname);**

**JLabel textfather = new JLabel();**

**textfather.setBounds(600,150,150,30);**

**add(textfather);**

**JLabel EMPIDD = new JLabel("Employee ID");**

**EMPIDD.setBounds(50,200,200,30);**

**EMPIDD.setFont(new Font("serif",Font.BOLD,20));**

**add(EMPIDD);**

**empText = new JLabel();**

**empText.setBounds(200,200,150,30);**

**empText.setFont(new Font("serif",Font.BOLD,20));**

**add(empText);**

**JLabel dob = new JLabel("Date of Birth");**

**dob.setBounds(400,200,200,30);**

**dob.setFont(new Font("serif",Font.BOLD,20));**

**add(dob);**

**JLabel dobdob = new JLabel();**

**dobdob.setBounds(600,200,150,30);**

**add(dobdob);**

**JLabel address = new JLabel("Address");**

**address.setBounds(50,250,200,30);**

**address.setFont(new Font("serif",Font.BOLD,20));**

**add(address);**

**textAddress = new JTextField();**

**textAddress.setBounds(200,250,150,30);**

**add(textAddress);**

**JLabel phone = new JLabel("Phone");**

**phone.setBounds(400,250,200,30);**

**phone.setFont(new Font("serif",Font.BOLD,20));**

**add(phone);**

**textPhone = new JTextField();**

**textPhone.setBounds(600,250,150,30);**

**add(textPhone);**

**JLabel email = new JLabel("Email");**

**email.setBounds(50,300,200,30);**

**email.setFont(new Font("serif",Font.BOLD,20));**

**add(email);**

**textemail = new JTextField();**

**textemail.setBounds(200,300,150,30);**

**add(textemail);**

**JLabel M10 = new JLabel("Class X (%)");**

**M10.setBounds(400,300,200,30);**

**M10.setFont(new Font("serif",Font.BOLD,20));**

**add(M10);**

**JLabel textM10 = new JLabel();**

**textM10.setBounds(600,300,150,30);**

**add(textM10);**

**JLabel M12 = new JLabel("Class XII (%)");**

**M12.setBounds(50,350,200,30);**

**M12.setFont(new Font("serif",Font.BOLD,20));**

**add(M12);**

**JLabel textM12 = new JLabel();**

**textM12.setBounds(200,350,150,30);**

**add(textM12);**

**JLabel AadharNo = new JLabel("Aadhar Number");**

**AadharNo.setBounds(400,350,200,30);**

**AadharNo.setFont(new Font("serif",Font.BOLD,20));**

**add(AadharNo);**

**textAadhar = new JTextField();**

**textAadhar.setBounds(600,350,150,30);**

**add(textAadhar);**

**JLabel Qualification = new JLabel("Qualification");**

**Qualification.setBounds(50,400,200,30);**

**Qualification.setFont(new Font("serif",Font.BOLD,20));**

**add(Qualification);**

**textcourse = new JTextField();**

**textcourse.setBounds(200,400,150,30);**

**add(textcourse);**

**JLabel Department = new JLabel("Department");**

**Department.setBounds(400,400,200,30);**

**Department.setFont(new Font("serif",Font.BOLD,20));**

**add(Department);**

**textbranch = new JTextField();**

**textbranch.setBounds(600,400,150,30);**

**add(textbranch);**

**try{**

**Conn c = new Conn();**

**String query = "select \* from teacher where empId = '"+cEMPID.getSelectedItem()+"'";**

**ResultSet resultSet = c.statement.executeQuery(query);**

**while (resultSet.next()){**

**textName.setText(resultSet.getString("name"));**

**textfather.setText(resultSet.getString("fname"));**

**dobdob.setText(resultSet.getString("dob"));**

**textAddress.setText(resultSet.getString("address"));**

**textPhone.setText(resultSet.getString("phone"));**

**textemail.setText(resultSet.getString("email"));**

**textM10.setText(resultSet.getString("class\_x"));**

**textM12.setText(resultSet.getString("class\_xii"));**

**textAadhar.setText(resultSet.getString("aadhar"));**

**empText.setText(resultSet.getString("empId"));**

**textcourse.setText(resultSet.getString("education"));**

**textbranch.setText(resultSet.getString("department"));**

**}**

**}catch (Exception E){**

**E.printStackTrace();**

**}**

**cEMPID.addItemListener(new ItemListener() {**

**@Override**

**public void itemStateChanged(ItemEvent e) {**

**try {**

**Conn c = new Conn();**

**String query = "select \* from teacher where empId = '"+cEMPID.getSelectedItem()+"'";**

**ResultSet resultSet = c.statement.executeQuery(query);**

**while (resultSet.next()) {**

**textName.setText(resultSet.getString("name"));**

**textfather.setText(resultSet.getString("fname"));**

**dobdob.setText(resultSet.getString("dob"));**

**textAddress.setText(resultSet.getString("address"));**

**textPhone.setText(resultSet.getString("phone"));**

**textemail.setText(resultSet.getString("email"));**

**textM10.setText(resultSet.getString("class\_x"));**

**textM12.setText(resultSet.getString("class\_xii"));**

**textAadhar.setText(resultSet.getString("aadhar"));**

**empText.setText(resultSet.getString("empId"));**

**textcourse.setText(resultSet.getString("education"));**

**textbranch.setText(resultSet.getString("department"));**

**}**

**}catch (Exception E){**

**E.printStackTrace();**

**}**

**}**

**});**

**submit = new JButton("Update");**

**submit.setBounds(250,550,120,30);**

**submit.setBackground(Color.black);**

**submit.setForeground(Color.white);**

**submit.addActionListener(this);**

**add(submit);**

**cancel = new JButton("Cancel");**

**cancel.setBounds(450,550,120,30);**

**cancel.setBackground(Color.black);**

**cancel.setForeground(Color.white);**

**cancel.addActionListener(this);**

**add(cancel);**

**setSize(900,700);**

**setLocation(350,50);**

**setLayout(null);**

**setVisible(true);**

**}**

**@Override**

**public void actionPerformed(ActionEvent e) {**

**if (e.getSource() == submit){**

**String empid = empText.getText();**

**String address = textAddress.getText();**

**String phone = textPhone.getText();**

**String email = textemail.getText();**

**String course = textcourse.getText();**

**String branch = textbranch.getText();**

**try {**

**String Q = "update teacher set address = '"+address+"', phone = '"+phone+"', email = '"+email+"', education = '"+course+"', department = '"+branch+"' where empId = '"+empid+"'";**

