

**VISVESVARAYA TECHNOLOGICAL  
UNIVERSITY**

**BELGAUM-590014**



**A DBMS Mini-Project Report**

**On**

***“STUDENT ATTENDANCE MANAGEMENT SYSTEM”***

*A Mini-project report submitted in partial fulfillment of the requirements for the award of the degree of **Bachelor of Engineering in Computer Science and Engineering** of Visvesvaraya Technological University, Belgaum.*

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**Kanakpura Road,Udayapura, Bangalore**

**2017-2018**



**DAYANADA SAGAR ACADEMY OF TECHNOLOGY AND  
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Kanakpura Road, Udayapura, Bangalore

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**CERTIFICATE**

This is to certify that the Mini-Project on Database Management System (DBMS) entitled **STUDENT ATTENDANCE MANAGEMENT SYSTEM** has been successfully carried out by **SURYA GANGARAJ K(1DT15CS115) and RAHUL M(1DT15CS091)** a bona fide students of **Dayananda sagar academy of technology and management** in partial fulfillment of the requirements for the award of degree in **Bachelor of Engineering in Computer Science and Engineering** of **Visvesvaraya Technological University, Belgaum** during academic year 2017-2018. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The mini project report has been approved as it satisfies the academic requirements in respect of project work for the said degree.

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**1:**

**2:**

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## **ABSTRACT**

Our project Student Attendance Management system is designed to automate and simplify the work done by the operations team of a College Staff. It includes maintenance of Staff details, Attendance details, Subject details. Our software has the facility to add new record, update existing record and delete an existing record and also view the details of each of these. It includes the facility to know the statistics of Staff, Subjects and Attendance .The Student Attendance Management System can be entered using a username and password. It is accessible either by an administrator ,staff or student . Administrator has access to all the functions of the adding student as well as staff . Student can only view his attendance list and his profile .Our Project interface is very user-friendly and simplifies the manual operation of a Student Attendance management.

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## CHAPTER 1

# INTRODUCTION

### 1. Background

Considering the volumes of data that needs to be tracked in a Student Attendance, it would be very difficult to manage the accuracy and quality of data manually. It would be almost impossible to get the details required in case of manual maintenance of data. The Student Attendance Management System simplifies the manual work and allows smooth administration of the operations of a Student Attendance.

### 2. Problem Definition

This project is aimed to reduce the manual work involved in data maintenance in a Student Attendance and automates the Student Attendance Management System. This project is developed mainly to simplify the manual work and allows smooth administration of the operations of a Student Attendance. The purpose of the project is to computerize the administrative operations of a Student Attendance and to develop software which is user friendly, simple, fast, and cost – effective. It deals with the collection of Staff, Subject, Attendance and Student information etc. Traditionally, it was done manually. The main function of the system is to enter and store Staff, Subject and Attendance details and retrieve these details as and when required, and also to manipulate these details meaningfully.

### 3. Motivation

**Manual System:** The system is very time consuming and lazy. This system is more prone to errors and sometimes the approaches to various problems are unstructured.

**Technical System:** With the invent of latest technology, we should update our systems which are very fast, accurate, user-friendly and reliable.

#### **4. Objective**

Main goal of this project is to simplify the manual operation of a Student Attendance with the following advantages:

1. Faster System
2. Accuracy
3. Reliability
4. Cost Effective
5. User Friendly
6. Immediate access to the data and statistics

#### **5. Scope of the project**

The project provides a very simple application which simplifies the manual work done by the operations team of Student Attendance. This application saves the data of staff, Subjects and Attendance in the database. Allows users to enter the details, update / delete the existing details. Our project allows users to view the data stored in the database and to see the statistics.



## CHAPTER 2

# REQUIREMENTS

The requirements can be broken down into 2 major categories namely hardware and software requirements. The former specifies the minimal hardware facilities expected in a system in which the project has to be run. The latter specifies the essential software needed to build and run the project.

## 2.1 Hardware Requirements

The Hardware requirements are very minimal and the program can be run on most of the machines.

