**Group: 02**

**University Management System**

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Code with Output:

To run this project run “splash.java” in any IDE.

1)This code connects MySQL database to this java program.

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| **package** ums;  **import** **java.sql.\***;  **public** **class** **Connect** {  Connection c;  Statement s;  **public** **Connect**() {  **try**{  Class.forName("com.mysql.jdbc.Driver");  c = DriverManager.getConnection("jdbc:mysql:///university\_management","root","1618033abc");  s = c.createStatement();  }  **catch**(ClassNotFoundException | SQLException e) {  System.out.println(e);  }  }  } |

2) This code executes this program’s main screen.

Diagram

Description automatically generated

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| **package** ums;  **import** **java.awt.\***;  **import** **javax.swing.\***;  **import** **java.awt.event.\***;  **public** **class** **Splash** **implements** ActionListener {  JFrame f;  JLabel id1,id2;  JButton b1,b2,b3;  **public** **Splash**() {  f = **new** JFrame("University Management System");  f.setBackground(Color.white);  f.setLayout(**null**);  f.setSize(**640**,**360**);  f.setLocationRelativeTo(**null**);  f.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);  id1=**new** JLabel();  id1.setBounds(**0**,**0**,**640**,**360**);  id1.setLayout(**null**);  ImageIcon img = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/uni.jpg"));  Image i3 = img.getImage().getScaledInstance(**640**, **360**,Image.SCALE\_DEFAULT);  ImageIcon icc3 = **new** ImageIcon(i3);  id1.setIcon(icc3);  id2 = **new** JLabel("Who are You?");  id2.setBounds(**100**,**50**,**600**,**50**);  id2.setFont(**new** Font("opensans",Font.BOLD,**65**));  id2.setForeground(Color.black);  id1.add(id2);  f.add(id1);    b1 = **new** JButton("Admin");  b1.setBackground(**new** Color(**59**, **89**, **182**));  b1.setBounds(**100**,**200**,**120**,**50**);  b1.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(b1);  b2=**new** JButton("Faculty");  b2.setBackground(**new** Color(**59**, **89**, **182**));  b2.setBounds(**240**,**200**,**120**,**50**);  b2.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(b2);    b3=**new** JButton("Student");  b3.setBackground(**new** Color(**59**, **89**, **182**));  b3.setBounds(**390**,**200**,**120**,**50**);  b3.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(b3);      b1.addActionListener(**this**);  b2.addActionListener(**this**);  b3.addActionListener(**this**);        }  **public** **void** **actionPerformed**(ActionEvent ae){    **if**(ae.getSource() == b1) {    **try** {  **new** **Login**().setVisible(**true**);  f.setVisible(**false**);  }  **catch**(HeadlessException e) {  e.printStackTrace();  }  }  **else** **if**(ae.getSource() == b2) {  **try** {  **new** **TeacherLogin**().setVisible(**true**);  f.setVisible(**false**);  }  **catch**(HeadlessException e) {  e.printStackTrace();  }  }  **else** **if**(ae.getSource() == b3) {  **try** {  **new** **StudentLogin**().setVisible(**true**);  f.setVisible(**false**);  }  **catch**(HeadlessException e) {  e.printStackTrace();  }  }  }    **public** **static** **void** **main**(String[] arg){  **new** **Splash**().f.setVisible(**true**);  }  } |

3) Admin Login Frame

Graphical user interface, application

Description automatically generated

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| **package** ums;  **import** **java.awt.\***;  **import** **javax.swing.\***;  **import** **java.awt.event.\***;  **import** **java.sql.\***;  **@SuppressWarnings**("serial")  **public** **class** **Login** **extends** JFrame **implements** ActionListener {  JLabel l1,l2;  JTextField t1;  JPasswordField t2;  JButton b1,b2;  Login(){  **super**("Admin Login");  setBackground(Color.white);  setLayout(**null**);  l1 = **new** JLabel("Username:");  l1.setBounds(**170**,**140**,**100**,**30**);  l1.setFont(**new** Font("opensans",Font.BOLD,**15**));  add(l1);    l2 = **new** JLabel("Password:");  l2.setBounds(**170**,**190**,**100**,**30**);  l2.setFont(**new** Font("opensans",Font.BOLD,**15**));  add(l2);    t1=**new** JTextField();  t1.setBounds(**260**,**140**,**150**,**30**);  add(t1);  t2=**new** JPasswordField();  t2.setBounds(**260**,**190**,**150**,**30**);  add(t2);    ImageIcon i1 = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/login.jpg"));  Image i2 = i1.getImage().getScaledInstance(**100**,**100**,Image.SCALE\_DEFAULT);  ImageIcon i3 = **new** ImageIcon(i2);  JLabel l3 = **new** JLabel(i3);  l3.setBounds(**270**,**20**,**100**,**100**);  add(l3);  b1 = **new** JButton("Login");  b1.setBounds(**190**,**250**,**120**,**30**);  b1.setFont(**new** Font("opensans",Font.BOLD,**15**));  b1.addActionListener(**this**);  b1.setBackground(**new** Color(**59**, **89**, **182**));  add(b1);  b2=**new** JButton("Exit");  b2.setBounds(**320**,**250**,**120**,**30**);  b2.setFont(**new** Font("opensans",Font.BOLD,**15**));  b2.addActionListener(**this**);  b2.setBackground(**new** Color(**59**, **89**, **182**));  add(b2);  setVisible(**true**);  setSize(**640**,**360**);  setLocationRelativeTo(**null**);  setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);  }  **public** **void** **actionPerformed**(ActionEvent ae){    **if**(ae.getSource() == b1) {    **try** {  Connect c1 = **new** Connect();  String u = t1.getText();  **@SuppressWarnings**("deprecation")  String v = t2.getText();  String q = "select \* from login where username = '"+u+"' and password = '"+v+"'";  ResultSet rs = c1.s.executeQuery(q);  **if**(rs.next()) {  **new** **Mainframe**().setVisible(**true**);  setVisible(**false**);  }  **else** {  JOptionPane.showMessageDialog(**null**, "Invalid login");  }  }  **catch**(HeadlessException | SQLException e) {  e.printStackTrace();  }  }  **else** **if**(ae.getSource() == b2) {  System.exit(**0**);  }  }    **public** **static** **void** **main**(String[] arg){  **@SuppressWarnings**("unused")  Login l = **new** Login();  }  } |

4) Student Login Frame

Graphical user interface, application

Description automatically generated

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| **package** ums;  **import** **java.awt.\***;  **import** **javax.swing.\***;  **import** **java.awt.event.\***;  **import** **java.sql.\***;  **@SuppressWarnings**("serial")  **public** **class** **StudentLogin** **extends** JFrame **implements** ActionListener {  JLabel l1,l2;  **static** JTextField t1;  JPasswordField t2;  JButton b1,b2;  StudentLogin(){  **super**("Student Login");  setBackground(Color.white);  setLayout(**null**);  l1 = **new** JLabel("Roll No:");  l1.setBounds(**170**,**140**,**100**,**30**);  l1.setFont(**new** Font("opensans",Font.BOLD,**15**));  add(l1);    l2 = **new** JLabel("Password:");  l2.setBounds(**170**,**190**,**100**,**30**);  l2.setFont(**new** Font("opensans",Font.BOLD,**15**));  add(l2);    t1=**new** JTextField();  t1.setBounds(**250**,**140**,**150**,**30**);  add(t1);  t2=**new** JPasswordField();  t2.setBounds(**250**,**190**,**150**,**30**);  add(t2);    ImageIcon i1 = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/login.jpg"));  Image i2 = i1.getImage().getScaledInstance(**100**,**100**,Image.SCALE\_DEFAULT);  ImageIcon i3 = **new** ImageIcon(i2);  JLabel l3 = **new** JLabel(i3);  l3.setBounds(**270**,**20**,**100**,**100**);  add(l3);  b1 = **new** JButton("Login");  b1.setBounds(**190**,**250**,**120**,**30**);  b1.setFont(**new** Font("opensans",Font.BOLD,**15**));  b1.addActionListener(**this**);  b1.setBackground(**new** Color(**59**, **89**, **182**));  add(b1);  b2=**new** JButton("Exit");  b2.setBounds(**320**,**250**,**120**,**30**);  b2.setFont(**new** Font("opensans",Font.BOLD,**15**));  b2.addActionListener(**this**);  b2.setBackground(**new** Color(**59**, **89**, **182**));  add(b2);  setVisible(**true**);  setSize(**640**,**360**);  setLocationRelativeTo(**null**);  setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);  }  **public** **void** **actionPerformed**(ActionEvent ae){    **if**(ae.getSource() == b1) {    **try** {  Connect c1 = **new** Connect();  String u = t1.getText();  **@SuppressWarnings**("deprecation")  String v = t2.getText();  String q = "select \* from student where Roll\_no = '"+u+"' and password = '"+v+"'";  ResultSet rs = c1.s.executeQuery(q);  **if**(rs.next()) {  String w = rs.getString("First\_name");  **new** **StudentFrame**(w).setVisible(**true**);  setVisible(**false**);  }  **else** {  JOptionPane.showMessageDialog(**null**, "Invalid login");  }  }  **catch**(HeadlessException | SQLException e) {  e.printStackTrace();  }  }  **else** **if**(ae.getSource() == b2) {  System.exit(**0**);  }  }    **public** **static** **void** **main**(String[] arg){  **@SuppressWarnings**("unused")  StudentLogin l = **new** StudentLogin();  }  } |

5) Faculty Login Frame

Graphical user interface, application

Description automatically generated

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| **package** ums;  **import** **java.awt.\***;  **import** **javax.swing.\***;  **import** **java.awt.event.\***;  **import** **java.sql.\***;  **@SuppressWarnings**("serial")  **public** **class** **TeacherLogin** **extends** JFrame **implements** ActionListener {  JLabel l1,l2;  **static** JTextField t1;  JPasswordField t2;  JButton b1,b2;  TeacherLogin(){  **super**("Faculty Login");  setBackground(Color.white);  setLayout(**null**);  l1 = **new** JLabel("FacultyID:");  l1.setBounds(**170**,**140**,**100**,**30**);  l1.setFont(**new** Font("opensans",Font.BOLD,**15**));  add(l1);    l2 = **new** JLabel("Password:");  l2.setBounds(**170**,**190**,**100**,**30**);  l2.setFont(**new** Font("opensans",Font.BOLD,**15**));  add(l2);    t1=**new** JTextField();  t1.setBounds(**250**,**140**,**150**,**30**);  add(t1);  t2=**new** JPasswordField();  t2.setBounds(**250**,**190**,**150**,**30**);  add(t2);    ImageIcon i1 = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/login.jpg"));  Image i2 = i1.getImage().getScaledInstance(**100**,**100**,Image.SCALE\_DEFAULT);  ImageIcon i3 = **new** ImageIcon(i2);  JLabel l3 = **new** JLabel(i3);  l3.setBounds(**270**,**20**,**100**,**100**);  add(l3);  b1 = **new** JButton("Login");  b1.setBounds(**190**,**250**,**120**,**30**);  b1.setFont(**new** Font("opensans",Font.BOLD,**15**));  b1.addActionListener(**this**);  b1.setBackground(**new** Color(**59**, **89**, **182**));  add(b1);  b2=**new** JButton("Exit");  b2.setBounds(**320**,**250**,**120**,**30**);  b2.setFont(**new** Font("opensans",Font.BOLD,**15**));  b2.addActionListener(**this**);  b2.setBackground(**new** Color(**59**, **89**, **182**));  add(b2);  setVisible(**true**);  setSize(**640**,**360**);  setLocationRelativeTo(**null**);  setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);  }  **public** **void** **actionPerformed**(ActionEvent ae){    **if**(ae.getSource() == b1) {    **try** {  Connect c1 = **new** Connect();  String u = t1.getText();  **@SuppressWarnings**("deprecation")  String v = t2.getText();  String q = "select \* from teacher where Faculty\_ID = '"+u+"' and password = '"+v+"'";  ResultSet rs = c1.s.executeQuery(q);  **if**(rs.next()) {  String w = rs.getString("First\_name");  **new** **TeacherFrame**(w).setVisible(**true**);  setVisible(**false**);  }  **else** {  JOptionPane.showMessageDialog(**null**, "Invalid login");  }  }  **catch**(HeadlessException | SQLException e) {  e.printStackTrace();  }  }  **else** **if**(ae.getSource() == b2) {  System.exit(**0**);  }  }    **public** **static** **void** **main**(String[] arg){  **@SuppressWarnings**("unused")  TeacherLogin l = **new** TeacherLogin();  }  } |