**Conn c = new Conn();**

**c.statement.executeUpdate(Q);**

**JOptionPane.showMessageDialog(null, "Details Updated");**

**setVisible(false);**

**}catch (Exception E){**

**E.printStackTrace();**

**}**

**}else {**

**setVisible(false);**

**}**

**}**

**public static void main(String[] args) {**

**new UpdateTeacher();**

**}**

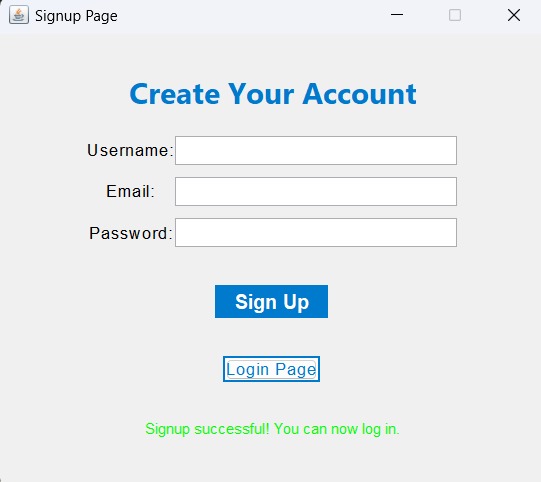
