

# **Student Attendance Management System**

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# Student Attendance Management System

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## **1. Introduction**

### **1.1 Purpose**

Student attendance management system project used to maintain and track student attendance records for any school . In this asp.net project we will discuss attendance system project for school students. We developed this attendance system as website application using C# language in Visual Studio ASP.Net and use sql server for database server.

### **1.2 Document Conventions**

This SRS is written in Times New Roman font with size 11 in with size 14. The priorities for higher level requirements are inherited in detailed requirements.

### **1.3 Intended Audience and Reading Suggestions**

This System Requirement Specification is meant for the Project makers, Project overseers, The Website Administrators, Customers, and the Suppliers. The SRS is written in the standard IEEE format. The readers should read the whole SRS sequentially to gain a proper understanding of the project.

### **1.4 Product Scope**

The student attendance management system project used to maintain school students attendance records. The attendance project has three user module for run the system Admin, Staff and Student. Initially the system will be blank, The Administrator has a rights to create standard and classroom for school and same time he has to add staff detail. Administrator generates unique username and password for all staff while adding staff detail. All staff maintain attendance of student, generate reports month wise, date wise. We developed this attendance

system as website application using C# language in Visual Studio ASP.Net and use sql server for database server.

## 1.5 References

<https://meeraacademy.com/student-attendance-management-system-project-in-c-net/>

<https://freeprojectsforall.com/net-mini-projects/>

## SRS of Student Attendance Management System

## **2 Overall Description**

### **2.1 Product Perspective**

The proposed system is very good from the point of view of economy, flexibility, and reliability. New modules, features, and components can be easily added into the Student Attendance Management System as per user requirements in future. It is not a component of a larger system. The Student Attendance Management System website supports a number of functions for user. The website is available to anyone using the internet and as such must work correctly in all browsers (Google Chrome, Internet Explorer, Mozilla Firefox, Microsoft Edge, Safari, etc). There are no hardware or software requirements beyond these including, but not limited to, memory or specific software packages that need to be utilized nor software packages that need not be utilized.

### **2.2 Product Functions**

The key functions of this proposed project are listed below. Many new features can be added into the system to make it more enhanced.

#### **Admin Functionalities:**

- Add Standard
- Add Division / Classroom
- Add Staff
- Manage Complain
- Leave Reports

- Manage Reports

## **Staff Functionalities :**

- Add Student
- Fill Attendance
- Manage Leave
- Manage Complaints
- Manage Reports
- Change Password

## **Student Functionality :**

- Manage Account
- Make Complain
- Apply for Leave
- Attendance Reports
- Change Password

## **2.3 User Classes and Characteristics**

The typical Student Attendance Managemet System needs access to the Internet and a web browser. It is assumed that the user is familiar enough with a computer to operate the browser, keyboard and mouse and is capable of browsing to, from and within simple websites.

## **2.4 Operating Environment**

The system will work on any hardware device having a internet connectivity and browsers to browse the website. The browsers should be up to date to run various features of the website.ASP.Net

Visual Studio 2022 with C# Language

## 2.5 Design and Implementation Constraints

Security is a concern for this system. The database may store passwords in plain text and there need to be a password recovery feature. A strong password is a password that meets a number of conditions that are set in place so that user's passwords cannot be easily guessed by an attacker. Generally, these rules include ensuring that the password contains a sufficient number of characters and contains not only lowercase letters but also capitals, numbers, and in some cases, symbols.

## 2.6 Assumptions and Dependencies

Since the Student Attendance Management System is only accessible through the internet, it is assumed that the end user has a connection to the internet. It is also assumed that the user has a web browser able to display the website.