6) Main Admin Control Frame

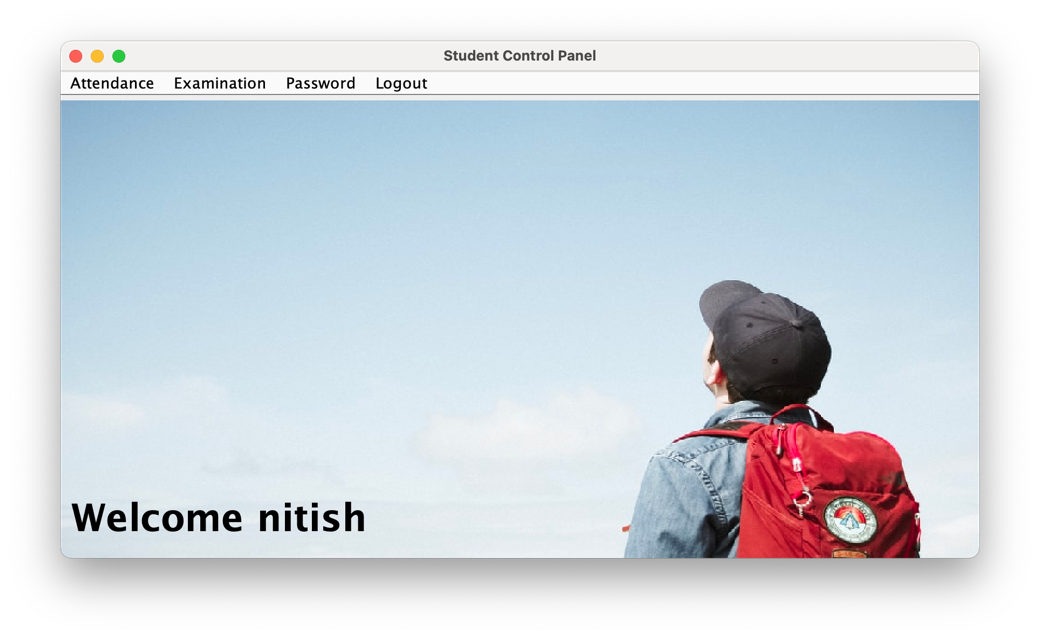
Graphical user interface, application

Description automatically generated

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| **package** ums;  **import** **java.awt.\***;  **import** **java.awt.event.\***;  **import** **javax.swing.\***;  **@SuppressWarnings**("serial")  **public** **class** **Mainframe** **extends** JFrame **implements** ActionListener {  Mainframe(){  **super**("Admin Control Panel");    setSize(**852**,**480**);  setLocationRelativeTo(**null**);  setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);    ImageIcon ic = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/ap.jpg"));  Image i3 = ic.getImage().getScaledInstance(**852**,**480**,Image.SCALE\_DEFAULT);  ImageIcon ic3 = **new** ImageIcon(i3);  JLabel l1 = **new** JLabel(ic3);  add(l1);  JLabel lab = **new** JLabel("Welcome Admin");  lab.setFont(**new** Font("opensans",Font.BOLD,**35**));  lab.setForeground(Color.BLACK);  lab.setBounds(**10**,**370**,**300**,**35**);  l1.add(lab);    JMenuBar mb = **new** JMenuBar();  JMenu admin = **new** JMenu("ADMIN");  JMenuItem m1 = **new** JMenuItem("Add Teacher");  JMenuItem m2 = **new** JMenuItem("Add Student");  JMenuItem m3 = **new** JMenuItem("Add Subject");  admin.setForeground(Color.GREEN);  m1.setFont(**new** Font("opensans",Font.BOLD,**16**));  ImageIcon icon1 = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/teach.png"));  Image image1 = icon1.getImage().getScaledInstance(**25**, **25**,Image.SCALE\_DEFAULT);  m1.setIcon(**new** ImageIcon(image1));  m1.setForeground(Color.BLACK);  m1.setBackground(Color.WHITE);  m2.setFont(**new** Font("opensans",Font.BOLD,**16**));  ImageIcon icon2 = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/stud.png"));  Image image2 = icon2.getImage().getScaledInstance(**20**, **20**,Image.SCALE\_DEFAULT);  m2.setIcon(**new** ImageIcon(image2));  m2.setForeground(Color.BLACK);  m2.setBackground(Color.WHITE);  m3.setFont(**new** Font("opensans",Font.BOLD,**16**));  **@SuppressWarnings**("unused")  ImageIcon icon3 = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/stud.png"));  **@SuppressWarnings**("unused")  Image image3 = icon2.getImage().getScaledInstance(**20**, **20**,Image.SCALE\_DEFAULT);  m3.setIcon(**new** ImageIcon(image2));  m3.setForeground(Color.BLACK);  m3.setBackground(Color.WHITE);  m1.addActionListener(**this**);  m2.addActionListener(**this**);  m3.addActionListener(**this**);    JMenu user = **new** JMenu("Details");  JMenuItem u1 = **new** JMenuItem("Student Details");  JMenuItem u2 = **new** JMenuItem("Teacher Details");  user.setBackground(Color.WHITE);  u1.setFont(**new** Font("opensans",Font.BOLD,**16**));  ImageIcon icon4 = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/sd.png"));  Image image4 = icon4.getImage().getScaledInstance(**25**, **25**,Image.SCALE\_DEFAULT);  u1.setIcon(**new** ImageIcon(image4));  u1.setForeground(Color.BLACK);  u1.setBackground(Color.WHITE);  u2.setFont(**new** Font("opensans",Font.BOLD,**16**));  ImageIcon icon5 = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/td.png"));  Image image5 = icon5.getImage().getScaledInstance(**25**, **25**,Image.SCALE\_DEFAULT);  u2.setIcon(**new** ImageIcon(image5));  u2.setBackground(Color.WHITE);  u2.setForeground(Color.BLACK);  u1.addActionListener(**this**);  u2.addActionListener(**this**);    JMenu report = **new** JMenu("Update Details");  JMenuItem r1 = **new** JMenuItem("Update Students");  JMenuItem r2 = **new** JMenuItem("Update Teachers");  report.setBackground(Color.WHITE);  r1.setFont(**new** Font("opensans",Font.BOLD,**16**));  ImageIcon icon7 = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/update.png"));  Image image7 = icon7.getImage().getScaledInstance(**25**, **25**,Image.SCALE\_DEFAULT);  r1.setIcon(**new** ImageIcon(image7));  r1.setBackground(Color.WHITE);  r1.setForeground(Color.BLACK);  r1.addActionListener(**this**);  r2.setFont(**new** Font("opensans",Font.BOLD,**16**));  ImageIcon iconn = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/update.png"));  Image imagee = iconn.getImage().getScaledInstance(**25**, **25**,Image.SCALE\_DEFAULT);  r2.setIcon(**new** ImageIcon(imagee));  r2.setBackground(Color.WHITE);  r2.setForeground(Color.BLACK);  r2.addActionListener(**this**);      JMenu fee = **new** JMenu("Fee Details");  JMenuItem s2 = **new** JMenuItem("Student Fee Form");  fee.setBackground(Color.WHITE);  s2.setFont(**new** Font("opensans",Font.BOLD,**16**));  ImageIcon icon16 = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/ff.png"));  Image image17 = icon16.getImage().getScaledInstance(**20**, **20**,Image.SCALE\_DEFAULT);  s2.setIcon(**new** ImageIcon(image17));  s2.setBackground(Color.WHITE);  s2.setForeground(Color.BLACK);  s2.addActionListener(**this**);    JMenu about = **new** JMenu("About");  JMenuItem aboutus = **new** JMenuItem("About Us");  about.setBackground(Color.WHITE);  aboutus.setFont(**new** Font("opensans",Font.BOLD,**16**));  ImageIcon icon21 = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/abu.jpg"));  Image image22 = icon21.getImage().getScaledInstance(**25**, **25**,Image.SCALE\_DEFAULT);  aboutus.setIcon(**new** ImageIcon(image22));  aboutus.setBackground(Color.WHITE);  aboutus.setForeground(Color.BLACK);  about.add(aboutus);  aboutus.addActionListener(**this**);      JMenu exit = **new** JMenu("Logout");  JMenuItem ex = **new** JMenuItem("Sure?");  ex.setForeground(Color.BLACK);  ex.setFont(**new** Font("opensans",Font.BOLD,**16**));  ex.setBackground(Color.WHITE);  ex.addActionListener(**this**);    admin.add(m1);  admin.add(m2);  admin.add(m3);    user.add(u1);  user.add(u2);    report.add(r1);  report.add(r2);    fee.add(s2);  exit.add(ex);    mb.add(admin);  mb.add(user);  mb.add(report);  mb.add(fee);  mb.add(exit);  mb.add(about);  mb.add(exit);      setJMenuBar(mb);  setFont(**new** Font("opensans",Font.BOLD,**18**));  setLayout(**new** FlowLayout());  setVisible(**true**);  }  **public** **void** **actionPerformed**(ActionEvent ae) {    String msg = ae.getActionCommand();    **if**(msg.equals("Add Student")) {  **new** **AddStudent**().f.setVisible(**true**);  setVisible(**false**);    }  **else** **if**(msg.equals("Add Teacher")) {  **new** **AddTeacher**().f.setVisible(**true**);  setVisible(**false**);  }  **else** **if**(msg.equals("Add Subject")) {  **new** **AddSubject**().f.setVisible(**true**);  setVisible(**false**);  }  **else** **if**(msg.equals("Update Students")) {  **new** **UpdateStudent**().f.setVisible(**true**);  setVisible(**false**);  }  **else** **if**(msg.equals("Update Teachers")) {  **new** **UpdateTeacher**().f.setVisible(**true**);  setVisible(**false**);  }    **else** **if**(msg.equals("Student Details")) {  **new** **StudentDetails**().setVisible(**true**);  setVisible(**false**);    }  **else** **if**(msg.equals("Teacher Details")) {  **new** **TeacherDeatails**().setVisible(**true**);  setVisible(**false**);  }  **else** **if**(msg.equals("Student Fee Form")) {  **new** **StudentFee**("a").setVisible(**true**);  setVisible(**false**);    }  **else** **if**(msg.equals("About Us")) {  **new** **AboutUs**().setVisible(**true**);  }  **else** **if**(msg.equals("Sure?")) {  **new** **Splash**().f.setVisible(**true**);  setVisible(**false**);  }  }      **public** **static** **void** **main**(String[] args){  **new** **Mainframe**().setVisible(**true**);    }  } |

7) Student Panel Frame.

Welcome message changes with different user



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| **package** ums;  **import** **java.awt.\***;  **import** **java.awt.event.\***;  **import** **javax.swing.\***;  **@SuppressWarnings**("serial")  **public** **class** **StudentFrame** **extends** JFrame **implements** ActionListener {  StudentFrame(String st){  **super**("Student Control Panel");    setSize(**852**,**480**);  setLocationRelativeTo(**null**);  setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);  ImageIcon ic = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/sp2.jpg"));  Image i3 = ic.getImage().getScaledInstance(**852**,**480**,Image.SCALE\_DEFAULT);  ImageIcon ic3 = **new** ImageIcon(i3);  JLabel l1 = **new** JLabel(ic3);  add(l1);  JLabel lab = **new** JLabel("Welcome "+st);  lab.setFont(**new** Font("opensans",Font.BOLD,**35**));  lab.setForeground(Color.BLACK);  lab.setBounds(**10**,**370**,**300**,**35**);  l1.add(lab);    JMenuBar mb = **new** JMenuBar();    JMenu attendance = **new** JMenu("Attendance");  JMenuItem a2 = **new** JMenuItem("My Attendance");  attendance.setBackground(Color.WHITE);  a2.setFont(**new** Font("opensans",Font.BOLD,**16**));  ImageIcon icon25 = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/ta.png"));  Image image26 = icon25.getImage().getScaledInstance(**25**, **25**,Image.SCALE\_DEFAULT);  a2.setIcon(**new** ImageIcon(image26));  a2.setMnemonic('N');  a2.setAccelerator(KeyStroke.getKeyStroke(KeyEvent.VK\_B, ActionEvent.CTRL\_MASK));  a2.setBackground(Color.WHITE);  attendance.add(a2);  a2.addActionListener(**this**);    JMenu exam = **new** JMenu("Examination");  JMenuItem c1 = **new** JMenuItem("Result");  exam.setForeground(Color.BLUE);  c1.setFont(**new** Font("opensans",Font.BOLD,**16**));  ImageIcon icon30 = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/ed.jpg"));  Image image31 = icon30.getImage().getScaledInstance(**25**, **25**,Image.SCALE\_DEFAULT);  c1.setIcon(**new** ImageIcon(image31));  c1.setMnemonic('Q');  c1.setAccelerator(KeyStroke.getKeyStroke(KeyEvent.VK\_P, ActionEvent.CTRL\_MASK));  c1.setBackground(Color.WHITE);  exam.add(c1);  c1.addActionListener(**this**);  JMenu exit = **new** JMenu("Logout");  JMenuItem ex = **new** JMenuItem("Sure?");  exit.setForeground(Color.WHITE);  ex.setFont(**new** Font("opensans",Font.BOLD,**16**));  ImageIcon icon11 = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/abu.jpg"));  Image image11 = icon11.getImage().getScaledInstance(**25**, **25**,Image.SCALE\_DEFAULT);  ex.setIcon(**new** ImageIcon(image11));  ex.setMnemonic('Z');  ex.setAccelerator(KeyStroke.getKeyStroke(KeyEvent.VK\_Z, ActionEvent.CTRL\_MASK));  ex.setBackground(Color.WHITE);  ex.addActionListener(**this**);    JMenu pass = **new** JMenu("Password");  JMenuItem pa = **new** JMenuItem("Change Password");  pass.setForeground(Color.WHITE);  pa.setFont(**new** Font("opensans",Font.BOLD,**16**));  pa.setMnemonic('P');  pa.setAccelerator(KeyStroke.getKeyStroke(KeyEvent.VK\_P, ActionEvent.CTRL\_MASK));  pa.setBackground(Color.WHITE);  pa.addActionListener(**this**);  pass.add(pa);  exit.add(ex);  mb.add(attendance);  mb.add(exam);  mb.add(pass);  mb.add(exit);    setJMenuBar(mb);  setFont(**new** Font("opensans",Font.BOLD,**18**));  setLayout(**new** FlowLayout());  setVisible(**true**);  }  **public** **void** **actionPerformed**(ActionEvent ae) {    String msg = ae.getActionCommand();      **if**(msg.equals("My Attendance")){  String w = StudentLogin.t1.getText();  **new** **MyAttendance**(w,"a").setVisible(**true**);  setVisible(**false**);  }    **else** **if**(msg.equals("Result")) {  String w = StudentLogin.t1.getText();  **new** **MyResult**(w,"a").setVisible(**true**);  setVisible(**false**);    }  **else** **if**(msg.equals("Change Password")) {  **new** **StudentPassword**().f.setVisible(**true**);  setVisible(**false**);  }    **else** **if**(msg.equals("Sure?")) {  **new** **Splash**().f.setVisible(**true**);  setVisible(**false**);  }  }    } |

