

# **Java Institute for Advanced Technology**

# UNIT NAME=SOFTWARE APPLICATION DEVELOPMENT UNIT ID=H7E1 04 ASSIGNMENT ID=H7E1 04/AS/02

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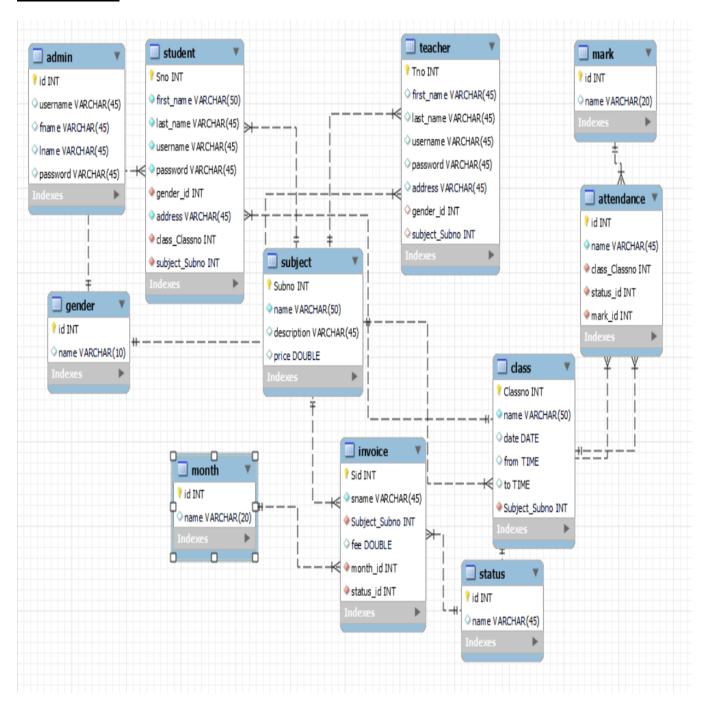