**}**

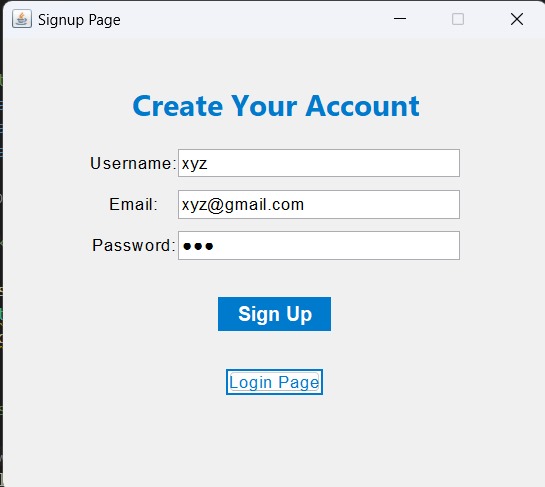
**DB code MySQL**

**CHAPTER 5**

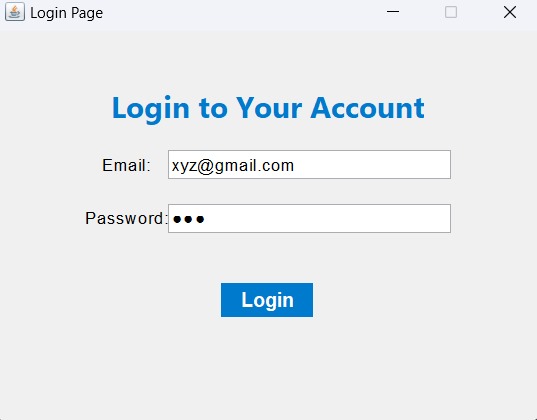
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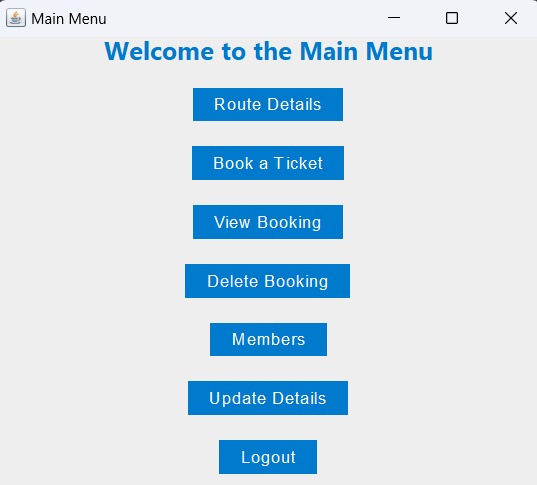
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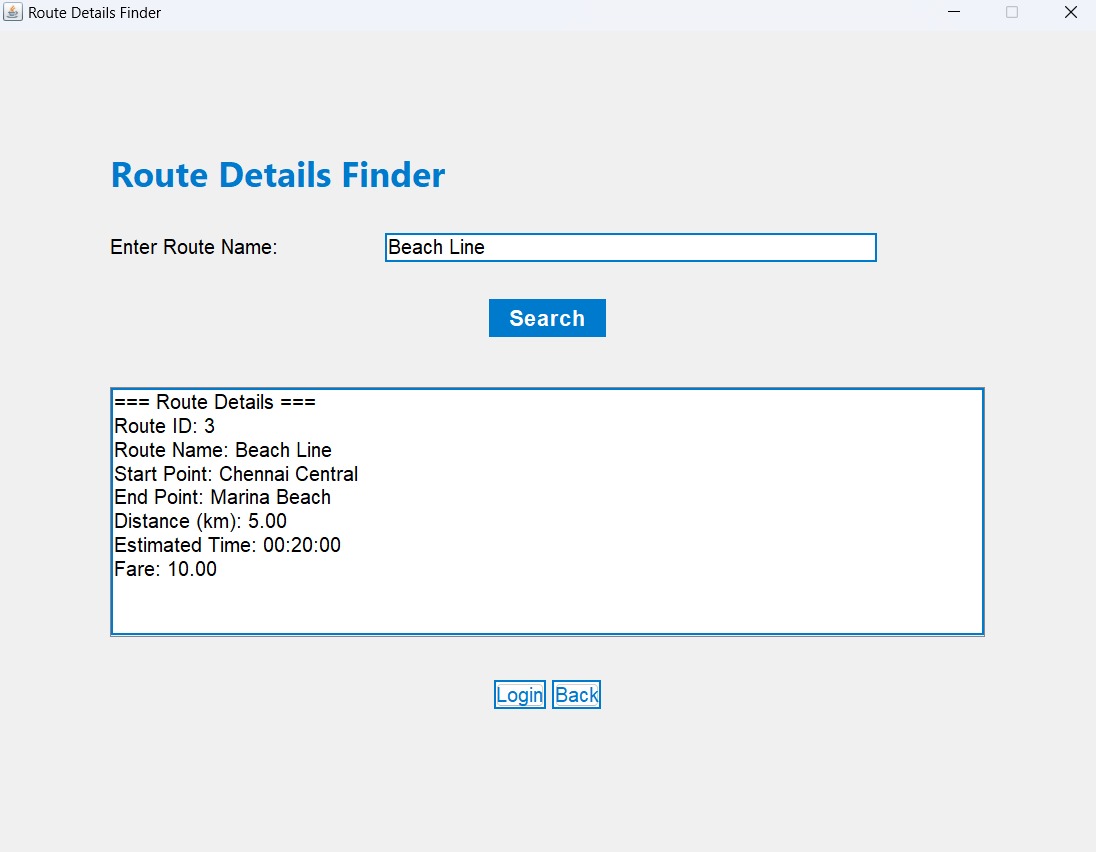