8)Teacher Panel Frame

Welcome message changes with different user

Graphical user interface

Description automatically generated

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| **package** ums;  **import** **java.awt.\***;  **import** **java.awt.event.\***;  **import** **javax.swing.\***;  **@SuppressWarnings**("serial")  **public** **class** **TeacherFrame** **extends** JFrame **implements** ActionListener {  TeacherFrame(String st){  **super**("Teacher Control Panel");    setSize(**852**,**480**);  setLocationRelativeTo(**null**);  setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);  ImageIcon ic = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/t1.jpg"));  Image i3 = ic.getImage().getScaledInstance(**852**,**480**,Image.SCALE\_DEFAULT);  ImageIcon ic3 = **new** ImageIcon(i3);  JLabel l1 = **new** JLabel(ic3);  add(l1);  JLabel lab = **new** JLabel("Welcome "+st);  lab.setFont(**new** Font("opensans",Font.BOLD,**30**));  lab.setForeground(Color.BLACK);  lab.setBounds(**10**,**370**,**400**,**35**);  l1.add(lab);    JMenuBar mb = **new** JMenuBar();    JMenu attendance = **new** JMenu("Attendance");  JMenuItem a2 = **new** JMenuItem("Student Attendance");  attendance.setBackground(Color.WHITE);  a2.setFont(**new** Font("opensans",Font.BOLD,**16**));  ImageIcon icon25 = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/ta.png"));  Image image26 = icon25.getImage().getScaledInstance(**25**, **25**,Image.SCALE\_DEFAULT);  a2.setIcon(**new** ImageIcon(image26));  a2.setMnemonic('N');  a2.setAccelerator(KeyStroke.getKeyStroke(KeyEvent.VK\_B, ActionEvent.CTRL\_MASK));  a2.setBackground(Color.WHITE);  attendance.add(a2);  a2.addActionListener(**this**);    JMenu exam = **new** JMenu("Examination");  JMenuItem c1 = **new** JMenuItem("Upload Result");  exam.setForeground(Color.BLUE);  c1.setFont(**new** Font("opensans",Font.BOLD,**16**));  ImageIcon icon30 = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/ed.jpg"));  Image image31 = icon30.getImage().getScaledInstance(**25**, **25**,Image.SCALE\_DEFAULT);  c1.setIcon(**new** ImageIcon(image31));  c1.setMnemonic('Q');  c1.setAccelerator(KeyStroke.getKeyStroke(KeyEvent.VK\_P, ActionEvent.CTRL\_MASK));  c1.setBackground(Color.WHITE);  exam.add(c1);  c1.addActionListener(**this**);  JMenu exit = **new** JMenu("Logout");  JMenuItem ex = **new** JMenuItem("Sure?");  exit.setForeground(Color.WHITE);  ex.setFont(**new** Font("opensans",Font.BOLD,**16**));  ImageIcon icon11 = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/abu.jpg"));  Image image11 = icon11.getImage().getScaledInstance(**25**, **25**,Image.SCALE\_DEFAULT);  ex.setIcon(**new** ImageIcon(image11));  ex.setMnemonic('Z');  ex.setAccelerator(KeyStroke.getKeyStroke(KeyEvent.VK\_Z, ActionEvent.CTRL\_MASK));  ex.setBackground(Color.WHITE);  ex.addActionListener(**this**);    JMenu pass = **new** JMenu("Password");  JMenuItem pa = **new** JMenuItem("Change Password");  pass.setForeground(Color.WHITE);  pa.setFont(**new** Font("opensans",Font.BOLD,**16**));  pa.setMnemonic('P');  pa.setAccelerator(KeyStroke.getKeyStroke(KeyEvent.VK\_P, ActionEvent.CTRL\_MASK));  pa.setBackground(Color.WHITE);  pa.addActionListener(**this**);  pass.add(pa);  exit.add(ex);  mb.add(attendance);  mb.add(exam);  mb.add(pass);  mb.add(exit);  setJMenuBar(mb);  setFont(**new** Font("opensans",Font.BOLD,**18**));  setLayout(**new** FlowLayout());  setVisible(**true**);  }  **public** **void** **actionPerformed**(ActionEvent ae) {    String msg = ae.getActionCommand();      **if**(msg.equals("Student Attendance")){  String w = TeacherLogin.t1.getText();  **new** **StudentAttendance**(w).setVisible(**true**);  setVisible(**false**);  }    **else** **if**(msg.equals("Upload Result")) {  String w = TeacherLogin.t1.getText();  **new** **UploadResult**(w).setVisible(**true**);  setVisible(**false**);    }  **else** **if**(msg.equals("Change Password")) {  **new** **TeacherPassword**().f.setVisible(**true**);  setVisible(**false**);  }  **else** **if**(msg.equals("Sure?")) {  **new** **Splash**().f.setVisible(**true**);  setVisible(**false**);  }  }  } |

9) Add Student Frame. Only Admin has control over this

Graphical user interface, application

Description automatically generated

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| **package** ums;  **import** **java.awt.\***;  **import** **java.awt.event.\***;  **import** **java.util.Random**;  **import** **javax.swing.\***;  **public** **class** **AddStudent** **implements** ActionListener {  JFrame f;  JLabel id1,id2,id3,id4,id5,id6,id7,id8,id9,id10,id11,id12,id13,id14,id15;  JTextField t1,t2,t3,t4,t5,t6,t7,t8,t9,t10,t11,t12;  JButton b1,b2;  **@SuppressWarnings**("rawtypes")  JComboBox c1,c2;      Random ran = **new** Random();  **long** first4 = (ran.nextLong() % **900000L**) + **1L**;  **long** first = Math.abs(first4);      **@SuppressWarnings**({ "rawtypes", "unchecked" })  **public** **AddStudent**() {  f = **new** JFrame("Add Student");  //f.setBackground(Color.white);  f.setLayout(**null**);  f.setSize(**1080**,**650**);  f.setLocationRelativeTo(**null**);  f.setDefaultCloseOperation(JFrame.DISPOSE\_ON\_CLOSE);  id1=**new** JLabel();  id1.setBounds(**0**,**0**,**1080**,**650**);  id1.setLayout(**null**);  ImageIcon img = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/sback.jpg"));  Image i3 = img.getImage().getScaledInstance(**1080**, **650**,Image.SCALE\_DEFAULT);  ImageIcon icc3 = **new** ImageIcon(i3);  id1.setIcon(icc3);  id2 = **new** JLabel("New Student Details");  id2.setBounds(**300**,**30**,**500**,**50**);  id2.setFont(**new** Font("opensans",Font.BOLD,**45**));  id2.setForeground(Color.black);  id1.add(id2);  f.add(id1);    id3 = **new** JLabel("First Name");  id3.setBounds(**50**,**150**,**200**,**40**);  id3.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id3);  t1=**new** JTextField();  t1.setBounds(**160**,**150**,**200**,**40**);  t1.setFont(**new** Font("opensans",Font.PLAIN,**20**));  id1.add(t1);    id4 = **new** JLabel("Last Name");  id4.setBounds(**380**,**150**,**200**,**40**);  id4.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id4);  t2=**new** JTextField();  t2.setBounds(**490**,**150**,**200**,**40**);  t2.setFont(**new** Font("opensans",Font.PLAIN,**20**));  id1.add(t2);      id5 = **new** JLabel("Father's Name");  id5.setBounds(**700**,**150**,**200**,**40**);  id5.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id5);  t3=**new** JTextField();  t3.setBounds(**850**,**150**,**200**,**40**);  t3.setFont(**new** Font("opensans",Font.PLAIN,**20**));  id1.add(t3);    id6 = **new** JLabel("DOB(yyyy-mm-dd)");  id6.setBounds(**50**,**200**,**200**,**40**);  id6.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id6);  t4=**new** JTextField();  t4.setBounds(**250**,**200**,**200**,**40**);  t4.setFont(**new** Font("opensans",Font.PLAIN,**20**));  id1.add(t4);    id7= **new** JLabel("Email ID");  id7.setBounds(**470**,**200**,**100**,**40**);  id7.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id7);  t5=**new** JTextField();  t5.setBounds(**560**,**200**,**490**,**40**);  t5.setFont(**new** Font("opensans",Font.PLAIN,**20**));  id1.add(t5);    id8= **new** JLabel("Address");  id8.setBounds(**50**,**250**,**100**,**40**);  id8.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id8);  t6=**new** JTextField();  t6.setBounds(**140**,**250**,**290**,**40**);  t6.setFont(**new** Font("opensans",Font.PLAIN,**20**));  id1.add(t6);    id9= **new** JLabel("Phone");  id9.setBounds(**50**,**300**,**100**,**40**);  id9.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id9);  t7=**new** JTextField();  t7.setBounds(**140**,**300**,**290**,**40**);  t7.setFont(**new** Font("opensans",Font.PLAIN,**20**));  id1.add(t7);    id10= **new** JLabel("Class 10th(%)");  id10.setBounds(**470**,**250**,**150**,**40**);  id10.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id10);  t8=**new** JTextField();  t8.setBounds(**610**,**250**,**130**,**40**);  t8.setFont(**new** Font("opensans",Font.PLAIN,**20**));  id1.add(t8);  id11= **new** JLabel("Class 12th(%)");  id11.setBounds(**780**,**250**,**150**,**40**);  id11.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id11);  t9=**new** JTextField();  t9.setBounds(**920**,**250**,**130**,**40**);  t9.setFont(**new** Font("opensans",Font.PLAIN,**20**));  id1.add(t9);    id12= **new** JLabel("Aadhar No");  id12.setBounds(**470**,**300**,**150**,**40**);  id12.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id12);  t10=**new** JTextField();  t10.setBounds(**620**,**300**,**200**,**40**);  t10.setFont(**new** Font("opensans",Font.PLAIN,**20**));  id1.add(t10);    id13= **new** JLabel("Roll No");  id13.setBounds(**50**,**350**,**150**,**40**);  id13.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id13);  t11=**new** JTextField();  t11.setBounds(**150**,**350**,**150**,**40**);  t11.setText("Y20"+first);  t11.setFont(**new** Font("opensans",Font.BOLD,**20**));  t11.setEditable(**false**);  id1.add(t11);    id13=**new** JLabel("Course");  id13.setBounds(**380**,**350**,**150**,**40**);  id13.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id13);  String course[] = {"B.Tech","M.Tech","B.Tech-M.Tech","M.Sc","Ph.D"};  c1 = **new** JComboBox(course);  c1.setBackground(Color.WHITE);  c1.setFont(**new** Font("opensans",Font.PLAIN,**20**));  c1.setBounds(**450**,**350**,**200**,**40**);  id1.add(c1);  id14=**new** JLabel("Branch");  id14.setBounds(**680**,**350**,**150**,**40**);  id14.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id14);  String branch[] = {"Communication and Computer Engineering","Computer Science and Engineering","Electronics and Communication Engineering","Mechanical Engineering"};  c2 = **new** JComboBox(branch);  c2.setBackground(Color.WHITE);  c2.setFont(**new** Font("opensans",Font.PLAIN,**20**));  c2.setBounds(**750**,**350**,**300**,**40**);  id1.add(c2);      id15= **new** JLabel("Password");  id15.setBounds(**300**,**450**,**150**,**40**);  id15.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id15);  t12=**new** JPasswordField();  t12.setBounds(**400**,**450**,**270**,**40**);  t12.setText(""+first);  t12.setEditable(**false**);  t12.setFont(**new** Font("opensans",Font.PLAIN,**20**));  id1.add(t12);    b1 = **new** JButton("Submit");  b1.setBackground(**new** Color(**59**, **89**, **182**));  b1.setBounds(**730**,**450**,**120**,**50**);  id1.add(b1);  b2=**new** JButton("Cancel");  b2.setBackground(**new** Color(**59**, **89**, **182**));  b2.setBounds(**850**,**450**,**120**,**50**);  id1.add(b2);    b1.addActionListener(**this**);  b2.addActionListener(**this**);      }    **public** **void** **actionPerformed**(ActionEvent ae){      String fname = t1.getText();  String lname = t2.getText();  String fa\_name = t3.getText();  String dob = t4.getText();  String eid = t5.getText();  String addr = t6.getText();  String ph = t7.getText();  String cx = t8.getText();  String cxii = t9.getText();  String aadhar = t10.getText();  String roll\_no = t11.getText();  String pass = t12.getText();  String cour = (String)c1.getSelectedItem();  String bran = (String)c2.getSelectedItem();    **if**(ae.getSource() == b1){  **try**{  Connect cc = **new** Connect();  String q = "insert into student values('"+roll\_no+"','"+fname+"','"+lname+"','"+fa\_name+"','"+dob+"','"+ph+"','"+eid+"','"+addr+"','"+cx+"','"+cxii+"','"+cour+"','"+bran+"','"+aadhar+"','"+pass+"')";  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() == b2){  f.setVisible(**false**);  **new** **Mainframe**().setVisible(**true**);    }  }  **public** **static** **void** **main**(String[ ] arg){  **new** **AddStudent**().f.setVisible(**true**);  }  } |

10) Add Subject Frame.