## **ER Diagram**

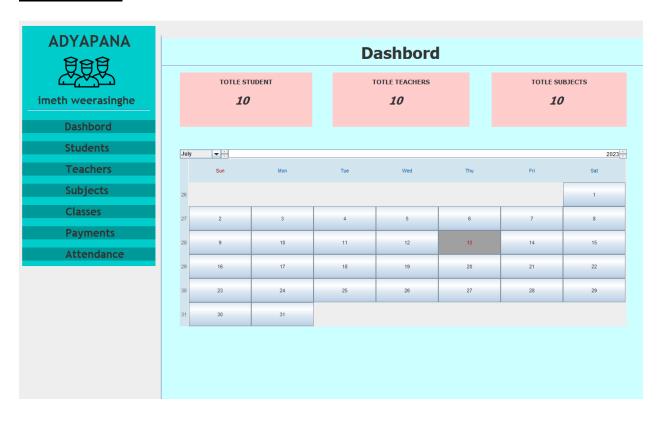


#### Sign In

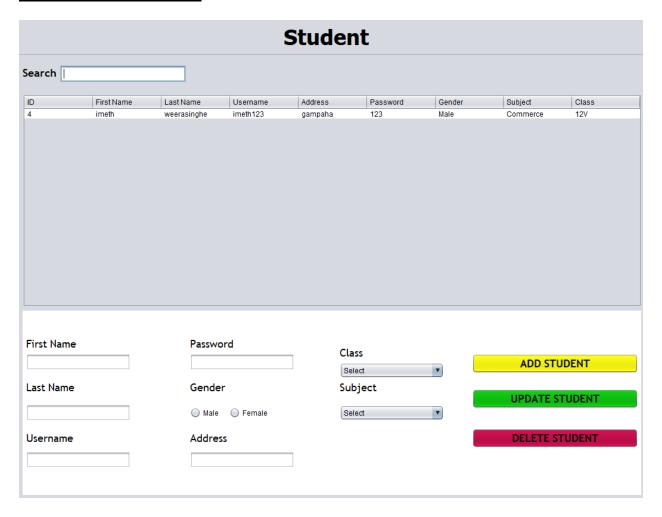
ADYAPANA INSTITUTE
Username
Passwoord
Log In

```
String username = jTextField1.getText();
    String password = String.valueOf(jPasswordField1.getPassword());
    if (username.isEmpty()) {
       JOptionPane.showMessageDialog(this, "Please enter your username", "Warning",
JOptionPane.WARNING MESSAGE);
    } else if (password.isEmpty()) {
       JOptionPane.showMessageDialog(this, "please enter your password", "Warning",
JOptionPane.WARNING_MESSAGE);
    } else {
      try {
         ResultSet resultSet = MySQL.execute("SELECT * FROM `admin` WHERE `username` = "" +
username + "' AND `password`='" + password + "'");
         if (resultSet.next()) {
           HashMap<String, String> map = new HashMap<>();
           map.put("fname", resultSet.getString("fname"));
           map.put("Iname", resultSet.getString("Iname"));
           Home home = new Home(map);
           home.setVisible(true);
           this.dispose();
```

#### Menu Main



#### **Student Registration**



## **Insert**

```
+ "VALUES(" + fname + "'," + lname + "'," + usrename + "'," + address + "'," + password + "'," + gendreid + "'," + subid + "'," + clzid + "')");
loadstudent();
reset();
} catch (Exception e) {
e.printStackTrace();
}
```

#### **Update**

```
int selectedRow = jTable1.getSelectedRow();
    if (selectedRow == -1) {
      System.out.println("Select Row");
    } else {
      String id = String.valueOf(jTable1.getValueAt(selectedRow, 0));
      String fname = jTextField1.getText();
      String Iname = jTextField2.getText();
      String username = jTextField3.getText();
      String address = jTextField4.getText();
      String password = String.valueOf(jPasswordField1.getPassword());
      String subject = String.valueOf(jComboBox2.getSelectedItem());
      String clas = String.valueOf(jComboBox1.getSelectedItem());
      ButtonModel genderSelection = buttonGroup1.getSelection();
      try {
        String genderId = genderSelection.getActionCommand();
        int subjectid = SubMap.get(subject);
        int clasid = classMap.get(clas);
```

```
MySQL.execute("UPDATE `student` SET "
        + "`first_name`="" + fname + "',"
        + "`last_name`='" + Iname + "',"
         + "`username`='" + username + "',"
        + "`password`= "" + password + "',"
        + "`address`="" + address + "","
        + "`gender_id`="" + genderId + "',"
         + "`subject_Subno`="" + subjectid + "',"
        + "`class_Classno`="" + clasid + """
        + "WHERE `Sno`="" + id + """);
    loadstudent();
    reset();
    jTable1.setEnabled(true);
    jButton3.setEnabled(true);
  } catch (Exception e) {
    e.printStackTrace();
  }
}
```

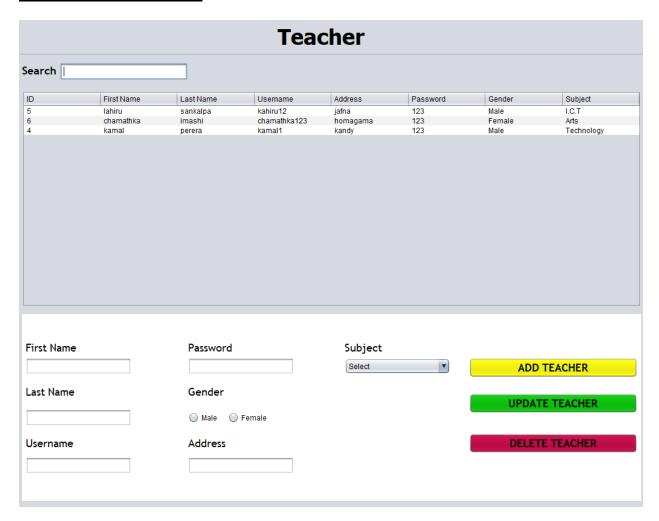
# <u>Delete</u>

```
int selectedRow = jTable1.getSelectedRow();

if (selectedRow == -1) {
    System.out.println("Please select row");
```

```
} else {
      String id = String.valueOf(jTable1.getValueAt(selectedRow, 0));
      try {
        MySQL.execute("DELETE FROM `student` WHERE `Sno`="" + id + "'");
        loadstudent();
        reset();
        jTable1.setEnabled(true);
        jButton3.setEnabled(true);
      } catch (Exception e) {
        e.printStackTrace();
      }
    }
String text = jTextField5.getText();
    loadStudent(text);
```