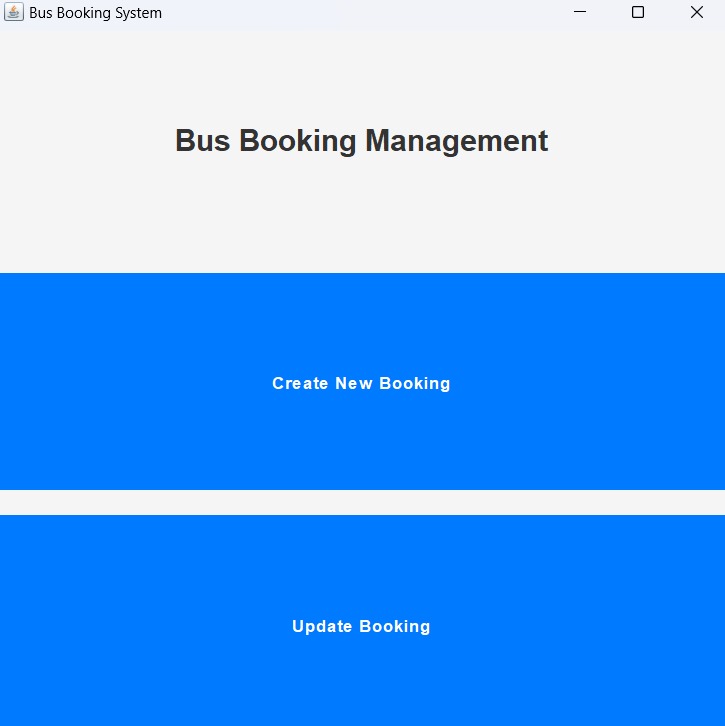
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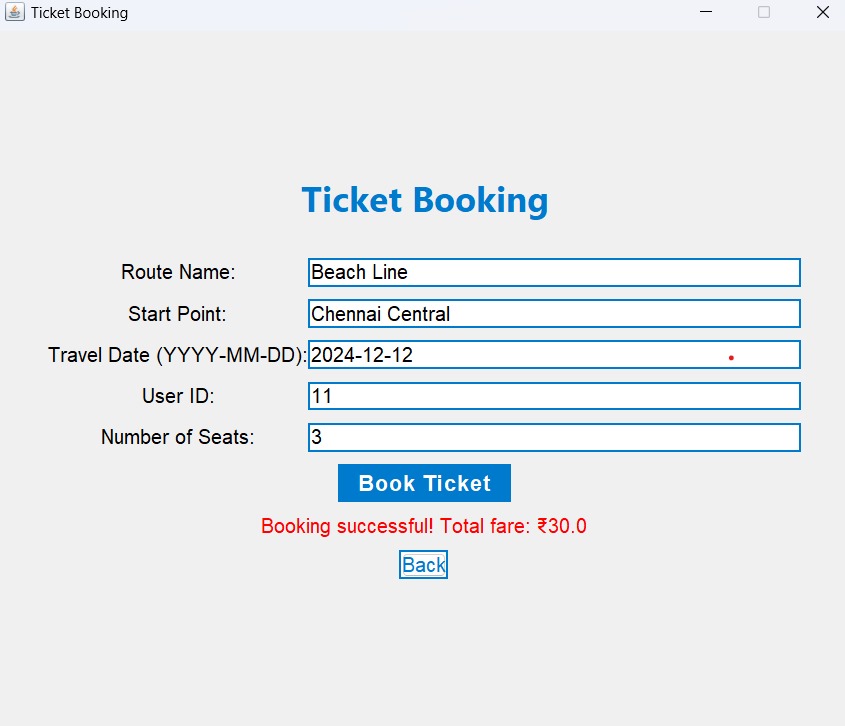