Graphical user interface, website

Description automatically generated

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| **package** ums;  **import** **java.awt.\***;  **import** **java.awt.event.\***;  **import** **javax.swing.\***;  **public** **class** **AddSubject** **implements** ActionListener {  JFrame f;  JLabel id1,id2,id3,id4;  JTextField t1,t2;  JButton b1,b2;      **public** **AddSubject**() {  f = **new** JFrame("Add Subject");  f.setLayout(**null**);  f.setSize(**852**,**480**);  f.setLocationRelativeTo(**null**);  f.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);  id1=**new** JLabel();  id1.setBounds(**0**,**0**,**852**,**480**);  id1.setLayout(**null**);  ImageIcon img = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/sback.jpg"));  Image i3 = img.getImage().getScaledInstance(**852**, **480**,Image.SCALE\_DEFAULT);  ImageIcon icc3 = **new** ImageIcon(i3);  id1.setIcon(icc3);  id2 = **new** JLabel("New Subject Details");  id2.setBounds(**200**,**30**,**500**,**50**);  id2.setFont(**new** Font("opensans",Font.BOLD,**45**));  id2.setForeground(Color.black);  id1.add(id2);  f.add(id1);    id3 = **new** JLabel("SUBCODE");  id3.setBounds(**50**,**150**,**200**,**40**);  id3.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id3);  t1=**new** JTextField();  t1.setBounds(**200**,**150**,**200**,**40**);  t1.setFont(**new** Font("opensans",Font.PLAIN,**20**));  id1.add(t1);    id4 = **new** JLabel("Subject Name");  id4.setBounds(**50**,**200**,**200**,**40**);  id4.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id4);  t2=**new** JTextField();  t2.setBounds(**200**,**200**,**520**,**40**);  t2.setFont(**new** Font("opensans",Font.PLAIN,**20**));  id1.add(t2);      b1 = **new** JButton("Submit");  b1.setBackground(**new** Color(**59**, **89**, **182**));  b1.setBounds(**480**,**300**,**120**,**50**);  id1.add(b1);  b2=**new** JButton("Cancel");  b2.setBackground(**new** Color(**59**, **89**, **182**));  b2.setBounds(**600**,**300**,**120**,**50**);  id1.add(b2);    b1.addActionListener(**this**);  b2.addActionListener(**this**);      }    **public** **void** **actionPerformed**(ActionEvent ae){      String subcode = t1.getText();  String sname = t2.getText();      **if**(ae.getSource() == b1){  **try**{  Connect cc = **new** Connect();  String q = "insert into subject values('"+subcode+"','"+sname+"')";  cc.s.executeUpdate(q);  JOptionPane.showMessageDialog(**null**,"Subject Successfully Added");  f.setVisible(**false**);  }**catch**(Exception ee){  System.out.println("The error is:"+ee);  }  }**else** **if**(ae.getSource() == b2){  f.setVisible(**false**);  **new** **Mainframe**().setVisible(**true**);    }  }  **public** **static** **void** **main**(String[ ] arg){  **new** **AddSubject**().f.setVisible(**true**);  }  } |

11) Add Teacher Frame

Graphical user interface, application

Description automatically generated

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| **package** ums;  **import** **java.awt.\***;  **import** **java.awt.event.\***;  **import** **java.sql.ResultSet**;  **import** **java.util.Random**;  **import** **javax.swing.\***;  **public** **class** **AddTeacher** **implements** ActionListener {  JFrame f;  JLabel id1,id2,id3,id4,id5,id6,id7,id8,id9,id10,id11,id12,id13,id14,id15;  JTextField t1,t2,t3,t4,t5,t6,t7,t8,t9,t10,t11,t12;  JButton b1,b2;  **@SuppressWarnings**("rawtypes")  JComboBox c1,c2,c3;  Choice c4;      Random ran = **new** Random();  **long** first4 = (ran.nextLong() % **900000L**) + **1L**;  **long** first = Math.abs(first4);      **@SuppressWarnings**({ "rawtypes", "unchecked" })  **public** **AddTeacher**() {  f = **new** JFrame("Add Teacher");  //f.setBackground(Color.white);  f.setLayout(**null**);  f.setSize(**1080**,**650**);  f.setLocationRelativeTo(**null**);  f.setDefaultCloseOperation(JFrame.DISPOSE\_ON\_CLOSE);  id1=**new** JLabel();  id1.setBounds(**0**,**0**,**1080**,**650**);  id1.setLayout(**null**);  ImageIcon img = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/sback.jpg"));  Image i3 = img.getImage().getScaledInstance(**1080**, **650**,Image.SCALE\_DEFAULT);  ImageIcon icc3 = **new** ImageIcon(i3);  id1.setIcon(icc3);  id2 = **new** JLabel("New Teacher Details");  id2.setBounds(**300**,**30**,**500**,**50**);  id2.setFont(**new** Font("opensans",Font.BOLD,**45**));  id2.setForeground(Color.black);  id1.add(id2);  f.add(id1);    id3 = **new** JLabel("First Name");  id3.setBounds(**50**,**150**,**200**,**40**);  id3.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id3);  t1=**new** JTextField();  t1.setBounds(**160**,**150**,**200**,**40**);  t1.setFont(**new** Font("opensans",Font.PLAIN,**20**));  id1.add(t1);    id4 = **new** JLabel("Last Name");  id4.setBounds(**380**,**150**,**200**,**40**);  id4.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id4);  t2=**new** JTextField();  t2.setBounds(**490**,**150**,**200**,**40**);  t2.setFont(**new** Font("opensans",Font.PLAIN,**20**));  id1.add(t2);      id5 = **new** JLabel("Father's Name");  id5.setBounds(**700**,**150**,**200**,**40**);  id5.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id5);  t3=**new** JTextField();  t3.setBounds(**850**,**150**,**200**,**40**);  t3.setFont(**new** Font("opensans",Font.PLAIN,**20**));  id1.add(t3);    id6 = **new** JLabel("DOB(yyyy-mm-dd)");  id6.setBounds(**50**,**200**,**200**,**40**);  id6.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id6);  t4=**new** JTextField();  t4.setBounds(**250**,**200**,**200**,**40**);  t4.setFont(**new** Font("opensans",Font.PLAIN,**20**));  id1.add(t4);    id7= **new** JLabel("Email ID");  id7.setBounds(**470**,**200**,**100**,**40**);  id7.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id7);  t5=**new** JTextField();  t5.setBounds(**560**,**200**,**490**,**40**);  t5.setFont(**new** Font("opensans",Font.PLAIN,**20**));  id1.add(t5);    id8= **new** JLabel("Address");  id8.setBounds(**50**,**250**,**100**,**40**);  id8.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id8);  t6=**new** JTextField();  t6.setBounds(**140**,**250**,**490**,**40**);  t6.setFont(**new** Font("opensans",Font.PLAIN,**20**));  id1.add(t6);    id9= **new** JLabel("Phone");  id9.setBounds(**50**,**300**,**100**,**40**);  id9.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id9);  t7=**new** JTextField();  t7.setBounds(**140**,**300**,**290**,**40**);  t7.setFont(**new** Font("opensans",Font.PLAIN,**20**));  id1.add(t7);    id10=**new** JLabel("Marital Status");  id10.setBounds(**450**,**300**,**150**,**40**);  id10.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id10);  String status[] = {"Married","Unmarried"};  c3 = **new** JComboBox(status);  c3.setBackground(Color.WHITE);  c3.setFont(**new** Font("opensans",Font.PLAIN,**20**));  c3.setBounds(**600**,**300**,**200**,**40**);  id1.add(c3);    id12= **new** JLabel("Aadhar No");  id12.setBounds(**670**,**250**,**150**,**40**);  id12.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id12);  t10=**new** JTextField();  t10.setBounds(**800**,**250**,**270**,**40**);  t10.setFont(**new** Font("opensans",Font.PLAIN,**20**));  id1.add(t10);    id13= **new** JLabel("Faculty ID");  id13.setBounds(**50**,**350**,**150**,**40**);  id13.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id13);  t11=**new** JTextField();  t11.setBounds(**160**,**350**,**150**,**40**);  t11.setText("T20"+first);  t11.setFont(**new** Font("opensans",Font.BOLD,**20**));  t11.setEditable(**false**);  id1.add(t11);    id13=**new** JLabel("Subject");  id13.setBounds(**315**,**350**,**150**,**40**);  id13.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id13);  c1 = **new** JComboBox();  **try**{  Connect c = **new** Connect();  ResultSet rs = c.s.executeQuery("select \* from subject");  **while**(rs.next()){  c1.addItem(rs.getString("subcode"));    }  }  **catch**(Exception e){ };  c1.setFont(**new** Font("opensans",Font.PLAIN,**20**));  c1.setBounds(**390**,**350**,**200**,**40**);  id1.add(c1);  id14=**new** JLabel("Department");  id14.setBounds(**620**,**350**,**150**,**40**);  id14.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id14);  String branch[] = {"Computer Science Department","Electronics and Communication Department","Mechanical Department","Physics annd Maths Department"};  c2 = **new** JComboBox(branch);  c2.setBackground(Color.WHITE);  c2.setFont(**new** Font("opensans",Font.PLAIN,**20**));  c2.setBounds(**740**,**350**,**300**,**40**);  id1.add(c2);    id15= **new** JLabel("Password");  id15.setBounds(**300**,**450**,**150**,**40**);  id15.setFont(**new** Font("opensans",Font.BOLD,**20**));  id1.add(id15);  t12=**new** JPasswordField();  t12.setText("T20"+first);  t12.setEditable(**false**);  t12.setBounds(**400**,**450**,**270**,**40**);  t12.setFont(**new** Font("opensans",Font.PLAIN,**20**));  id1.add(t12);    b1 = **new** JButton("Submit");  b1.setBackground(**new** Color(**59**, **89**, **182**));  b1.setBounds(**730**,**450**,**120**,**50**);  id1.add(b1);  b2=**new** JButton("Cancel");  b2.setBackground(**new** Color(**59**, **89**, **182**));  b2.setBounds(**850**,**450**,**120**,**50**);  id1.add(b2);    b1.addActionListener(**this**);  b2.addActionListener(**this**);      }    **public** **void** **actionPerformed**(ActionEvent ae){      String fname = t1.getText();  String lname = t2.getText();  String fa\_name = t3.getText();  String dob = t4.getText();  String eid = t5.getText();  String addr = t6.getText();  String ph = t7.getText();  String aadhar = t10.getText();  String roll\_no = t11.getText();  String cour = (String)c1.getSelectedItem();  String bran = (String)c2.getSelectedItem();  String mari = (String)c3.getSelectedItem();  String pass = t12.getText();    **if**(ae.getSource() == b1){  **try**{  Connect cc = **new** Connect();  String q = "insert into teacher values('"+roll\_no+"','"+fname+"','"+lname+"','"+fa\_name+"','"+dob+"','"+ph+"','"+eid+"','"+addr+"','"+bran+"','"+cour+"','"+mari+"','"+aadhar+"','"+pass+"')";  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() == b2){  f.setVisible(**false**);  **new** **Mainframe**().setVisible(**true**);    }  }  **public** **static** **void** **main**(String[ ] arg){  **new** **AddTeacher**().f.setVisible(**true**);  }  } |

12) Mark Student Attendance Frame

Graphical user interface

Description automatically generated

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| **package** ums;  **import** **java.sql.\***;  **import** **javax.swing.\***;  **import** **java.awt.\***;  **import** **java.awt.event.\***;  **@SuppressWarnings**("serial")  **public** **class** **StudentAttendance** **extends** JFrame **implements** ActionListener {  JLabel l1,l2,l3,l4,l5,l6,l7,l8,l9,id1,id2,id3,id4;  JButton b1,b2;  Choice c2,fh,sh;    StudentAttendance(String st) {    setLayout(**null**);  setSize(**852**,**480**);  setLocationRelativeTo(**null**);  setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);    id1=**new** JLabel();  id1.setBounds(**0**,**0**,**852**,**480**);  id1.setLayout(**null**);  ImageIcon img = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/sback.jpg"));  Image i3 = img.getImage().getScaledInstance(**852**, **480**,Image.SCALE\_DEFAULT);  ImageIcon icc3 = **new** ImageIcon(i3);  id1.setIcon(icc3);  add(id1);    id2 = **new** JLabel("Student Attendance");  id2.setBounds(**250**,**30**,**500**,**50**);  id2.setFont(**new** Font("arial",Font.BOLD,**35**));  id2.setForeground(Color.black);  id1.add(id2);    id4 = **new** JLabel("Your Subject");  id4.setBounds(**200**,**350**,**500**,**50**);  id4.setFont(**new** Font("arial",Font.BOLD,**20**));  id4.setForeground(Color.black);  id1.add(id4);  l9=**new** JLabel();      **try**{  Connect c = **new** Connect();  ResultSet rs = c.s.executeQuery("select \* from teacher where Faculty\_ID = '"+st+"'");  **while**(rs.next()){  l9.setText(rs.getString("Subject"));  }    }  **catch**(Exception e){ }  l9.setBounds(**350**,**350**,**150**,**50**);  l9.setFont(**new** Font("arial",Font.PLAIN,**20**));  id1.add(l9);      id3 = **new** JLabel("Select Roll Number");  id3.setBounds(**50**,**150**,**200**,**50**);  id3.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(id3);  c2 = **new** Choice();  **try**{  Connect c = **new** Connect();  ResultSet rs = c.s.executeQuery("select \* from student");  **while**(rs.next()){  c2.add(rs.getString("Roll\_no"));  }    }  **catch**(Exception e){ }  c2.setBounds(**300**,**150**,**150**,**40**);  c2.setFont(**new** Font("arial",Font.PLAIN,**20**));  id1.add(c2);      String d1 = **new** java.util.Date().toString();  l8 = **new** JLabel(d1);  l8.setBounds(**500**,**150**,**370**,**40**);  l8.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(l8);    l1 = **new** JLabel("Attendance");  l1.setBounds(**50**,**200**,**200**,**40**);  l1.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(l1);    fh = **new** Choice();  fh.add("Present");  fh.add("Absent");  fh.setBounds(**300**,**200**,**150**,**40**);  fh.setFont(**new** Font("arial",Font.PLAIN,**20**));  id1.add(fh);      b1 =**new** JButton("Upload");  b1.setBackground(**new** Color(**59**, **89**, **182**));  b1.setBounds(**530**,**350**,**120**,**50**);  id1.add(b1);    b2 = **new** JButton("Cancel");  b2.setBackground(**new** Color(**59**, **89**, **182**));  b2.setBounds(**650**,**350**,**120**,**50**);  id1.add(b2);        b1.addActionListener(**this**);  b2.addActionListener(**this**);  setVisible(**true**);    }    **public** **void** **actionPerformed**(ActionEvent ae){    String pa = fh.getSelectedItem();  String dt = **new** java.util.Date().toString();  String id=c2.getSelectedItem();  String sub=l9.getText();  String qry = "insert into student\_attendance values('"+id+"','"+sub+"','"+dt+"','"+pa+"')";  **if**(ae.getSource() == b1) {  **try**{  Connect c1 = **new** Connect();  c1.s.executeUpdate(qry);  JOptionPane.showMessageDialog(**null**,"Attendance confirmed");  }**catch**(Exception ee){  ee.printStackTrace();  }  }  **else** **if**(ae.getSource() == b2) {  String w =TeacherLogin.t1.getText();  **new** **TeacherFrame**(w).setVisible(**true**);  setVisible(**false**);  }  }  } |