# **Teacher Registration**



## <u>Insert</u>

```
String fname = jTextField1.getText();
    String lname = jTextField2.getText();
    String usrename = jTextField3.getText();
    String address = jTextField4.getText();
    String password = String.valueOf(jPasswordField1.getPassword());
    String subject = String.valueOf(jComboBox1.getSelectedItem());
    ButtonModel genderSelect = buttonGroup1.getSelection();
```

## <u>Update</u>

```
int selectedRow = jTable1.getSelectedRow();

if (selectedRow == -1) {
    System.out.println("Select Row");
} else {
    String id = String.valueOf(jTable1.getValueAt(selectedRow, 0));

    String fname = jTextField1.getText();
    String lname = jTextField2.getText();
    String username = jTextField3.getText();
    String address = jTextField4.getText();
    String password = String.valueOf(jPasswordField1.getPassword());
    String subject = String.valueOf(jComboBox1.getSelectedItem());
```

```
ButtonModel genderSelection = buttonGroup1.getSelection();
try {
  String genderId = genderSelection.getActionCommand();
  int subjectid = SubMap.get(subject);
  MySQL.execute("UPDATE `teacher` SET "
      + "`first name`="" + fname + "","
      + "`last_name`='" + Iname + "',"
      + "`username`='" + username + "',"
      + "`address`="" + address + "","
      + "`password`="" + password + "',"
      + "`gender_id`="" + genderId + "',"
      + "`subject_Subno`="" + subjectid + """
      + "WHERE `Tno`="" + id + """);
  loadteacher();
  reset();
  jTable1.setEnabled(true);
  jButton3.setEnabled(true);
} catch (Exception e) {
  e.printStackTrace();
}
```

}

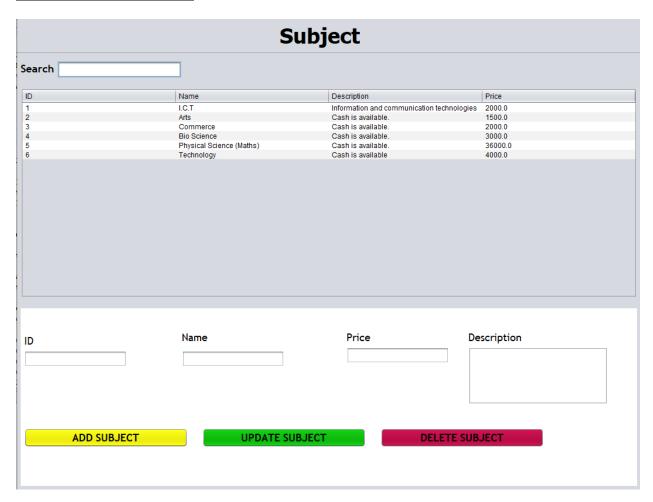
# <u>Delete</u>

```
int selectedRow = jTable1.getSelectedRow();
    if (selectedRow == -1) {
      System.out.println("Please select row");
    } else {
      String id = String.valueOf(jTable1.getValueAt(selectedRow, 0));
      try {
         MySQL.execute("DELETE FROM `teacher` WHERE `Tno`="" + id + """);
         loadteacher();
         reset();
        jTable1.setEnabled(true);
        jButton3.setEnabled(true);
      } catch (Exception e) {
         e.printStackTrace();
      }
    }
```