**DASHBOARD:**

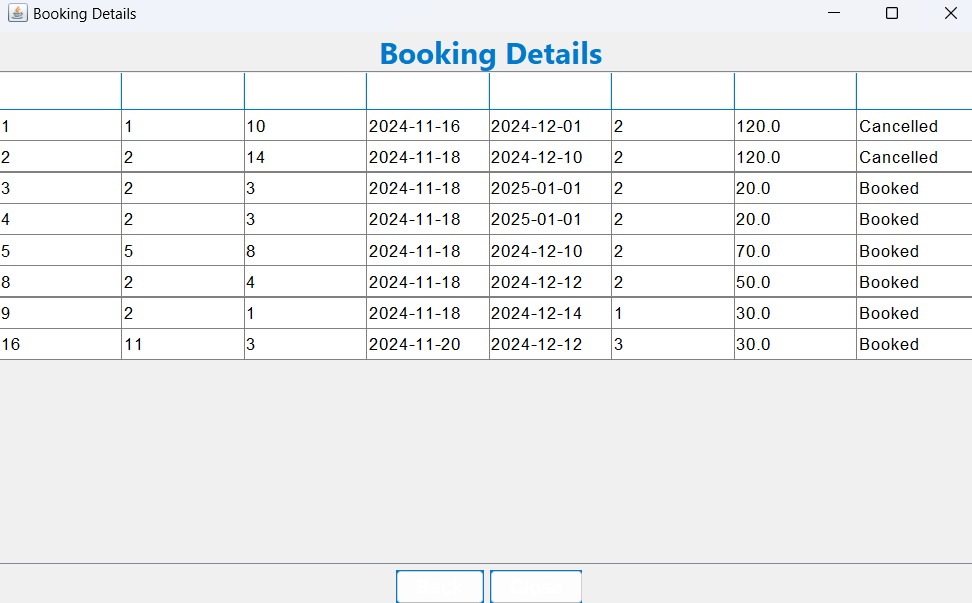
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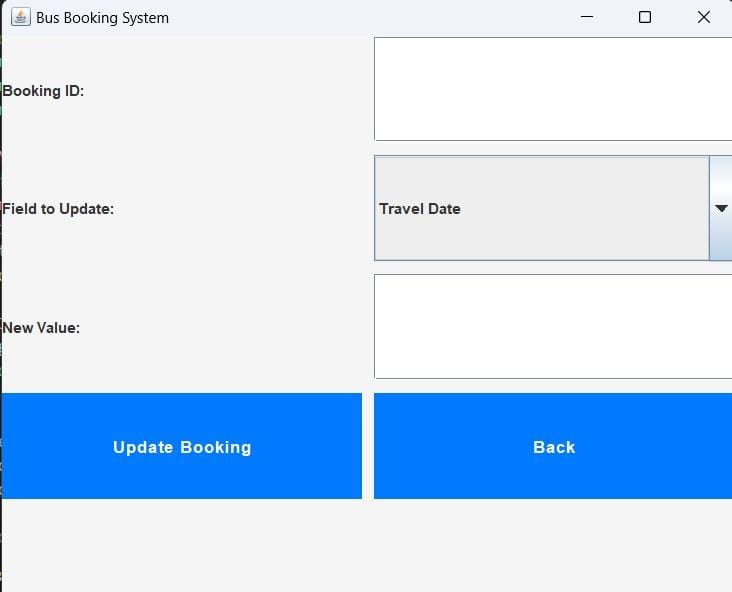
**BOOKING PAGE:**