13) Upload Student Marks

A picture containing timeline

Description automatically generated

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| **package** ums;  **import** **java.sql.\***;  **import** **javax.swing.\***;  **import** **java.awt.\***;  **import** **java.awt.event.\***;  **@SuppressWarnings**("serial")  **public** **class** **UploadResult** **extends** JFrame **implements** ActionListener {  JLabel l1,l2,l3,l4,l5,l6,l7,l8,l9,id1,id2,id3,id4,id5;  JButton b1,b2;  JTextField t1,t2;  Choice c2,fh,sh;  **@SuppressWarnings**("rawtypes")  JComboBox comboBox\_2;    **@SuppressWarnings**({ "rawtypes", "unchecked" })  UploadResult(String st) {    setLayout(**null**);  setSize(**852**,**480**);  setLocationRelativeTo(**null**);  setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);    id1=**new** JLabel();  id1.setBounds(**0**,**0**,**852**,**480**);  id1.setLayout(**null**);  ImageIcon img = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/sback.jpg"));  Image i3 = img.getImage().getScaledInstance(**852**, **480**,Image.SCALE\_DEFAULT);  ImageIcon icc3 = **new** ImageIcon(i3);  id1.setIcon(icc3);  add(id1);    id2 = **new** JLabel("Upload Marks");  id2.setBounds(**100**,**30**,**500**,**50**);  id2.setFont(**new** Font("arial",Font.BOLD,**35**));  id2.setForeground(Color.black);  id1.add(id2);    id4 = **new** JLabel("Marks obtained in ");  id4.setBounds(**50**,**200**,**300**,**25**);  id4.setFont(**new** Font("arial",Font.BOLD,**20**));  id4.setForeground(Color.black);  id1.add(id4);  l9=**new** JLabel();      **try**{  Connect c = **new** Connect();  ResultSet rs = c.s.executeQuery("select \* from teacher where Faculty\_ID = '"+st+"'");  **while**(rs.next()){  l9.setText(rs.getString("Subject"));  }    }  **catch**(Exception e){ }  l9.setBounds(**230**,**200**,**150**,**25**);  l9.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(l9);    t1 = **new** JTextField();  t1.setBounds(**300**,**200**,**150**,**25**);  t1.setFont(**new** Font("arial",Font.BOLD,**20**));  t1.setForeground(Color.black);  id1.add(t1);    id5 = **new** JLabel("Maximum Marks ");  id5.setBounds(**50**,**250**,**300**,**25**);  id5.setFont(**new** Font("arial",Font.BOLD,**20**));  id5.setForeground(Color.black);  id1.add(id5);  t2 = **new** JTextField();  t2.setBounds(**300**,**250**,**150**,**25**);  t2.setFont(**new** Font("arial",Font.BOLD,**20**));  t2.setForeground(Color.black);  id1.add(t2);    id3 = **new** JLabel("Select Roll Number");  id3.setBounds(**50**,**100**,**200**,**50**);  id3.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(id3);  c2 = **new** Choice();  **try**{  Connect c = **new** Connect();  ResultSet rs = c.s.executeQuery("select \* from student");  **while**(rs.next()){  c2.add(rs.getString("Roll\_no"));  }    }  **catch**(Exception e){ }  c2.setBounds(**250**,**100**,**150**,**50**);  c2.setFont(**new** Font("arial",Font.PLAIN,**20**));  id1.add(c2);    JLabel l5 = **new** JLabel("Semester");  l5.setForeground(Color.black);  l5.setFont(**new** Font("opensans", Font.BOLD, **20**));  l5.setBounds(**420**, **100**, **150**, **50**);  id1.add(l5);  comboBox\_2 = **new** JComboBox();  comboBox\_2.setModel(**new** DefaultComboBoxModel(**new** String[] { "1st", "2nd", "3rd", "4th", "5th", "6th", "7th", "8th" }));  comboBox\_2.setFont(**new** Font("opensans", Font.BOLD, **14**));  comboBox\_2.setForeground(Color.BLACK);  comboBox\_2.setBounds(**520**, **100**, **150**, **50**);  id1.add(comboBox\_2);              b1 =**new** JButton("Upload");  b1.setBackground(**new** Color(**59**, **89**, **182**));  b1.setBounds(**530**,**350**,**120**,**50**);  id1.add(b1);    b2 = **new** JButton("Cancel");  b2.setBackground(**new** Color(**59**, **89**, **182**));  b2.setBounds(**650**,**350**,**120**,**50**);  id1.add(b2);        b1.addActionListener(**this**);  b2.addActionListener(**this**);  setVisible(**true**);    }    **public** **void** **actionPerformed**(ActionEvent ae){    **if**(ae.getSource() == b1) {  String mar = t1.getText();  String max = t2.getText();  String sem = (String) comboBox\_2.getSelectedItem();  String id=c2.getSelectedItem();  String sub=l9.getText();  **int** p = Integer.valueOf(mar);  **int** q = Integer.valueOf(max);  **float** per = (p\***100.00f**/q);  String perc = String.valueOf(per);  String qry = "insert into marks values('"+id+"','"+sub+"','"+sem+"','"+mar+"','"+max+"','"+perc+"')";    **try**{  Connect c1 = **new** Connect();  c1.s.executeUpdate(qry);  JOptionPane.showMessageDialog(**null**,"Marks uploaded");  }**catch**(Exception ee){  ee.printStackTrace();  }  }  **else** **if** (ae.getSource() == b2) {  String w =TeacherLogin.t1.getText();  **new** **TeacherFrame**(w).setVisible(**true**);  setVisible(**false**);  }  }  } |

14) Pay Fee Form

Graphical user interface, application

Description automatically generated

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| **package** ums;  **import** **java.awt.\***;  **import** **javax.swing.\***;  **import** **javax.swing.border.\***;  **import** **java.awt.event.\***;  **import** **java.sql.\***;  **@SuppressWarnings**("serial")  **public** **class** **StudentFee** **extends** JFrame **implements** ActionListener {  JPanel contentPane;  JTextField t1,t2,t3,t4,t5,t6;  **@SuppressWarnings**("rawtypes")  JComboBox comboBox\_2;  JButton b1,b2,b3;  Choice c1;    **@SuppressWarnings**({ "rawtypes", "unchecked" })  **public** **StudentFee**(String w) {  **super**("Student Fee Form");  setBounds(**0**,**0**, **852**, **480**);  contentPane = **new** JPanel();  contentPane.setBorder(**new** EmptyBorder(**5**, **5**, **5**, **5**));  setContentPane(contentPane);  contentPane.setLayout(**null**);  setLocationRelativeTo(**null**);  setDefaultCloseOperation(JFrame.DISPOSE\_ON\_CLOSE);    c1 = **new** Choice();  c1.setForeground(Color.BLACK);  c1.setFont(**new** Font("opensans", Font.BOLD, **15**));    **try** {  Connect c = **new** Connect();  ResultSet rs = c.s.executeQuery("select \* from student");  **while**(rs.next()){  c1.add(rs.getString("Roll\_no"));  }  }  **catch**(Exception e) { }  c1.setBounds(**175**, **50**, **150**, **30**);  contentPane.add(c1);    JLabel l1 = **new** JLabel("Select Roll No");  l1.setForeground(**new** Color(**25**, **25**, **112**));  l1.setFont(**new** Font("opensans", Font.BOLD, **15**));  l1.setBounds(**60**, **50**, **150**, **30**);  contentPane.add(l1);  JLabel l2 = **new** JLabel("First Name");  l2.setForeground(**new** Color(**25**, **25**, **112**));  l2.setFont(**new** Font("opensans", Font.BOLD, **15**));  l2.setBounds(**60**, **100**, **150**, **30**);  contentPane.add(l2);  t2 = **new** JTextField();  t2.setForeground(Color.BLACK);  t2.setFont(**new** Font("opensans", Font.BOLD, **15**));  t2.setBounds(**175**, **100**, **150**, **30**);  t2.setEditable(**false**);  contentPane.add(t2);    JLabel l8 = **new** JLabel("Last Name");  l8.setForeground(**new** Color(**25**, **25**, **112**));  l8.setFont(**new** Font("opensans", Font.BOLD, **15**));  l8.setBounds(**400**, **100**, **150**, **30**);  contentPane.add(l8);  t6 = **new** JTextField();  t6.setForeground(Color.BLACK);  t6.setFont(**new** Font("opensans", Font.BOLD, **15**));  t6.setBounds(**500**, **100**, **150**, **30**);  t6.setEditable(**false**);  contentPane.add(t6);  JLabel l3 = **new** JLabel("Father's Name");  l3.setForeground(**new** Color(**25**, **25**, **112**));  l3.setFont(**new** Font("opensans", Font.BOLD, **15**));  l3.setBounds(**60**, **150**, **150**, **30**);  contentPane.add(l3);  t3 = **new** JTextField();  t3.setForeground(Color.BLACK);  t3.setFont(**new** Font("opensans", Font.BOLD, **15**));  t3.setBounds(**175**, **150**, **150**, **30**);  t3.setEditable(**false**);  contentPane.add(t3);    JLabel l4 = **new** JLabel("Branch");  l4.setForeground(**new** Color(**25**, **25**, **112**));  l4.setFont(**new** Font("opensans", Font.BOLD, **15**));  l4.setBounds(**60**, **250**,**100**, **30**);  contentPane.add(l4);  t4 = **new** JTextField();  t4.setForeground(Color.BLACK);  t4.setFont(**new** Font("opensans", Font.BOLD, **15**));  t4.setColumns(**10**);  t4.setBounds(**125**,**250**,**400**, **30**);  t4.setEditable(**false**);  contentPane.add(t4);      JLabel l9 = **new** JLabel("Degree");  l9.setForeground(**new** Color(**25**, **25**, **112**));  l9.setFont(**new** Font("opensans", Font.BOLD, **15**));  l9.setBounds(**60**, **200**, **150**, **30**);  contentPane.add(l9);  t5 = **new** JTextField();  t5.setForeground(Color.BLACK);  t5.setFont(**new** Font("opensans", Font.BOLD, **14**));  t5.setColumns(**10**);  t5.setBounds(**175**, **200**, **150**, **30**);  t5.setEditable(**false**);  contentPane.add(t5);  JLabel l5 = **new** JLabel("Semester");  l5.setForeground(**new** Color(**25**, **25**, **112**));  l5.setFont(**new** Font("opensans", Font.BOLD, **15**));  l5.setBounds(**400**, **200**, **150**, **30**);  contentPane.add(l5);  comboBox\_2 = **new** JComboBox();  comboBox\_2.setModel(**new** DefaultComboBoxModel(**new** String[] { "1st", "2nd", "3rd", "4th", "5th", "6th", "7th", "8th" }));  comboBox\_2.setFont(**new** Font("opensans", Font.BOLD, **14**));  comboBox\_2.setForeground(Color.BLACK);  comboBox\_2.setBounds(**500**, **200**, **150**, **30**);  contentPane.add(comboBox\_2);  JLabel l6 = **new** JLabel("Total Payable");  l6.setForeground(**new** Color(**25**, **25**, **112**));  l6.setFont(**new** Font("opensans", Font.BOLD, **30**));  l6.setBounds(**60**, **350**, **300**,**50**);  contentPane.add(l6);  t1 = **new** JTextField();  t1.setForeground(Color.BLACK);  t1.setFont(**new** Font("opensans", Font.BOLD, **30**));  t1.setColumns(**10**);  t1.setBounds(**280**, **350**, **150**, **50**);  contentPane.add(t1);    **try**{  Connect c = **new** Connect();  ResultSet rs = c.s.executeQuery("select \* from student where Roll\_no = '"+w+"'");  **while**(rs.next()){  t2.setText(rs.getString("First\_name"));  t6.setText(rs.getString("Last\_name"));  t3.setText(rs.getString("Father\_name"));  t4.setText(rs.getString("Branch"));  t5.setText(rs.getString("Degree"));  }  }  **catch**(Exception e){}    b1 = **new** JButton("Pay");  b1.addActionListener(**this**);  b1.setFont(**new** Font("opensans", Font.BOLD, **30**));  b1.setBounds(**500**, **350**, **150**, **50**);  b1.setBackground(Color.BLACK);  contentPane.add(b1);    b3 = **new** JButton("Go");  b3.addActionListener(**this**);  b3.setFont(**new** Font("opensans", Font.BOLD, **25**));  b3.setBounds(**325**, **50**, **150**, **30**);  b3.setBackground(Color.BLACK);  contentPane.add(b3);  b2 = **new** JButton("Cancel");  b2.addActionListener(**this**);  b2.setFont(**new** Font("opensans", Font.BOLD, **30**));  b2.setBounds(**650**, **350**, **150**, **50**);  b2.setBackground(Color.BLACK);  contentPane.add(b2);    JPanel panel = **new** JPanel();  panel.setBorder(**new** TitledBorder(**new** LineBorder(**new** Color(**59**, **89**, **182**), **2**, **true**), "Form", TitledBorder.LEADING, TitledBorder.TOP, **null**, **new** Color(**59**, **89**, **182**)));  panel.setBackground(**new** Color(**211**, **211**, **211**));  panel.setBounds(**10**, **10**, **830**, **430**);  contentPane.setBackground(Color.WHITE);  panel.setBackground(Color.WHITE);  contentPane.add(panel);  }  **public** **void** **actionPerformed**(ActionEvent ae) {  **try** {  **if**(ae.getSource() == b1){  **try** {  Connect con = **new** Connect();  String sql = "insert into fee(Roll\_no, First\_name, Last\_name, Semester, Amount\_Paid) values(?, ?, ?, ?, ?)";  PreparedStatement st = con.c.prepareStatement(sql);  st.setString(**1**, c1.getSelectedItem());  st.setString(**2**, t2.getText());  st.setString(**3**, t6.getText());  st.setString(**4**, (String) comboBox\_2.getSelectedItem());  st.setString(**5**, t1.getText());    **int** i = st.executeUpdate();  **if** (i > **0**) {  JOptionPane.showMessageDialog(**null**, "Successfully Paid");  **this**.setVisible(**false**);  }  **else**  JOptionPane.showMessageDialog(**null**, "error");  }**catch**(Exception e){  e.printStackTrace();  }  }    **else** **if**(ae.getSource() == b2){  **new** **Mainframe**().setVisible(**true**);  **this**.setVisible(**false**);  }  **else** **if**(ae.getSource() == b3){  String w = c1.getSelectedItem();  **new** **StudentFee**(w).setVisible(**true**);  setVisible(**false**);  **this**.setVisible(**false**);  }  }**catch**(Exception e){    }  }  **public** **static** **void** **main**(String[] args) {  **new** **StudentFee**("w").setVisible(**true**);  }  } |