# **Search**

```
String text = jTextField5.getText();
loadteacher(text);
```

# **Subject Registration**



## **Insert**

```
+ "VALUES ("" + id + "","" + name + "","" + description + "","" + price + "")");
loadsubject();
reset();
} catch (Exception e) {
    e.printStackTrace();
}
```

## **Delete**

```
int selectedRow = jTable1.getSelectedRow();

if (selectedRow == -1) {

}

String id = String.valueOf(jTable1.getValueAt(selectedRow, 0));

try {

   MySQL.execute("DELETE FROM `subject` WHERE `Subno`="" + id + """);

   loadsubject();
   reset();

jTable1.setEnabled(true);
```

jButton3.setEnabled(true);

```
} catch (Exception e) {
    e.printStackTrace();
}
```

## **Update**

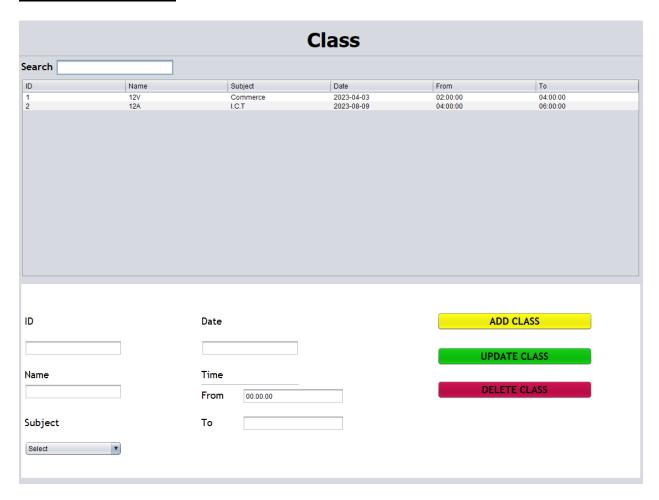
```
int selectedRow = jTable1.getSelectedRow();
    if (selectedRow == -1) {
      System.out.println("Select row");
    } else {
       String id = String.valueOf(jTable1.getValueAt(selectedRow, 0));
      //String id = jTextField1.getText();
       String name = jTextField2.getText();
       String description = jTextArea1.getText();
       String price = jTextField4.getText();
      try {
         MySQL.execute("UPDATE `subject` SET "
             + "`Subno`="" + id + "',"
             + "`name`='" + name + "',"
             + "`description`="" + description + "',"
             + "`price`= "" + price + """
             + "WHERE `Subno`='" + id + "'");
         loadsubject();
         reset();
```

```
jTable1.setEnabled(true);
jButton3.setEnabled(true);
} catch (Exception e) {
    e.printStackTrace();
}
```

# **Search**

```
String text = jTextField5.getText();
loadsubject(text);
```

# **Class Registration**



## **Insert**

```
String id = jTextField1.getText();
String name = jTextField2.getText();
String subject = String.valueOf(jComboBox1.getSelectedItem());
String day = jTextField4.getText();
String from = jTextField5.getText();
String to = jTextField6.getText();

try {
   int subid = subjectMap.get(subject);
```

## **Delete**

```
int selectedRow = jTable1.getSelectedRow();

if (selectedRow == -1) {
    System.out.println("Please select row");
} else {

    String id = String.valueOf(jTable1.getValueAt(selectedRow, 0));

    try {

        MySQL.execute("DELETE FROM `class` WHERE `Classno`="" + id + """);

        loadclass();
        reset();
        jTable1.setEnabled(true);
```