- Processor - Intel 486/Pentium processor or better
- Processor Speed - 500 MHz or above
- Hard Disk - 20GB(approx.)
- RAM - 64MB or above
- Storage Space - Approx. 4MB

## 2.2 Software Requirements

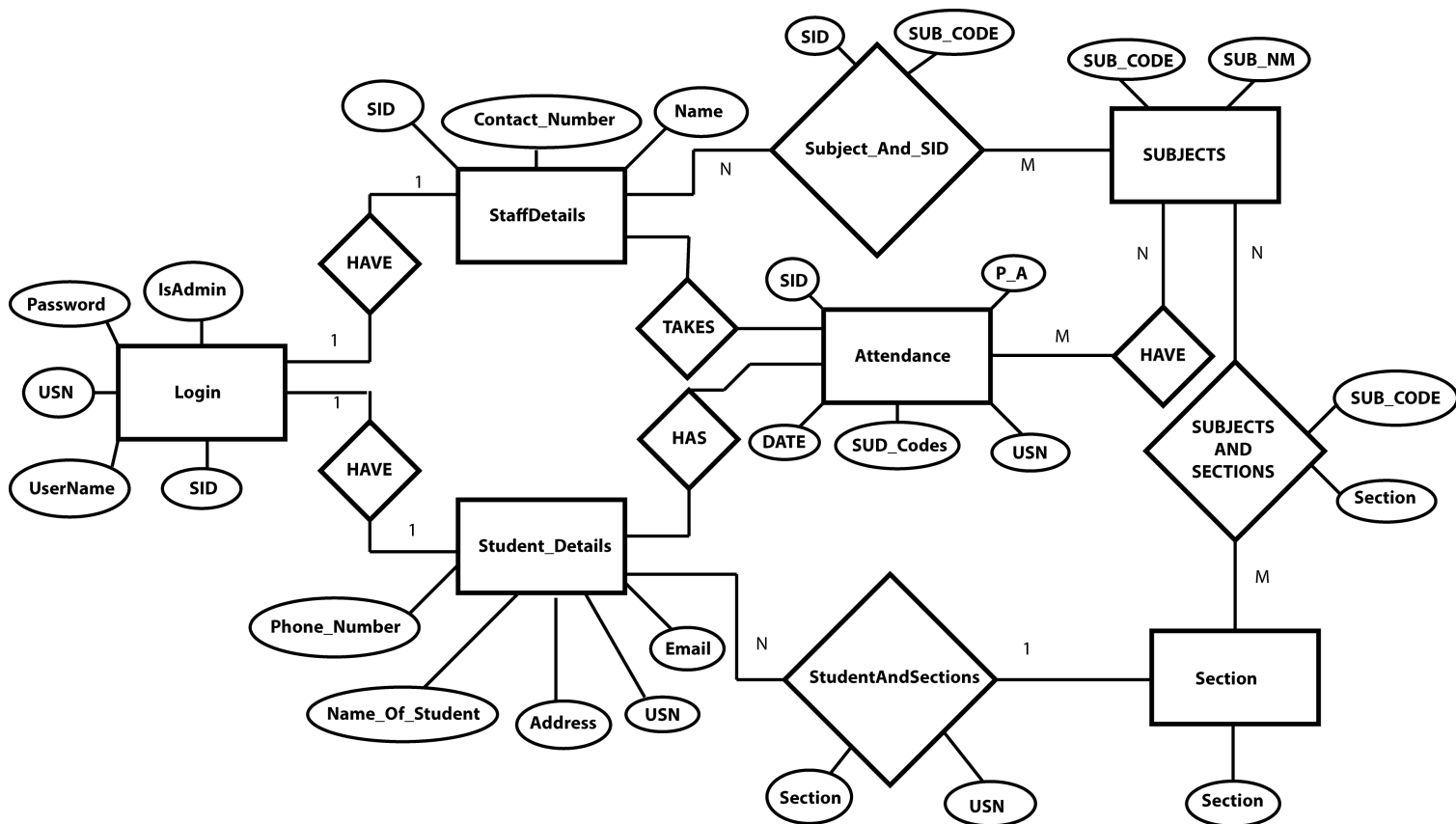
- Technology Implemented : MySQL Server
- Language Used : J2EE
- Database : My SQL
- User Interface Design : JFrames
- Web Browser : Google Chrome, Mozilla, IE8
- Software : NetBeans, MySQL Server

## CHAPTER 3

### DESIGN

#### 1. Database Design

##### 1.1. E-R Diagram



##### 1.2. Database Schema

*Database: Mini\_project*

**Table: Attendance**

| Column   | Type        | Primary key | Not Null | UQ | AI  |
|----------|-------------|-------------|----------|----|-----|
| SUB_Code | VARCHAR(20) | NO          | NO       |    |     |
| DATE     | DATETIME    | NO          | NO       |    |     |
| P_A      | TINYINT(4)  | NO          | NO       |    | YES |
| A.NO     | INT(11)     | YES         | YES      |    |     |
| USN      | VARCHAR(20) | YES         | YES      |    |     |
| SID      | VARCHAR(20) | YES         | YES      |    |     |