15) Check Your Result

Table

Description automatically generated

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| **package** ums;  **import** **java.sql.\***;  **import** **javax.swing.\***;  **import** **java.awt.Color**;  **import** **java.awt.Font**;  **import** **java.awt.event.\***;  **@SuppressWarnings**("serial")  **public** **class** **MyResult** **extends** JFrame **implements** ActionListener {  JTable j1;  JLabel l1,l2,id3;  JButton b1,b2;  JTextField t3,t4;  String h[]={"Roll Number","Subject","Semester","Marks Scored","Total Marks","Percentage"};  String d[][]=**new** String[**50**][**6**];  String m;  **int** i=**0**,j=**0**,p,q=**0**;  **float** frac;  **@SuppressWarnings**("rawtypes")  JComboBox comboBox\_2;    **@SuppressWarnings**({ "rawtypes", "unchecked" })  MyResult(String st,String w){  **super**("My Result");  setSize(**852**,**420**);  setLocationRelativeTo(**null**);  setBackground(Color.WHITE);  setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);  setLayout(**null**);    id3 = **new** JLabel("Select Semester");  id3.setBounds(**10**,**10**,**200**,**40**);  id3.setFont(**new** Font("arial",Font.BOLD,**20**));  add(id3);  comboBox\_2 = **new** JComboBox();  comboBox\_2.setModel(**new** DefaultComboBoxModel(**new** String[] { "1st", "2nd", "3rd", "4th", "5th", "6th", "7th", "8th" }));  comboBox\_2.setFont(**new** Font("opensans", Font.BOLD, **20**));  comboBox\_2.setForeground(Color.BLACK);  comboBox\_2.setBounds(**180**, **10**, **200**, **40**);  add(comboBox\_2);  **try**{  String q="select \* from marks where Roll\_no = '"+st+"' and semester = '"+w+"'";  Connect c1=**new** Connect();  ResultSet rs=c1.s.executeQuery(q);  **while**(rs.next()){  d[i][j++]=rs.getString("Roll\_no");  d[i][j++]=rs.getString("subcode");  d[i][j++]=rs.getString("semester");  d[i][j++]=rs.getString("marks\_scored");  d[i][j++]=rs.getString("total\_marks");  d[i][j++]=rs.getString("percentage");  i++;  j=**0**;  }  j1=**new** JTable(d,h);  }**catch**(Exception e){}  JScrollPane sp = **new** JScrollPane(j1);  sp.setBounds(**10**,**50**,**832**,**200**);  add(sp);      **try**{  String q1="select subcode,marks\_scored,total\_marks from marks where Roll\_no = '"+st+"' and semester = '"+w+"' order by subcode";  Connect c2=**new** Connect();  ResultSet rs1=c2.s.executeQuery(q1);  **while**(rs1.next()) {  p = p + rs1.getInt(**2**);  q = q + rs1.getInt(**3**);  }    }**catch**(Exception e){  System.out.println(e);  }  frac = (p\***100.00f**/q);  **float** roundOff = (**float**) (Math.round(frac \* **100.0**) / **100.0**);  m = Float.toString(roundOff);  l2 = **new** JLabel(m+"%");  l2.setBounds(**300**,**250**,**150**,**30**);  l2.setFont(**new** Font("opensans",Font.BOLD,**20**));  l2.setVisible(**true**);  add(l2);      l1 = **new** JLabel("Semester Percentage");  l1.setBounds(**10**,**250**,**300**,**30**);  l1.setFont(**new** Font("opensans",Font.BOLD,**20**));  l1.setVisible(**true**);  add(l1);        b1 =**new** JButton("Go");  b1.setBackground(**new** Color(**59**, **89**, **182**));  b1.setBounds(**600**,**10**,**100**,**40**);  add(b1);  b1.addActionListener(**this**);    b2=**new** JButton("Cancel");  b2.setBackground(**new** Color(**59**, **89**, **182**));  b2.setBounds(**700**,**10**,**100**,**40**);  add(b2);  b2.addActionListener(**this**);    }  **public** **void** **actionPerformed**(ActionEvent ae){  **if**(ae.getSource() == b1) {  **try**{  String st = StudentLogin.t1.getText();  String w = (String) comboBox\_2.getSelectedItem();  **new** **MyResult**(st,w).setVisible(**true**);  setVisible(**false**);      }**catch**(Exception e){  JOptionPane.showMessageDialog(**null**,"Data not found");  }  }  **else** **if**(ae.getSource() == b2) {  setVisible(**false**);  String w = StudentLogin.t1.getText();  **new** **StudentFrame**(w).setVisible(**true**);  }  }  **public** **static** **void** **main**(String args[]) {  **new** **MyResult**("st","w").setVisible(**true**);  }  } |

16) Display all students registered

Graphical user interface, text, application, email

Description automatically generated

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| **package** ums;  **import** **java.awt.\***;  **import** **java.awt.event.\***;  **import** **javax.swing.\***;  **import** **java.sql.\***;  **@SuppressWarnings**("serial")  **public** **class** **StudentDetails** **extends** JFrame **implements** ActionListener {  JLabel l1,l2,l3;  JTable t1;  JButton b1,b2,b3,b4;  JTextField t2;  String x[] = {"Roll\_no", "First\_name", "Last\_name", "Father\_name", "Date\_of\_birth", "Phone\_number", "Email", "Address", "Class\_10", "Class\_12", "Degree", "Branch", "aadhar"};  String y[][] = **new** String[**20**][**15**];  **int** i=**0**, j=**0**;  StudentDetails(){  **super**("Student Details");  setSize(**1250**,**720**);  setLocationRelativeTo(**null**);  setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);  setLayout(**null**);    l1 = **new** JLabel("Enter roll number to delete Student: ");  l1.setBounds(**50**,**400**,**400**,**40**);  l1.setFont(**new** Font("opensans",Font.BOLD,**20**));  add(l1);    t2 = **new** JTextField();  t2.setBounds(**450**,**400**,**200**,**40**);  t2.setFont(**new** Font("opensans",Font.BOLD,**20**));  add(t2);    b1 = **new** JButton("Delete");  b1.setBackground(**new** Color(**59**, **89**, **182**));  b1.setFont(**new** Font("opensans",Font.BOLD,**20**));  b1.setBounds(**700**, **400**, **100** ,**40**);  add(b1);      b2 = **new** JButton("Add Student");  b2.setBackground(**new** Color(**59**, **89**, **182**));  b2.setFont(**new** Font("opensans",Font.BOLD,**20**));  b2.setBounds(**50**, **500**, **200** ,**70**);  add(b2);    b3 = **new** JButton("Update Student");  b3.setBackground(**new** Color(**59**, **89**, **182**));  b3.setFont(**new** Font("opensans",Font.BOLD,**20**));  b3.setBounds(**350**, **500**, **200** ,**70**);  add(b3);    b4 = **new** JButton("Cancel");  b4.setBackground(**new** Color(**59**, **89**, **182**));  b4.setFont(**new** Font("opensans",Font.BOLD,**20**));  b4.setBounds(**650**, **500**, **200** ,**70**);  add(b4);    b1.addActionListener(**this**);  b2.addActionListener(**this**);  b3.addActionListener(**this**);  b4.addActionListener(**this**);      **try**{  Connect c1 = **new** Connect();  String s1 = "select \* from student";  ResultSet rs = c1.s.executeQuery(s1);  **while**(rs.next()){  y[i][j++]=rs.getString("Roll\_no");  y[i][j++]=rs.getString("First\_name");  y[i][j++]=rs.getString("Last\_name");  y[i][j++]=rs.getString("Father\_name");  y[i][j++]=rs.getString("Date\_of\_birth");  y[i][j++]=rs.getString("Phone\_number");  y[i][j++]=rs.getString("Email");  y[i][j++]=rs.getString("Address");  y[i][j++]=rs.getString("Class\_10");  y[i][j++]=rs.getString("Class\_12");  y[i][j++]=rs.getString("Degree");  y[i][j++]=rs.getString("Branch");  y[i][j++]=rs.getString("aadhar");  i++;  j=**0**;  }  t1 = **new** JTable(y,x);    }**catch**(Exception e){  e.printStackTrace();  }    JScrollPane sp = **new** JScrollPane(t1);  sp.setBounds(**20**,**20**,**1200**,**330**);  add(sp);    getContentPane().setBackground(Color.WHITE);    b1.addActionListener(**this**);  }  **public** **void** **actionPerformed**(ActionEvent ae){    Connect c1 = **new** Connect();    **if**(ae.getSource() == b1){  **try**{  String a = t2.getText();  String q = "delete from student where Roll\_no = '"+a+"'";  c1.s.executeUpdate(q);  **this**.setVisible(**false**);  **new** **StudentDetails**().setVisible(**true**);  }**catch**(Exception e){}    }**else** **if**(ae.getSource() == b2){  **new** **AddStudent**().f.setVisible(**true**);  **this**.setVisible(**false**);  }**else** **if**(ae.getSource() == b3){  **new** **UpdateStudent**().f.setVisible(**true**);  **this**.setVisible(**false**);  }**else** **if**(ae.getSource() == b4){  **new** **Mainframe**().setVisible(**true**);  **this**.setVisible(**false**);  }  }  **public** **static** **void** **main**(String[] args){  **new** **StudentDetails**().setVisible(**true**);  }  } |

17) Display all teachers registered

Graphical user interface, text, application

Description automatically generated

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| **package** ums;  **import** **java.awt.\***;  **import** **java.awt.event.\***;  **import** **javax.swing.\***;  **import** **java.sql.\***;  **@SuppressWarnings**("serial")  **public** **class** **TeacherDeatails** **extends** JFrame **implements** ActionListener {  JLabel l1,l2,l3;  JTable t1;  JButton b1,b2,b3,b4;  JTextField t2;  String x[] = {"Faculty\_ID", "First\_name", "Last\_name", "Father\_name", "Date\_of\_birth", "Phone\_number", "Email", "Address", "Department", "Subject", "marital\_status", "aadhar"};  String y[][] = **new** String[**20**][**15**];  **int** i=**0**, j=**0**;  TeacherDeatails(){  **super**("Teacher Details");  setSize(**1250**,**720**);  setLocationRelativeTo(**null**);  setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);  setLayout(**null**);    l1 = **new** JLabel("Enter Faculty\_ID to delete Teacher: ");  l1.setBounds(**50**,**400**,**400**,**40**);  l1.setFont(**new** Font("opensans",Font.BOLD,**20**));  add(l1);    t2 = **new** JTextField();  t2.setBounds(**450**,**400**,**200**,**40**);  t2.setFont(**new** Font("opensans",Font.BOLD,**20**));  add(t2);    b1 = **new** JButton("Delete");  b1.setBackground(**new** Color(**59**, **89**, **182**));  b1.setFont(**new** Font("opensans",Font.BOLD,**20**));  b1.setBounds(**700**, **400**, **100** ,**40**);  add(b1);      b2 = **new** JButton("Add Teacher");  b2.setBackground(**new** Color(**59**, **89**, **182**));  b2.setFont(**new** Font("opensans",Font.BOLD,**20**));  b2.setBounds(**50**, **500**, **200** ,**70**);  add(b2);    b3 = **new** JButton("Update Teacher");  b3.setBackground(**new** Color(**59**, **89**, **182**));  b3.setFont(**new** Font("opensans",Font.BOLD,**20**));  b3.setBounds(**400**, **500**, **200** ,**70**);  add(b3);    b4 = **new** JButton("Cancel");  b4.setBackground(**new** Color(**59**, **89**, **182**));  b4.setFont(**new** Font("opensans",Font.BOLD,**20**));  b4.setBounds(**650**, **500**, **200** ,**70**);  add(b4);    b1.addActionListener(**this**);  b2.addActionListener(**this**);  b3.addActionListener(**this**);  b4.addActionListener(**this**);      **try**{  Connect c1 = **new** Connect();  String s1 = "select \* from teacher";  ResultSet rs = c1.s.executeQuery(s1);  **while**(rs.next()){  y[i][j++]=rs.getString("Faculty\_ID");  y[i][j++]=rs.getString("First\_name");  y[i][j++]=rs.getString("Last\_name");  y[i][j++]=rs.getString("Father\_name");  y[i][j++]=rs.getString("Date\_of\_birth");  y[i][j++]=rs.getString("Phone\_number");  y[i][j++]=rs.getString("Email");  y[i][j++]=rs.getString("Address");  y[i][j++]=rs.getString("Department");  y[i][j++]=rs.getString("Subject");  y[i][j++]=rs.getString("marital\_status");  y[i][j++]=rs.getString("aadhar");  i++;  j=**0**;  }  t1 = **new** JTable(y,x);    }**catch**(Exception e){  e.printStackTrace();  }    JScrollPane sp = **new** JScrollPane(t1);  sp.setBounds(**20**,**20**,**1200**,**330**);  add(sp);    getContentPane().setBackground(Color.WHITE);    b1.addActionListener(**this**);  }  **public** **void** **actionPerformed**(ActionEvent ae){    Connect c1 = **new** Connect();    **if**(ae.getSource() == b1){  **try**{  String a = t2.getText();  String q = "delete from teacher where Faculty\_ID = '"+a+"'";  c1.s.executeUpdate(q);  **this**.setVisible(**false**);  **new** **StudentDetails**().setVisible(**true**);  }**catch**(Exception e){}    }**else** **if**(ae.getSource() == b2){  **new** **AddTeacher**().f.setVisible(**true**);  **this**.setVisible(**false**);  }**else** **if**(ae.getSource() == b3){  **new** **UpdateTeacher**().f.setVisible(**true**);  **this**.setVisible(**false**);  }**else** **if**(ae.getSource() == b4){  **new** **Mainframe**().setVisible(**true**);  **this**.setVisible(**false**);  }  }  **public** **static** **void** **main**(String[] args){  **new** **TeacherDeatails**().setVisible(**true**);  }  } |