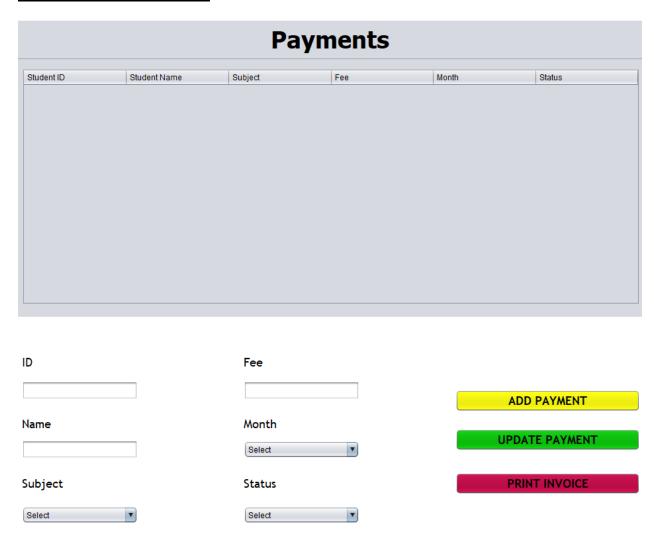
```
jButton3.setEnabled(true);
      } catch (Exception e) {
         e.printStackTrace();
      }
    }
Update
int selectRow = jTable1.getSelectedRow();
    if (selectRow == -1) {
      System.out.println("Select Row");
    } else {
      String id = String.valueOf(jTable1.getValueAt(selectRow, 0));
      String name = jTextField2.getText();
      String subject = String.valueOf(jComboBox1.getSelectedItem());
      String date = jTextField4.getText();
      String from = jTextField5.getText();
      String to = jTextField6.getText();
      try {
        int subid = subjectMap.get(subject);
        MySQL.execute("UPDATE `class` SET `Classno`="" + id + "',"
```

+ "`name`="" + name + "',"

# **Search**

```
String text = jTextField5.getText();
loadclass(text);
```

## **Payment Registration**



# <u>Insert</u>

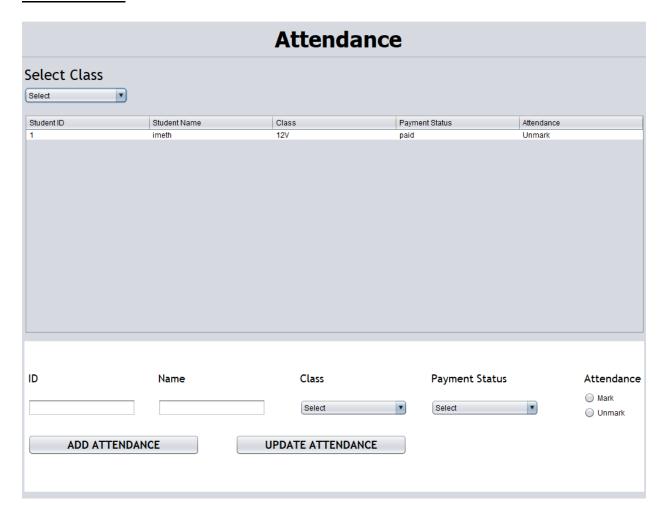
```
String sid = jTextField1.getText();
String sname = jTextField2.getText();
String fee = jTextField4.getText();
String subject = String.valueOf(jComboBox2.getSelectedItem());
String month = String.valueOf(jComboBox1.getSelectedItem());
String status = String.valueOf(jComboBox3.getSelectedItem());
```

```
try {
       int subid = SubMap.get(subject);
       int monthid = monthMap.get(month);
       int statusid = StatusMap.get(status);
       MySQL.execute("INSERT INTO "
           + "'invoice'('Sid', 'sname', 'Subject_Subno', 'fee', 'month_id', 'status_id')"
           + "VALUES("" + sid + "',"" + sname + "',"" + subid + "',"" + fee + "',"" + monthid + "',"" + statusid +
"")");
       loadinvoice();
       reset();
    } catch (Exception e) {
      e.printStackTrace();
    }
Update
int selectedRow = jTable1.getSelectedRow();
    if (selectedRow == -1) {
      System.out.println("Select Row");
    } else {
       String id = String.valueOf(jTable1.getValueAt(selectedRow, 0));
       String sid = jTextField1.getText();
       String sname = jTextField2.getText();
       String fee = jTextField4.getText();
```

```
String subject = String.valueOf(jComboBox2.getSelectedItem());
String month = String.valueOf(jComboBox1.getSelectedItem());
String status = String.valueOf(jComboBox3.getSelectedItem());
try {
  int subid = SubMap.get(subject);
  int monthid = monthMap.get(month);
  int statusid = StatusMap.get(status);
  MySQL.execute("UPDATE `invoice` SET "
      + "`Sid`="" + sid + "',"
      + "`sname`="" + sname + "","
      + "`Subject_Subno`="" + subid + "',"
      + "`fee`= "" + fee + "',"
      + "`month_id`="" + monthid + "","
      + "`status_id`='" + statusid + "',"
      + "WHERE `Sid`="" + id + """);
  loadinvoice();
  reset();
  jTable1.setEnabled(true);
  jButton3.setEnabled(true)
} catch (Exception e) {
 e.printStackTrace();
}
```