**Table: Login**

| Column   | Type        | Primary key | Not Null | UQ | AI |
|----------|-------------|-------------|----------|----|----|
| Username | VARCHAR(20) | YES         | NO       |    |    |
| Password | VARCHAR(45) |             | NO       |    |    |
| IsAdmin  | TINYINT(4)  |             |          |    |    |
| USN      | VARCHAR(45) |             |          |    |    |
| SID      | VARCHAR(45) |             |          |    |    |

**Table: Staff Details**

| Column         | Type        | Primary key | Not Null | UQ | AI |
|----------------|-------------|-------------|----------|----|----|
| SID            | VARCHAR(20) | YES         | YES      |    |    |
| Name           | VARCHAR(20) |             | YES      |    |    |
| Contact_Number | VARCHAR(20) |             |          |    |    |

**Table: StudentAndSections**

| Column  | Type        | Primary key | Not Null | UQ | AI |
|---------|-------------|-------------|----------|----|----|
| USN     | VARCHAR(20) | YES         | YES      |    |    |
| SECTION | VARCHAR(45) |             | YES      |    |    |

**Table: Student\_Details**

| Column            | Type         | Primary key | Not Null | UQ | AI |
|-------------------|--------------|-------------|----------|----|----|
| SL_NO             | NUMBER       |             |          |    |    |
| USN               | VARCHAR(45)  | YES         | YES      |    |    |
| Name_Of_Student   | VARCHAR(45)  |             | YES      |    |    |
| Permanent_Address | VARCHAR(100) |             |          |    |    |
| Phone_Number      | NUMBER       |             |          |    |    |
| Email             | VARCHAR(20)  |             |          |    |    |

**Table: SUBCODE\_SUB\_NM**

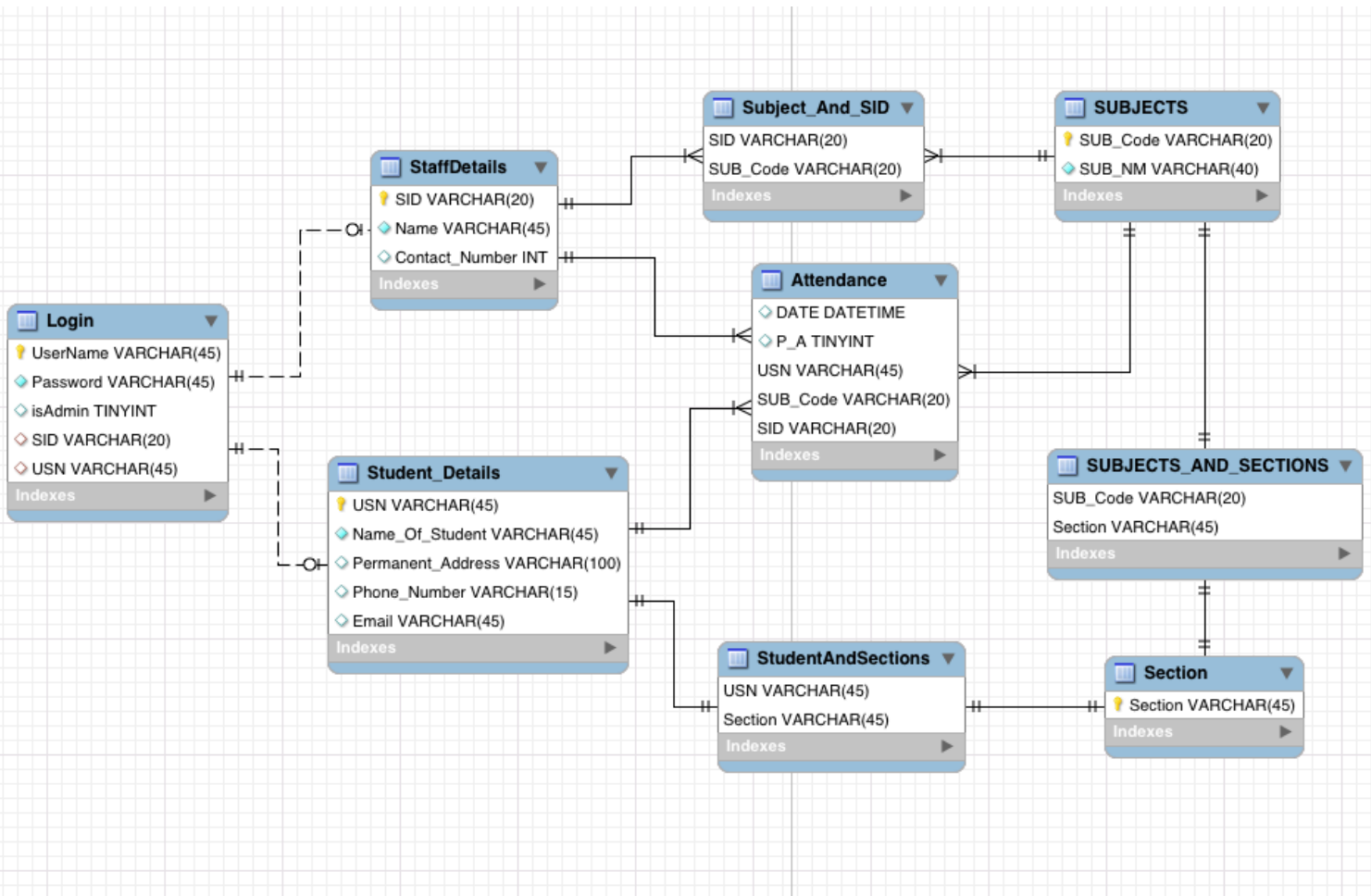
| Column  | Type        | Primary key | Not Null | UQ | AI |
|---------|-------------|-------------|----------|----|----|
| SUBCODE | VARCHAR(45) | YES         | YES      |    |    |
| SUB_NM  | VARCHAR(45) |             | YES      |    |    |