18) Update student’s details

Graphical user interface, application

Description automatically generated

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| **package** ums;  **import** **java.awt.\***;  **import** **javax.swing.\***;  **import** **java.awt.event.\***;  **public** **class** **UpdateStudent** **implements** ActionListener {  JFrame f;  JLabel id1,id2,id3,id4,id5,id6,id7,id8,id9,id10,id11,id12,id13,id14;  JTextField t1,t2,t3,t4,t5,t6,t7,t8,t9,t10,t11;  JButton b1,b2;  **@SuppressWarnings**("rawtypes")  JComboBox c1,c2;    **@SuppressWarnings**({ "rawtypes", "unchecked" })  **public** **UpdateStudent**() {  f = **new** JFrame("Update Student");  f.setBackground(Color.white);  f.setLayout(**null**);  f.setSize(**1080**,**650**);  f.setLocationRelativeTo(**null**);  f.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);  id1=**new** JLabel();  id1.setBounds(**0**,**0**,**1080**,**650**);  id1.setLayout(**null**);  ImageIcon img = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/sback.jpg"));  Image i3 = img.getImage().getScaledInstance(**1080**, **650**,Image.SCALE\_DEFAULT);  ImageIcon icc3 = **new** ImageIcon(i3);  id1.setIcon(icc3);  id2 = **new** JLabel("Update Student Details");  id2.setBounds(**300**,**30**,**500**,**50**);  id2.setFont(**new** Font("arial",Font.BOLD,**40**));  id2.setForeground(Color.black);  id1.add(id2);  f.add(id1);  id13= **new** JLabel("Enter Roll No. of the student you want to update");  id13.setBounds(**50**,**100**,**750**,**40**);  id13.setFont(**new** Font("arial",Font.BOLD,**25**));  id1.add(id13);  t11=**new** JTextField();  t11.setBounds(**630**,**100**,**150**,**40**);  t11.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(t11);    id3 = **new** JLabel("First Name");  id3.setBounds(**50**,**200**,**200**,**40**);  id3.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(id3);  t1=**new** JTextField();  t1.setBounds(**160**,**200**,**200**,**40**);  t1.setFont(**new** Font("arial",Font.PLAIN,**20**));  id1.add(t1);    id4 = **new** JLabel("Last Name");  id4.setBounds(**380**,**200**,**200**,**40**);  id4.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(id4);  t2=**new** JTextField();  t2.setBounds(**490**,**200**,**200**,**40**);  t2.setFont(**new** Font("arial",Font.PLAIN,**20**));  id1.add(t2);      id5 = **new** JLabel("Father's Name");  id5.setBounds(**700**,**200**,**200**,**40**);  id5.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(id5);  t3=**new** JTextField();  t3.setBounds(**850**,**200**,**200**,**40**);  t3.setFont(**new** Font("arial",Font.PLAIN,**20**));  id1.add(t3);    id6 = **new** JLabel("DOB(yyyy-mm-dd)");  id6.setBounds(**50**,**250**,**200**,**40**);  id6.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(id6);  t4=**new** JTextField();  t4.setBounds(**230**,**250**,**200**,**40**);  t4.setFont(**new** Font("arial",Font.PLAIN,**20**));  id1.add(t4);    id7= **new** JLabel("Email ID");  id7.setBounds(**470**,**250**,**100**,**40**);  id7.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(id7);  t5=**new** JTextField();  t5.setBounds(**560**,**250**,**490**,**40**);  t5.setFont(**new** Font("arial",Font.PLAIN,**20**));  id1.add(t5);    id8= **new** JLabel("Address");  id8.setBounds(**50**,**300**,**100**,**40**);  id8.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(id8);  t6=**new** JTextField();  t6.setBounds(**140**,**300**,**290**,**40**);  t6.setFont(**new** Font("arial",Font.PLAIN,**20**));  id1.add(t6);    id9= **new** JLabel("Phone");  id9.setBounds(**50**,**350**,**100**,**40**);  id9.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(id9);  t7=**new** JTextField();  t7.setBounds(**140**,**350**,**290**,**40**);  t7.setFont(**new** Font("arial",Font.PLAIN,**20**));  id1.add(t7);    id10= **new** JLabel("Class 10th(%)");  id10.setBounds(**470**,**300**,**150**,**40**);  id10.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(id10);  t8=**new** JTextField();  t8.setBounds(**610**,**300**,**130**,**40**);  t8.setFont(**new** Font("arial",Font.PLAIN,**20**));  id1.add(t8);  id11= **new** JLabel("Class 12th(%)");  id11.setBounds(**780**,**300**,**150**,**40**);  id11.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(id11);  t9=**new** JTextField();  t9.setBounds(**920**,**300**,**130**,**40**);  t9.setFont(**new** Font("arial",Font.PLAIN,**20**));  id1.add(t9);    id12= **new** JLabel("Aadhar No");  id12.setBounds(**470**,**350**,**100**,**40**);  id12.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(id12);  t10=**new** JTextField();  t10.setBounds(**580**,**350**,**200**,**40**);  t10.setFont(**new** Font("arial",Font.PLAIN,**20**));  id1.add(t10);    id13=**new** JLabel("Course");  id13.setBounds(**50**,**400**,**150**,**40**);  id13.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(id13);  String course[] = {"B.Tech","M.Tech","B.Tech-M.Tech","M.Sc","Ph.D"};  c1 = **new** JComboBox(course);  c1.setBackground(Color.WHITE);  c1.setFont(**new** Font("arial",Font.PLAIN,**20**));  c1.setBounds(**120**,**400**,**200**,**40**);  id1.add(c1);  id14=**new** JLabel("Branch");  id14.setBounds(**350**,**400**,**150**,**40**);  id14.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(id14);  String branch[] = {"Communication and Computer Engineering","Computer Science and Engineering","Electronics and Communication Engineering","Mechanical Engineering"};  c2 = **new** JComboBox(branch);  c2.setBackground(Color.WHITE);  c2.setFont(**new** Font("arial",Font.PLAIN,**20**));  c2.setBounds(**420**,**400**,**300**,**40**);  id1.add(c2);    b1 = **new** JButton("Submit");  b1.setBackground(**new** Color(**59**, **89**, **182**));  b1.setBounds(**730**,**500**,**120**,**50**);  id1.add(b1);  b2=**new** JButton("Cancel");  b2.setBackground(**new** Color(**59**, **89**, **182**));  b2.setBounds(**850**,**500**,**120**,**50**);  id1.add(b2);    b1.addActionListener(**this**);  b2.addActionListener(**this**);      }    **public** **void** **actionPerformed**(ActionEvent ae){      String fname = t1.getText();  String lname = t2.getText();  String fa\_name = t3.getText();  String dob = t4.getText();  String eid = t5.getText();  String addr = t6.getText();  String ph = t7.getText();  String cx = t8.getText();  String cxii = t9.getText();  String aadhar = t10.getText();  String roll\_no = t11.getText();  String cour = (String)c1.getSelectedItem();  String bran = (String)c2.getSelectedItem();    **if**(ae.getSource() == b1){  **try**{  Connect cc = **new** Connect();  String q = "update student set First\_name = '"+fname+"',Last\_name='"+lname+"',Father\_name='"+fa\_name+"',Date\_of\_birth='"+dob+"',Phone\_number='"+ph+"',Email='"+eid+"',Address='"+addr+"',Class\_10='"+cx+"',Class\_12='"+cxii+"',Degree='"+cour+"',Branch='"+bran+"',aadhar='"+aadhar+"' where Roll\_no='"+roll\_no+"'";  cc.s.executeUpdate(q);  JOptionPane.showMessageDialog(**null**,"Student Details Updated Successfully");  f.setVisible(**false**);  }**catch**(Exception ee){  System.out.println("The error is:"+ee);  }  }**else** **if**(ae.getSource() == b2){  f.setVisible(**false**);  **new** **Mainframe**().setVisible(**true**);    }  }  **public** **static** **void** **main**(String[ ] arg){  **new** **UpdateStudent**().f.setVisible(**true**);  }  } |

19) Update teacher’s details

Graphical user interface, application

Description automatically generated

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| **package** ums;  **import** **java.awt.\***;  **import** **javax.swing.\***;  **import** **java.awt.event.\***;  **import** **java.sql.ResultSet**;  **public** **class** **UpdateTeacher** **implements** ActionListener{  JFrame f;  JLabel id1,id2,id3,id4,id5,id6,id7,id8,id9,id10,id11,id12,id13,id14;  JTextField t1,t2,t3,t4,t5,t6,t7,t8,t9,t10,t11;  JButton b1,b2;  **@SuppressWarnings**("rawtypes")  JComboBox c1,c2,c3;  Choice c4;    **@SuppressWarnings**({ "rawtypes", "unchecked" })  **public** **UpdateTeacher**() {  f = **new** JFrame("Update Teacher");  f.setBackground(Color.white);  f.setLayout(**null**);  f.setSize(**1080**,**650**);  f.setLocationRelativeTo(**null**);  f.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);  id1=**new** JLabel();  id1.setBounds(**0**,**0**,**1080**,**650**);  id1.setLayout(**null**);  ImageIcon img = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/sback.jpg"));  Image i3 = img.getImage().getScaledInstance(**1080**, **650**,Image.SCALE\_DEFAULT);  ImageIcon icc3 = **new** ImageIcon(i3);  id1.setIcon(icc3);  id2 = **new** JLabel("Update Teacher Details");  id2.setBounds(**300**,**30**,**500**,**50**);  id2.setFont(**new** Font("arial",Font.BOLD,**40**));  id2.setForeground(Color.black);  id1.add(id2);  f.add(id1);  id13= **new** JLabel("Enter FacultyID of the teacher you want to update");  id13.setBounds(**50**,**100**,**750**,**40**);  id13.setFont(**new** Font("arial",Font.BOLD,**25**));  id1.add(id13);  t11=**new** JTextField();  t11.setBounds(**650**,**100**,**150**,**40**);  t11.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(t11);      id3 = **new** JLabel("First Name");  id3.setBounds(**50**,**200**,**200**,**40**);  id3.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(id3);  t1=**new** JTextField();  t1.setBounds(**160**,**200**,**200**,**40**);  t1.setFont(**new** Font("arial",Font.PLAIN,**20**));  id1.add(t1);    id4 = **new** JLabel("Last Name");  id4.setBounds(**380**,**200**,**200**,**40**);  id4.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(id4);  t2=**new** JTextField();  t2.setBounds(**490**,**200**,**200**,**40**);  t2.setFont(**new** Font("arial",Font.PLAIN,**20**));  id1.add(t2);      id5 = **new** JLabel("Father's Name");  id5.setBounds(**700**,**200**,**200**,**40**);  id5.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(id5);  t3=**new** JTextField();  t3.setBounds(**850**,**200**,**200**,**40**);  t3.setFont(**new** Font("arial",Font.PLAIN,**20**));  id1.add(t3);    id6 = **new** JLabel("DOB(yyyy-mm-dd)");  id6.setBounds(**50**,**250**,**200**,**40**);  id6.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(id6);  t4=**new** JTextField();  t4.setBounds(**230**,**250**,**200**,**40**);  t4.setFont(**new** Font("arial",Font.PLAIN,**20**));  id1.add(t4);    id7= **new** JLabel("Email ID");  id7.setBounds(**470**,**250**,**100**,**40**);  id7.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(id7);  t5=**new** JTextField();  t5.setBounds(**560**,**250**,**490**,**40**);  t5.setFont(**new** Font("arial",Font.PLAIN,**20**));  id1.add(t5);    id8= **new** JLabel("Address");  id8.setBounds(**50**,**300**,**100**,**40**);  id8.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(id8);  t6=**new** JTextField();  t6.setBounds(**140**,**300**,**490**,**40**);  t6.setFont(**new** Font("arial",Font.PLAIN,**20**));  id1.add(t6);    id9= **new** JLabel("Phone");  id9.setBounds(**50**,**350**,**100**,**40**);  id9.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(id9);  t7=**new** JTextField();  t7.setBounds(**140**,**350**,**290**,**40**);  t7.setFont(**new** Font("arial",Font.PLAIN,**20**));  id1.add(t7);    id10=**new** JLabel("Marital Status");  id10.setBounds(**450**,**350**,**150**,**40**);  id10.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(id10);  String status[] = {"Married","Unmarried"};  c3 = **new** JComboBox(status);  c3.setBackground(Color.WHITE);  c3.setFont(**new** Font("arial",Font.PLAIN,**20**));  c3.setBounds(**600**,**350**,**200**,**40**);  id1.add(c3);    id12= **new** JLabel("Aadhar No");  id12.setBounds(**670**,**300**,**100**,**40**);  id12.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(id12);  t10=**new** JTextField();  t10.setBounds(**780**,**300**,**270**,**40**);  t10.setFont(**new** Font("arial",Font.PLAIN,**20**));  id1.add(t10);      id13=**new** JLabel("Subject");  id13.setBounds(**50**,**400**,**150**,**40**);  id13.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(id13);  c1 = **new** JComboBox();  **try**{  Connect c = **new** Connect();  ResultSet rs = c.s.executeQuery("select \* from subject");  **while**(rs.next()){  c1.addItem(rs.getString("subcode"));    }  }  **catch**(Exception e){ };  c1.setFont(**new** Font("arial",Font.PLAIN,**20**));  c1.setBounds(**120**,**400**,**200**,**40**);  id1.add(c1);  id14=**new** JLabel("Department");  id14.setBounds(**350**,**400**,**150**,**40**);  id14.setFont(**new** Font("arial",Font.BOLD,**20**));  id1.add(id14);  String branch[] = {"Computer Science Department","Electronics and Communication Department","Mechanical Department","Physics annd Maths Department"};  c2 = **new** JComboBox(branch);  c2.setBackground(Color.WHITE);  c2.setFont(**new** Font("arial",Font.PLAIN,**20**));  c2.setBounds(**480**,**400**,**450**,**40**);  id1.add(c2);    b1 = **new** JButton("Submit");  b1.setBackground(**new** Color(**59**, **89**, **182**));  b1.setBounds(**730**,**500**,**120**,**50**);  id1.add(b1);  b2=**new** JButton("Cancel");  b2.setBackground(**new** Color(**59**, **89**, **182**));  b2.setBounds(**850**,**500**,**120**,**50**);  id1.add(b2);    b1.addActionListener(**this**);  b2.addActionListener(**this**);      }    **public** **void** **actionPerformed**(ActionEvent ae){      String fname = t1.getText();  String lname = t2.getText();  String fa\_name = t3.getText();  String dob = t4.getText();  String eid = t5.getText();  String addr = t6.getText();  String ph = t7.getText();  String aadhar = t10.getText();  String roll\_no = t11.getText();  String cour = (String)c1.getSelectedItem();  String bran = (String)c2.getSelectedItem();  String mari = (String)c3.getSelectedItem();    **if**(ae.getSource() == b1){  **try**{  Connect cc = **new** Connect();  String q = "update teacher set First\_name='"+fname+"',Last\_name='"+lname+"',Father\_name='"+fa\_name+"',Date\_of\_birth='"+dob+"',Phone\_number='"+ph+"',Email='"+eid+"',Address='"+addr+"',Department='"+bran+"',Subject='"+cour+"',marital\_status='"+mari+"',aadhar'"+aadhar+"' where Faculty\_ID='"+roll\_no+"'";  cc.s.executeUpdate(q);  JOptionPane.showMessageDialog(**null**,"Teacher Details Updated Successfully");  f.setVisible(**false**);  }**catch**(Exception ee){  System.out.println("The error is:"+ee);  }  }**else** **if**(ae.getSource() == b2){  f.setVisible(**false**);  **new** **Mainframe**().setVisible(**true**);    }  }  **public** **static** **void** **main**(String[ ] arg){  **new** **UpdateTeacher**().f.setVisible(**true**);  }  } |