}

## **Attendance**



## **Insert**

```
String id = jTextField3.getText();
String name = jTextField4.getText();
String pstatus = String.valueOf(jComboBox2.getSelectedItem());
String clz = String.valueOf(jComboBox1.getSelectedItem());
ButtonModel attendanceSelect = buttonGroup1.getSelection();

try {
    String attendanceid = attendanceSelect.getActionCommand();
```

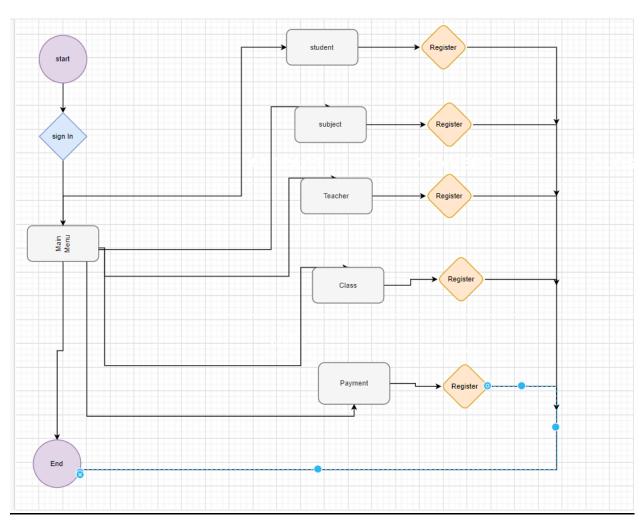
```
int psid = PstatusMap.get(pstatus);
  int clzid = classMap.get(clz);
  MySQL.execute("INSERT INTO "
      + "`attendance`(`id`,`name`,`class_Classno`,`status_id`,`mark_id`)"
      + "VALUES("" + id + "',"" + name + "',"" + clzid + "',"" + psid + "',"" + attendanceid + "')");
  loadattendance();
  reset();
} catch (Exception e) {
  e.printStackTrace();
}
```

#### **Update**

```
String id = jTextField3.getText();
    String name = jTextField4.getText();
    String pstatus = String.valueOf(jComboBox2.getSelectedItem());
    String clz = String.valueOf(jComboBox1.getSelectedItem());
    ButtonModel attendanceSelect = buttonGroup1.getSelection();
    try {
      String attendanceid = attendanceSelect.getActionCommand();
      int psid = PstatusMap.get(pstatus);
      int clzid = classMap.get(clz);
      MySQL.execute("UPDATE `attendance` SET "
             + "`id`="" + id + "","
             + "`name`='" + name + "',"
             + "`class_Classno`='" + clzid + "',"
             + "`status_id`= '" + psid + "',"
             + "`mark id`='" + attendanceid + "'"
```

```
+ "WHERE `id`="" + id + """);
loadattendance();
reset();
} catch (Exception e) {
   e.printStackTrace();
}
```

# **Business process diagram**



# Use case diagram