**Table: Subject\_Details**

| Column   | Type        | Primary key | Not Null | UQ | AI |
|----------|-------------|-------------|----------|----|----|
| SUB_Code | VARCHAR(40) | YES         | YES      |    |    |
| SID      | VARCHAR(40) | YES         | YES      |    |    |

### 1.3. Relational Schema

*Database: Mini\_project*



## **2. Database Normalization**

### **2.1. First Normal Form**

All the Relations are designed in such a way that it has no repeating groups. Hence all tables are in 1<sup>st</sup> Normal Form.

### **2.2. Second Normal Form**

A relation is said to be in second normal form if it is already in first normal form and it has no partial dependency. All the tables in the database are designed in such a way that there is no partial dependency. Hence all tables are in 2nd Normal Form.

### **2.3. Third Normal Form**

A relation is said to be in third normal form if it is already in 1st and 2nd Normal Form and has no transitive dependency. All the tables in the database are designed in such a way that there is no transitive dependency. Hence all tables are in 3rd Normal Norm.

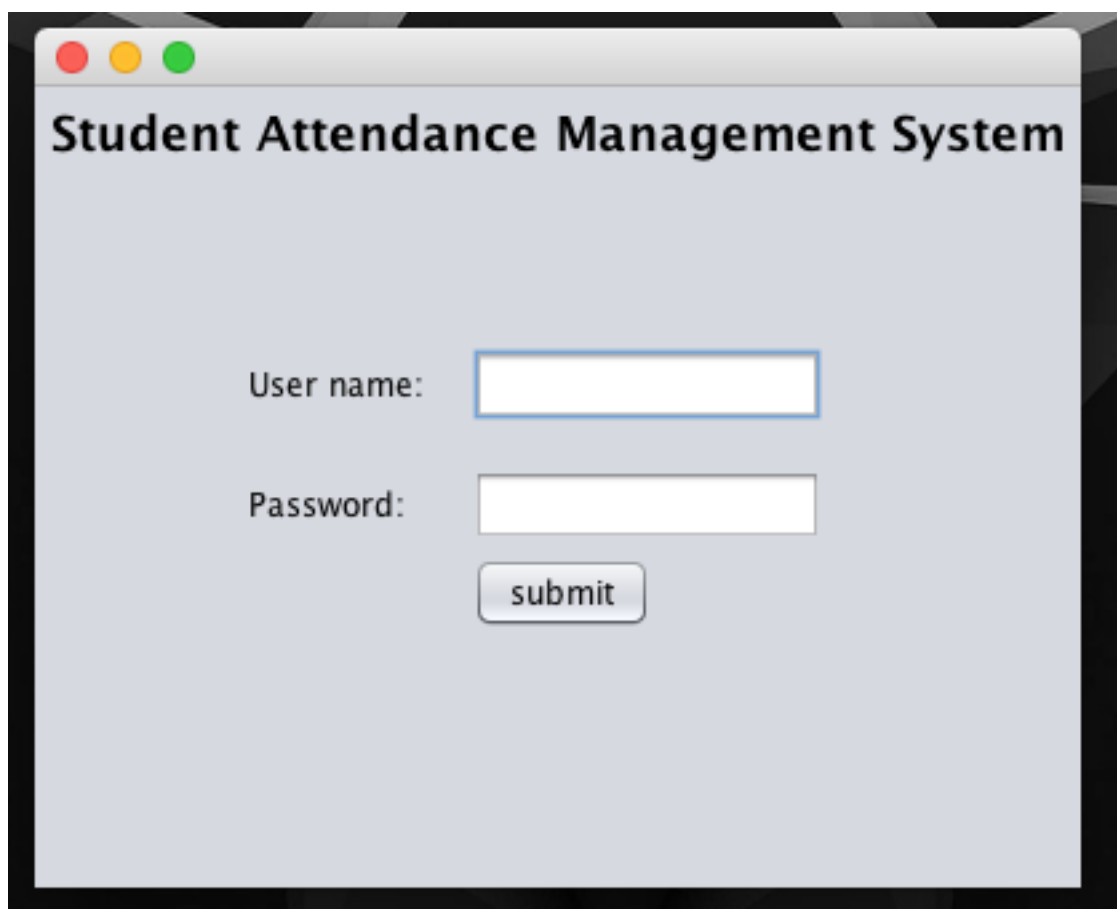
For Example:

- Every attribute of StaffDetails depends on primary key so it is in 3rd normal form
- In SUBJECTS table, SUB\_NM depends upon the SUB\_Code, hence another table Subject\_And\_SID with SID and SUB\_CODE is created to remove the transitive functional dependency.
- In StudentAndSection table, Section depends upon the USN, hence another table Student\_Details with Section is created to remove the transitive functional dependency.

### 3.3 User Interface

The Student Attendance Management System can be entered using a username and password. 'admin' can access all functionalities of the system. 'staff' can access only attendance details and can only add, modify and delete the attendance details and see the student list as shown in Figure 3.1.

#### 3.3.1 Login Module

The image shows a web browser window with a title bar containing three colored buttons (red, yellow, green). The main content area has a light blue background. At the top, the text "Student Attendance Management System" is displayed in a bold, black font. Below this, there are two input fields: "User name:" followed by a white rectangular box with a blue border, and "Password:" followed by a white rectangular box with a blue border. Below the password field is a button with the text "submit" in a rounded rectangular shape.

**Figure 3.1 Login Module**



### 3.3.2 Staff Module:

#### Add Teacher:

**Administrator** Logout

Add User Add Student Add Teacher Add Subjects

NAME:

SID:

ContactNumber:

**Available Subjects:**

| SUBCODE | SUB NAME |
|---------|----------|
|         |          |
|         |          |
|         |          |
|         |          |
|         |          |

**Subjects Selected:**

| SUBCODE | SUB NAME |
|---------|----------|
|         |          |
|         |          |
|         |          |
|         |          |
|         |          |

Submit

*Figure 3.2 Staff Module*

### 3.3.3 Student Module:

#### Add Student:

The screenshot shows a web application window titled "Administrator" with a "Logout" button in the top right corner. Below the title bar, there are four tabs: "Add User", "Add Student" (which is the active tab), "Add Teacher", and "Add Subjects". The "Add Student" tab contains a form with the following fields and labels:

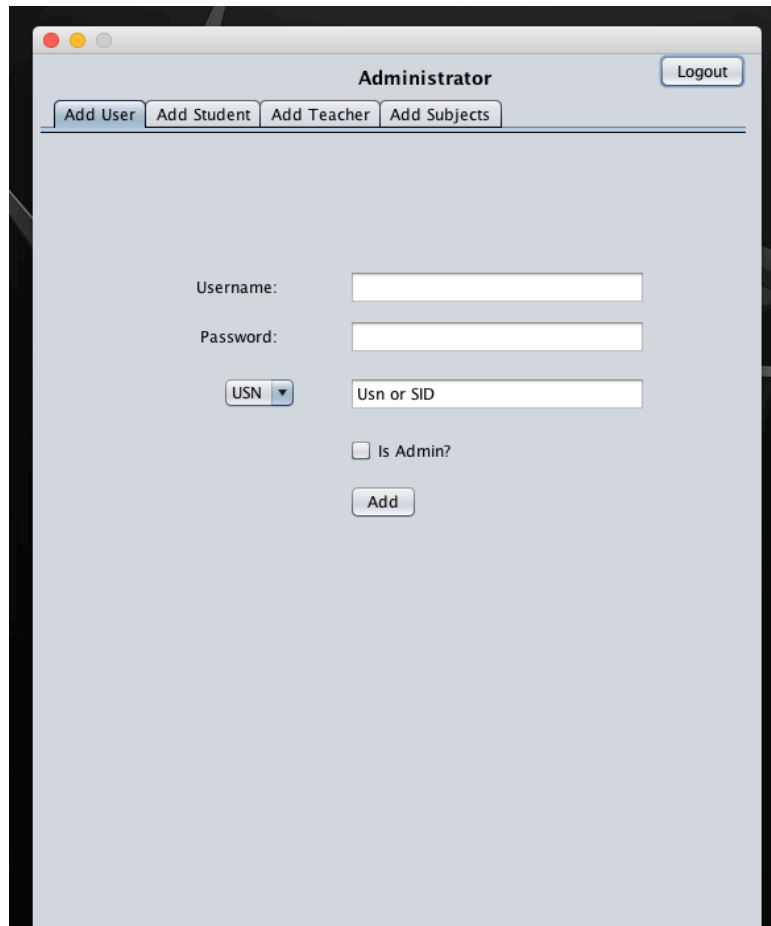
- USN:
- Name:
- Address:
- Email:
- Phone no:
- Class:

Below the form, there are three buttons: "Add", "delete", and "Search". At the bottom of the window, there is a large, empty rectangular box, likely intended for displaying a list of students or a confirmation message.

*Figure 3.3 Student Module*

### 3.3.4 User Module:

Add User:



The screenshot shows a web application window titled "Administrator" with a "Logout" button in the top right corner. Below the title bar, there is a navigation menu with four buttons: "Add User" (highlighted in blue), "Add Student", "Add Teacher", and "Add Subjects". The main content area contains the "Add User" form. It includes two text input fields for "Username:" and "Password:". Below these, there is a dropdown menu labeled "USN" and a text input field labeled "Usn or SID". A checkbox labeled "Is Admin?" is positioned below the "Usn or SID" field. At the bottom of the form is an "Add" button.

Figure 3.4 User Module

### 3.3.5 Subjects Module:

The screenshot shows a web application window for an administrator. The window has a title bar with standard OS window controls (red, yellow, grey buttons). The title of the window is "Administrator". In the top right corner, there is a "Logout" button. Below the title bar, there is a horizontal menu with four tabs: "Add User", "Add Student", "Add Teacher", and "Add Subjects". The "Add Subjects" tab is currently selected and highlighted. The main content area of the window is light blue and contains the following elements:  
- A label "Subject name:" followed by a white text input field.  
- A label "Subject code:" followed by a white text input field.  
- An "Add" button located below the two input fields.

*Figure 3.5 Subject Module*

### 3.3.6 Attendance Details:

**TEACHER** Logout

Take Attendance Check Attendance Shortage

Total List: 2 CSE58 MEC 2017-11-25 14:00:00 Absentees list: 0 Submit

| Name                | USN               |
|---------------------|-------------------|
| NEHA.N.M            | 1DT15CS073        |
| NIVEDITHA.S         | 1DT15CS074        |
| OMAIZ AHMED         | 1DT15CS075        |
| P.V SOWMYA          | 1DT15CS076        |
| PEDDI REDDY ANANYA  | 1DT15CS077        |
| PILLA SASHREEK      | 1DT15CS078        |
| PRADEEP MANJU GOND  | 1DT15CS079        |
| PRANSHU TIWARY      | 1DT15CS080        |
| PRATEEK T.L         | 1DT15CS081        |
| PREMCHAND GUPTA.M   | 1DT15CS082        |
| PRIYA C.P           | 1DT15CS083        |
| PRUTHVI .C          | 1DT15CS084        |
| PURVI RAVAL         | 1DT15CS085        |
| R.V SREEKANTH       | 1DT15CS086        |
| RACHIT KUMAR        | 1DT15CS087        |
| RAFA ZAMIER         | 1DT15CS088        |
| RAHUL AGRAWAL       | 1DT15CS089        |
| RAHUL BHARADWAJ M.V | 1DT15CS090        |
| <b>RAHUL .M</b>     | <b>1DT15CS091</b> |
| RAKSHITH KAKATHKAR  | 1DT15CS092        |
| REIYA RANJAN        | 1DT15CS093        |
| REVANTH KUMAR R.G   | 1DT15CS094        |
| RISHABH             | 1DT15CS095        |
| RITHIKA CARIAPPA    | 1DT15CS096        |
| S. SAI PRATHYUSHA   | 1DT15CS097        |
| S. SHRUTHI MITHRA   | 1DT15CS098        |

| Name                | USN        |
|---------------------|------------|
| PILLA SASHREEK      | 1DT15CS078 |
| RAKSHITH KAKATHKAR  | 1DT15CS092 |
| SURYA GANGARAJ.K    | 1DT15CS115 |
| SUHAS K.C           | 1DT15CS112 |
| SAGAR SHANKAR HEBRI | 1DT15CS100 |
| RISHABH             | 1DT15CS095 |
| RAHUL .M            | 1DT15CS091 |