20) View your attendance

Graphical user interface, text

Description automatically generated

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| **package** ums;  **import** **java.sql.\***;  **import** **javax.swing.\***;  **import** **java.awt.Choice**;  **import** **java.awt.Color**;  **import** **java.awt.Font**;  **import** **java.awt.event.\***;  **@SuppressWarnings**("serial")  **public** **class** **MyAttendance** **extends** JFrame **implements** ActionListener {  JTable j1;  JLabel l1,l2,id3;  JButton b1,b2;  JTextField t3,t4;  String h[]={"Roll Number","Subject","DateTime","Attendance"};  String d[][]=**new** String[**50**][**4**];  String m;  **int** i=**0**,j=**0**,p,q=**0**;  **float** frac;  Choice c2;    MyAttendance(String st,String w){  **super**("My Attendence");  setSize(**640**,**360**);  setLocationRelativeTo(**null**);  setBackground(Color.WHITE);  setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);  setLayout(**null**);    id3 = **new** JLabel("Select Subject");  id3.setBounds(**10**,**10**,**150**,**40**);  id3.setFont(**new** Font("arial",Font.BOLD,**20**));  add(id3);  c2 = **new** Choice();  **try**{  Connect c = **new** Connect();  ResultSet rs = c.s.executeQuery("select \* from subject");  **while**(rs.next()){  c2.add(rs.getString("subcode"));  }    }**catch**(Exception e){ }  **try**{  String q="select \* from student\_attendance where Roll\_no = '"+st+"' and subcode = '"+w+"'";  Connect c1=**new** Connect();  ResultSet rs=c1.s.executeQuery(q);  **while**(rs.next()){  d[i][j++]=rs.getString("Roll\_no");  d[i][j++]=rs.getString("subcode");  d[i][j++]=rs.getString("DATE");  d[i][j++]=rs.getString("P\_A");  i++;  j=**0**;  }  j1=**new** JTable(d,h);  }**catch**(Exception e){}  JScrollPane sp = **new** JScrollPane(j1);  sp.setBounds(**10**,**50**,**620**,**200**);  add(sp);    c2.setBounds(**200**,**10**,**150**,**40**);  c2.setFont(**new** Font("arial",Font.PLAIN,**20**));  add(c2);  **try**{  String q1="select P\_A,count(\*) as cnt from student\_attendance where Roll\_no = '"+st+"' and subcode = '"+w+"' group by P\_A order by P\_A";  Connect c2=**new** Connect();  ResultSet rs1=c2.s.executeQuery(q1);  **while**(rs1.next()) {  p = rs1.getInt(**2**);  q = q+p;  }    }**catch**(Exception e){  System.out.println(e);  }  frac = (p\***100.00f**/q);  **float** roundOff = (**float**) (Math.round(frac \* **100.0**) / **100.0**);  m = Float.toString(roundOff);  l2 = **new** JLabel(m+"%");  l2.setBounds(**300**,**250**,**150**,**30**);  l2.setFont(**new** Font("opensans",Font.BOLD,**20**));  l2.setVisible(**true**);  add(l2);      l1 = **new** JLabel("Attendance Percentage");  l1.setBounds(**10**,**250**,**300**,**30**);  l1.setFont(**new** Font("opensans",Font.BOLD,**20**));  l1.setVisible(**true**);  add(l1);        b1 =**new** JButton("Go");  b1.setBackground(**new** Color(**59**, **89**, **182**));  b1.setBounds(**400**,**10**,**100**,**40**);  add(b1);  b1.addActionListener(**this**);    b2=**new** JButton("Cancel");  b2.setBackground(**new** Color(**59**, **89**, **182**));  b2.setBounds(**500**,**10**,**100**,**40**);  add(b2);  b2.addActionListener(**this**);      }  **public** **void** **actionPerformed**(ActionEvent ae){  **if**(ae.getSource() == b1) {  **try**{  String st = StudentLogin.t1.getText();  String w = c2.getSelectedItem();  **new** **MyAttendance**(st,w).setVisible(**true**);  setVisible(**false**);      }**catch**(Exception e){JOptionPane.showMessageDialog(**null**,"Data not found");}  }  **else** **if**(ae.getSource() == b2) {  setVisible(**false**);  String w = StudentLogin.t1.getText();  **new** **StudentFrame**(w).setVisible(**true**);  }  }    **public** **static** **void** **main**(String args[]) {  **new** **MyAttendance**("st","w").setVisible(**true**);  }  } |

21) Change Student password

A picture containing text, electronics, screenshot, computer

Description automatically generated

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| **package** ums;  **import** **java.awt.\***;  **import** **java.awt.event.\***;  **import** **javax.swing.\***;  **public** **class** **StudentPassword** **implements** ActionListener{    JFrame f;  JLabel id1,id2,id3,id4;  JTextField t1,t2;  JButton b1,b2;      **public** **StudentPassword**() {  f = **new** JFrame("Change Password");  f.setLayout(**null**);  f.setSize(**640**,**360**);  f.setLocationRelativeTo(**null**);  f.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);  id1=**new** JLabel();  id1.setBounds(**0**,**0**,**640**,**360**);  id1.setLayout(**null**);  ImageIcon img = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/sback.jpg"));  Image i3 = img.getImage().getScaledInstance(**640**, **360**,Image.SCALE\_DEFAULT);  ImageIcon icc3 = **new** ImageIcon(i3);  id1.setIcon(icc3);    id2 = **new** JLabel("Enter New Password");  id2.setBounds(**150**,**50**,**350**,**30**);  id2.setFont(**new** Font("opensans",Font.BOLD,**30**));  id2.setForeground(Color.black);  id1.add(id2);  f.add(id1);    t2=**new** JPasswordField();  t2.setBounds(**220**,**125**,**150**,**40**);  t2.setFont(**new** Font("opensans",Font.PLAIN,**20**));  id1.add(t2);      b1 = **new** JButton("Submit");  b1.setBackground(**new** Color(**59**, **89**, **182**));  b1.setBounds(**150**,**200**,**120**,**50**);  id1.add(b1);  b2=**new** JButton("Cancel");  b2.setBackground(**new** Color(**59**, **89**, **182**));  b2.setBounds(**300**,**200**,**120**,**50**);  id1.add(b2);    b1.addActionListener(**this**);  b2.addActionListener(**this**);      }    **public** **void** **actionPerformed**(ActionEvent ae){      String sname = t2.getText();  String st = StudentLogin.t1.getText();    **if**(ae.getSource() == b1){  **try**{  Connect cc = **new** Connect();  String q = "update student set password = '"+sname+"' where Roll\_no = '"+st+"'";  cc.s.executeUpdate(q);  JOptionPane.showMessageDialog(**null**,"Password Updated");  f.setVisible(**false**);  }**catch**(Exception ee){  System.out.println("The error is:"+ee);  }  }**else** **if**(ae.getSource() == b2){  f.setVisible(**false**);  **new** **StudentFrame**(st).setVisible(**true**);    }  }  **public** **static** **void** **main**(String[ ] arg){  **new** **StudentPassword**().f.setVisible(**true**);  }  } |

22) Change Teacher Password

A picture containing text, electronics, screenshot, computer

Description automatically generated

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| **package** ums;  **import** **java.awt.\***;  **import** **java.awt.event.\***;  **import** **javax.swing.\***;  **public** **class** **TeacherPassword** **implements** ActionListener{  JFrame f;  JLabel id1,id2,id3,id4;  JTextField t1,t2;  JButton b1,b2;      **public** **TeacherPassword**() {  f = **new** JFrame("Change Password");  f.setLayout(**null**);  f.setSize(**640**,**360**);  f.setLocationRelativeTo(**null**);  f.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);  id1=**new** JLabel();  id1.setBounds(**0**,**0**,**640**,**360**);  id1.setLayout(**null**);  ImageIcon img = **new** ImageIcon(ClassLoader.getSystemResource("ums/Images/sback.jpg"));  Image i3 = img.getImage().getScaledInstance(**640**, **360**,Image.SCALE\_DEFAULT);  ImageIcon icc3 = **new** ImageIcon(i3);  id1.setIcon(icc3);    id2 = **new** JLabel("Enter New Password");  id2.setBounds(**150**,**50**,**350**,**30**);  id2.setFont(**new** Font("opensans",Font.BOLD,**30**));  id2.setForeground(Color.black);  id1.add(id2);  f.add(id1);    t2=**new** JPasswordField();  t2.setBounds(**220**,**125**,**150**,**40**);  t2.setFont(**new** Font("opensans",Font.PLAIN,**20**));  id1.add(t2);      b1 = **new** JButton("Submit");  b1.setBackground(**new** Color(**59**, **89**, **182**));  b1.setBounds(**150**,**200**,**120**,**50**);  id1.add(b1);  b2=**new** JButton("Cancel");  b2.setBackground(**new** Color(**59**, **89**, **182**));  b2.setBounds(**300**,**200**,**120**,**50**);  id1.add(b2);    b1.addActionListener(**this**);  b2.addActionListener(**this**);      }    **public** **void** **actionPerformed**(ActionEvent ae){      String sname = t2.getText();  String st = TeacherLogin.t1.getText();    **if**(ae.getSource() == b1){  **try**{  Connect cc = **new** Connect();  String q = "update teacher set password = '"+sname+"' where Faculty\_ID = '"+st+"'";  cc.s.executeUpdate(q);  JOptionPane.showMessageDialog(**null**,"Password Updated");  f.setVisible(**false**);  }**catch**(Exception ee){  System.out.println("The error is:"+ee);  }  }**else** **if**(ae.getSource() == b2){  f.setVisible(**false**);  **new** **TeacherFrame**(st).setVisible(**true**);    }  }  **public** **static** **void** **main**(String[ ] arg){  **new** **TeacherPassword**().f.setVisible(**true**);  }  } |

23) About the group

Graphical user interface, text, application

Description automatically generated

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| **package** ums;  **import** **java.awt.\***;  **import** **javax.swing.\***;  **@SuppressWarnings**("serial")  **public** **class** **AboutUs** **extends** JFrame{  JPanel contentPane;  **public** **AboutUs**() {    **super**("About Us");  setSize(**800**,**420**);  setLocationRelativeTo(**null**);    contentPane = **new** JPanel();  setContentPane(contentPane);  contentPane.setLayout(**null**);  setDefaultCloseOperation(JFrame.DISPOSE\_ON\_CLOSE);  JLabel l3 = **new** JLabel("University Mangement System");  l3.setForeground(**new** Color(**59**, **89**, **182**));  l3.setFont(**new** Font("opensans", Font.BOLD, **35**));  l3.setBounds(**50**, **15**, **600**, **55**);  contentPane.add(l3);  JLabel l6 = **new** JLabel("Developed By: ");  l6.setFont(**new** Font("opensans", Font.BOLD, **25**));  l6.setBounds(**50**, **100**, **600**, **35**);  contentPane.add(l6);  JLabel l7 = **new** JLabel("Aryan Seth (19UCC132)");  l7.setFont(**new** Font("opensans", Font.BOLD, **20**));  l7.setBounds(**50**, **150**, **600**, **34**);  contentPane.add(l7);    JLabel l8 = **new** JLabel("Dhruv Tripathi (19UCC076)");  l8.setFont(**new** Font("opensans", Font.BOLD, **20**));  l8.setBounds(**50**, **200**, **600**, **34**);  contentPane.add(l8);    JLabel l9 = **new** JLabel("Sanjana Bansal (19UCC135)");  l9.setFont(**new** Font("opensans", Font.BOLD, **20**));  l9.setBounds(**50**, **250**, **600**, **34**);  contentPane.add(l9);    JLabel l10 = **new** JLabel("Nitish Kumar Gupta (19UCC131)");  l10.setFont(**new** Font("opensans", Font.BOLD, **20**));  l10.setBounds(**50**, **300**, **600**, **34**);  contentPane.add(l10);    contentPane.setBackground(Color.WHITE);  }  **public** **static** **void** **main**(String[] args) {  **new** **AboutUs**().setVisible(**true**);  }  } |