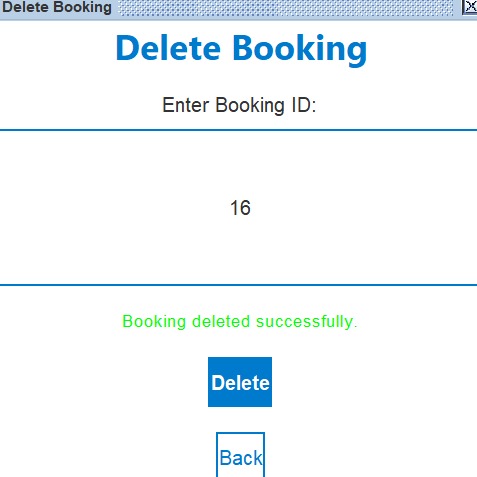
**TICKET BOOKING:**

**BOOKING DETAILS:**

****

**UPDATE BOOKING:**

****

****

**–**

**CHAPTER 6**

**6.1 Unit Testing**

**Unit testing is a testing technique in which individual modules of the University Management System are tested separately. Small units of the system, such as login functionality, student registration, or course enrollment modules, are tested to ensure they perform as expected. Each module is verified during its development to ensure it meets the design specifications.**

**6.2 Integration Testing**

**Integration testing is the technique in which individual components or modules of the University Management System, such as student registration, faculty management, and course allocation, are combined and tested together. This occurs after unit testing. The goal is to check how well the integrated modules communicate and work with one another.**

**6.3 System Testing**

**System testing is conducted on the entire University Management System to verify that it meets all functional and non-functional requirements. The software is installed in a simulated or live university environment, and the entire workflow is tested, from user registration to academic record management. Any issues or bugs discovered during this process are identified and resolved.**

**6.4 Acceptance Testing**

**User Acceptance Testing (UAT) is performed by university stakeholders, such as administrators, faculty, and students, to ensure that the system meets the agreed-upon requirements. This testing is conducted in the final phase before deploying the system to the university's production environment. It ensures the system is ready for real-world use.**

**CHAPTER 7**

**7.1.CONCLUSION**

**After completing this project, we are confident that the issues in the existing manual system will be resolved. The "University Management System" has been computerized to minimize human errors and enhance overall efficiency. The primary goal of this project is to streamline university operations and reduce manual workload.**

**The system ensures efficient record management by storing all data in a centralized database, allowing for quick and accurate data retrieval. Navigation controls are provided throughout the interface to manage and access large volumes of records seamlessly. Users can quickly search for specific data using a search string, retrieving results instantly. Updating records is simplified, enabling users to modify fields and update the database with ease.**

**Each user, including students, faculty, and administrators, is assigned a unique username or email ID for secure and accurate access to their profiles. This ensures that course registrations, academic records, and other data are managed without errors. The main objective of the project is to deliver an efficient, user-friendly system that simplifies university management tasks and ensures accurate data handling for all stakeholders.**

**CHAPTER 8**

**RESEARCH AND REFERENCE**

* [**https://developer.ibm.com/languages/java/articles/**](https://developer.ibm.com/languages/java/articles/)
* [**https://dzone.com/java**](https://dzone.com/java)
* [**https://www.w3schools.com/java/**](https://www.w3schools.com/java/)
* [**https://www.geeksforgeeks.org/introduction-to-jdbc/**](https://www.geeksforgeeks.org/introduction-to-jdbc/)
* [**https://github.com/Mahesh123/University-Management-System**](https://github.com/Mahesh123/University-Management-System)

**GITHUB LINKS**

* [**https://github.com/JohnDoe/University-Management-System.git**](https://github.com/JohnDoe/University-Management-System.git)
* [**https://github.com/ExampleUser/University-Management-System.git**](https://github.com/ExampleUser/University-Management-System.git)
* [**https://github.com/TeamABC/University-Management.git**](https://github.com/TeamABC/University-Management.git)
* [**https://github.com/OpenSourceOrg/University-System.git**](https://github.com/OpenSourceOrg/University-System.git)