*Figure 3.6 Attendance Module*

## CHAPTER 4

### IMPLEMENTATION

#### 1. Login Module

|                     |   |
|---------------------|---|
| <b>Process Name</b> | : Login   |
| Process Number      | : 1.1   |
| Input               | : User Name<br>: Password                                   |
| Output              | : Status Message  |
| Error Condition     | : User Name Already Exists<br><br>: All Fields are Required |

#### 4.2 Staff Module

|                     |   |
|---------------------|---|
| <b>Process Name</b> | : <b>Add Teacher</b>                          |
| Process Number      | : 2.1   |
| Input               | : Name<br>: SID<br>: ContactNumber            |
| Output              | : Status Message                              |
| Error Condition     | : SID Already Exists<br>: SID cannot be Empty |

### 4.3 Student Module

|                     |  |
|---------------------|--|
| <b>Process Name</b> | <b>: Add new Student</b>   |
| Process Number      | : 3.1  |
| Input               | : USN<br>: Name<br>: Address<br>: Email<br>:Phone no.<br>:Class  |
| Output              | : Status Message   |
| Error Condition     | : <u>USN</u> Already Exists<br>: SQL error for Class foreign key constraint<br>: All fields are Required |

|                     |   |
|---------------------|---|
| <b>Process Name</b> | <b>: Search Student</b>   |
| Process Number      | : 3.2   |
| Input               | : USN   |
| Output              | : Status Message  |
| Error Condition     | : No Records Found<br>: SQL error for Class foreign key constraint<br>: All fields are Required |

|                     |                         |
|---------------------|-------------------------|
| <b>Process Name</b> | <b>: Delete Student</b> |
| Process Number      | : 3.3                   |
| Input               | : USN                   |
| Output              | : Status Message        |
| Error Condition     | : No Records Found      |

#### 4. User Module

|                     |   |
|---------------------|---|
| <b>Process Name</b> | <b>: Add New USER</b>                                   |
| Process Number      | : 4.1   |
| Input               | : UserName<br>: Password<br>: Usn or SID                |
| Output              | : Status Message  |
| Error Condition     | : User Name Already Exists<br>: All fields are Required |

#### 5. Subject Module

|                     |  |
|---------------------|--|
| <b>Process Name</b> | <b>: Add Subject name</b>                                  |
| Process Number      | : 5.1  |
| Input               | : Subject name<br>: Subject code                           |
| Output              | : Status Message   |
| Error Condition     | : Subject code Already Exists<br>: All fields are Required |



## 6. Attendance Module

|                     |  |
|---------------------|--|
| <b>Process Name</b> | <b>: Take Attendance</b>                   |
| Process Number      | : 6.1                                      |
| Input               | : Section<br>: Subject<br>:TimeStamp       |
| Output              | : Status Message                           |
| Error Condition     | : No Students<br>: All fields are Required |

|                     |  |
|---------------------|--|
| <b>Process Name</b> | <b>: Check Attendance</b>                        |
| Process Number      | : 6.2  |
| Input               | : TimeStamp<br>:Subject code                     |
| Output              | : Status Message                                 |
| Error Condition     | : No Students found<br>: All fields are Required |

|                     |  |
|---------------------|--|
| <b>Process Name</b> | <b>: Attendance Shortage</b>   |
| Process Number      | : 6.3  |
| Input               | : Timestamp<br>:Subject code   |
| Output              | : Status Message   |
| Error Condition     | : No Students Found<br>: SQL error for SUB_CODE foreign key constraint |

## CHAPTER 5

### SOURCE CODE

#### ADMIN FUNCTION:

```
private void submitbtnActionPerformed(java.awt.event.ActionEvent evt)
{
    conn = MySqlConnection.ConnectDB();
    String Sql = "select * from Student_Details where USN=?";
    String usnGot = usn2.getText().toUpperCase();
    try {
        pst = conn.prepareStatement(Sql);
        pst.setString(1, usnGot);
        rs = pst.executeQuery();
        if (rs.next()) {
            String c1 = "" + rs.getString(2) + "\n";
            c1 += "" + rs.getString(3) + "\n";
            c1 += "" + rs.getString(4) + "\n";
            c1 += "" + rs.getString(5) + "\n";
            c1 += "" + rs.getString(6) + "\n";
            c1 += "" + rs.getString(7) + "\n";
            output.setText(c1);
        } else {
            JOptionPane.showMessageDialog(null, "USN not found");
        }
    } catch (Exception e) {
        JOptionPane.showMessageDialog(null, e);
    }
}

private void submitbtnActionPerformed(java.awt.event.ActionEvent evt) {
    conn = MySqlConnection.ConnectDB();
    String Sql = "select * from Student_Details where USN=?";
    String usnGot = usn2.getText().toUpperCase();
    try {
        pst = conn.prepareStatement(Sql);
        pst.setString(1, usnGot);
```

```
rs = pst.executeQuery();
if (rs.next()) {
    String c1 = "" + rs.getString(2) + "\n";
    c1 += "" + rs.getString(3) + "\n";
    c1 += "" + rs.getString(4) + "\n";
    c1 += "" + rs.getString(5) + "\n";
    c1 += "" + rs.getString(6) + "\n";
    c1 += "" + rs.getString(7) + "\n";
    output.setText(c1);
} else {
    JOptionPane.showMessageDialog(null, "USN not found");
}
} catch (Exception e) {
    JOptionPane.showMessageDialog(null, e);
}
}

private void stdAddBtnActionPerformed(java.awt.event.ActionEvent evt) { //GEN-
FIRST:event_stdAddBtnActionPerformed
//Class_st
try {
    /// Student Add btn
    conn = MySqlConnection.ConnectDB();
    String usn = usn2.getText().toUpperCase();
    String name = name2.getText();
    String add = add2.getText();
    String email = email2.getText();
    String phone = phone2.getText();
    String className = Class_st.getText();
    className = className.toUpperCase();
    if (add.isEmpty()) {
        add = "Empty Address";
    }
    if (email.isEmpty()) {
        email = "Empty Email Address";
    }
}
```

```
    }
    if (phone.isEmpty()) {
        phone = "Empty Phone Number";
    }
    if (className.isEmpty()) {
        status3.setText("Class name is empty");
    }
    if (!className.isEmpty()) {

        String Sql = "INSERT INTO Student_Details ( USN, Name_Of_Student,"
            + " Permanent_Address, Phone_Number, Email,CLASS) VALUES
( ?, ?, ?, ?, ?,?)";

        PreparedStatement preparedStmt = conn.prepareStatement(Sql);
        preparedStmt.setString(1, usn);
        preparedStmt.setString(2, name);
        preparedStmt.setString(3, add);
        preparedStmt.setString(4, phone);
        preparedStmt.setString(5, email);
        preparedStmt.setString(6, className);

        // execute the java preparedstatement
        preparedStmt.executeUpdate();
        status3.setText("Student Added");
    }
    ///
} catch (SQLException ex) {
    Logger.getLogger(AdminView.class.getName()).log(Level.SEVERE, null, ex);
}

}
```

#### LOGIN FUNCTION:

```
private void submitBtnActionPerformed(java.awt.event.ActionEvent evt) {
    conn = MySqlConnect.ConnectDB();
```

```
String usr = usernameId.getText();
String pasd = passId.getText();
String Sql = "select * from Login where UserName=? and Password=?";
try {
    pst = conn.prepareStatement(Sql);
    pst.setString(1, usr);
    pst.setString(2, pasd);
    rs = pst.executeQuery();
    if (rs.next()) {
        String ad = rs.getString(3);
        String usn = rs.getString(4);
        String sid = rs.getString(5);

        if (ad.equals("0") && (sid != null) && (usn == null)) {
            this.SID=sid;
            (new TeacherFrame()).setVisible(true);

            this.setVisible(false);
        }
        if (ad.equals("0") && (usn != null) && (sid == null)) {
            this.USN=usn;
            JOptionPane.showMessageDialog(null, "students");
        }
        if (ad.equals("1")) {
            (new AdminView(true)).setVisible(true);
            this.setVisible(false);
        }
    } else {
        statusId.setText("incorrect password or username");
    }
} catch (Exception e) {
}
```

TEACHER FUNCTION:

```
public TeacherFrame() {  
    initComponents();  
    DefaultTableModel model = (DefaultTableModel) jTable1.getModel();  
    Vector comboBoxItems = new Vector();  
    String Sql1 = "select SUB_NM from Subject_Details where SID='" + SID + "'";  
    comboBoxItems = new Vector();  
    conn = MySqlConnection.ConnectDB();  
    try {  
        Statement st = conn.createStatement();  
        rs = st.executeQuery(Sql1);  
        while (rs.next()) {  
            comboBoxItems.add(rs.getString(1));  
        }  
    } catch (Exception e) {  
  
    }  
}
```

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