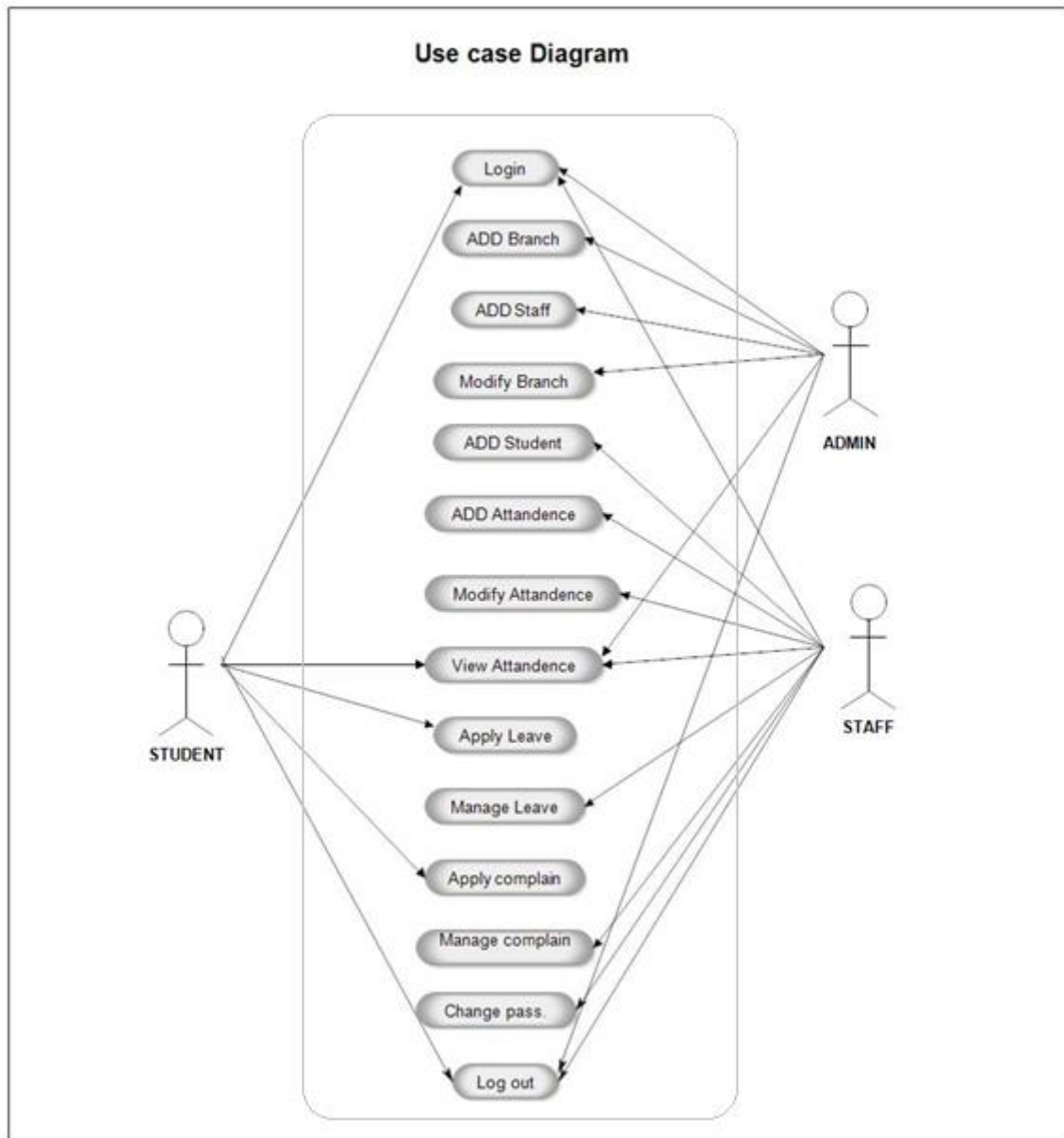
Client:

We have assumed that all of the computer systems are in proper working condition and that the user is capable of operating these system's basic functions including but not limited to being able to power on the system, login and open browsers, and navigate the browser to the address of the website.

Provider:

We have assumed that the Student Attendance Management System will be running on a properly working web server and database system with an Internet connection that allows this system to perform all communications with clients.

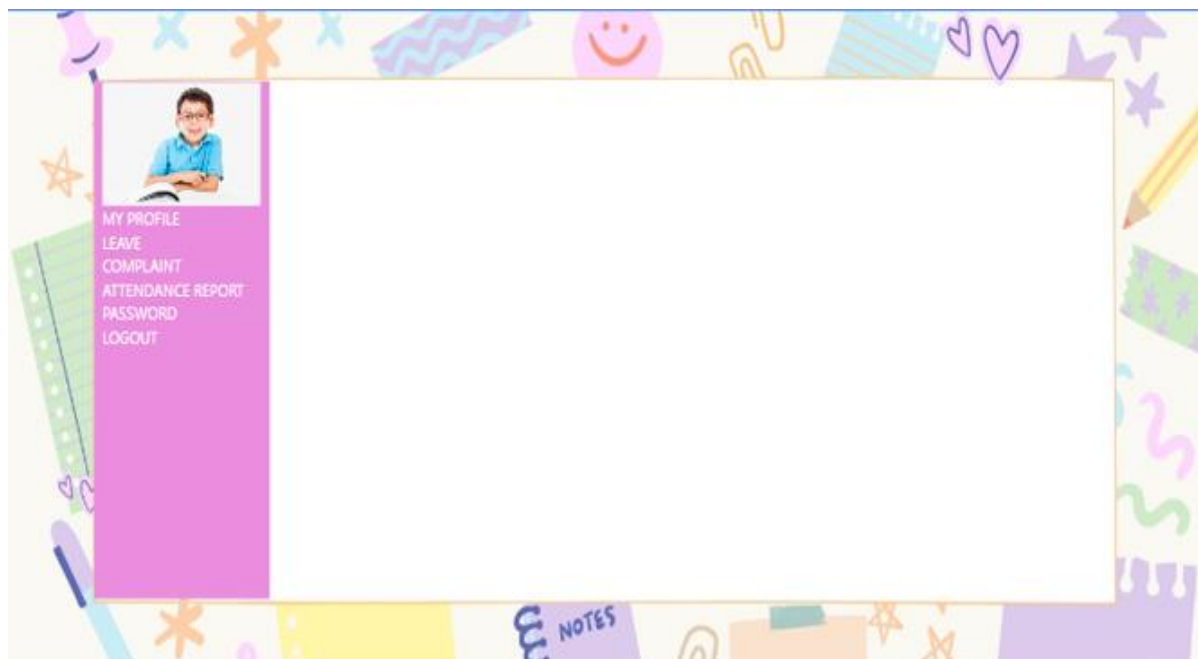
## 2.7 Use Case Diagram



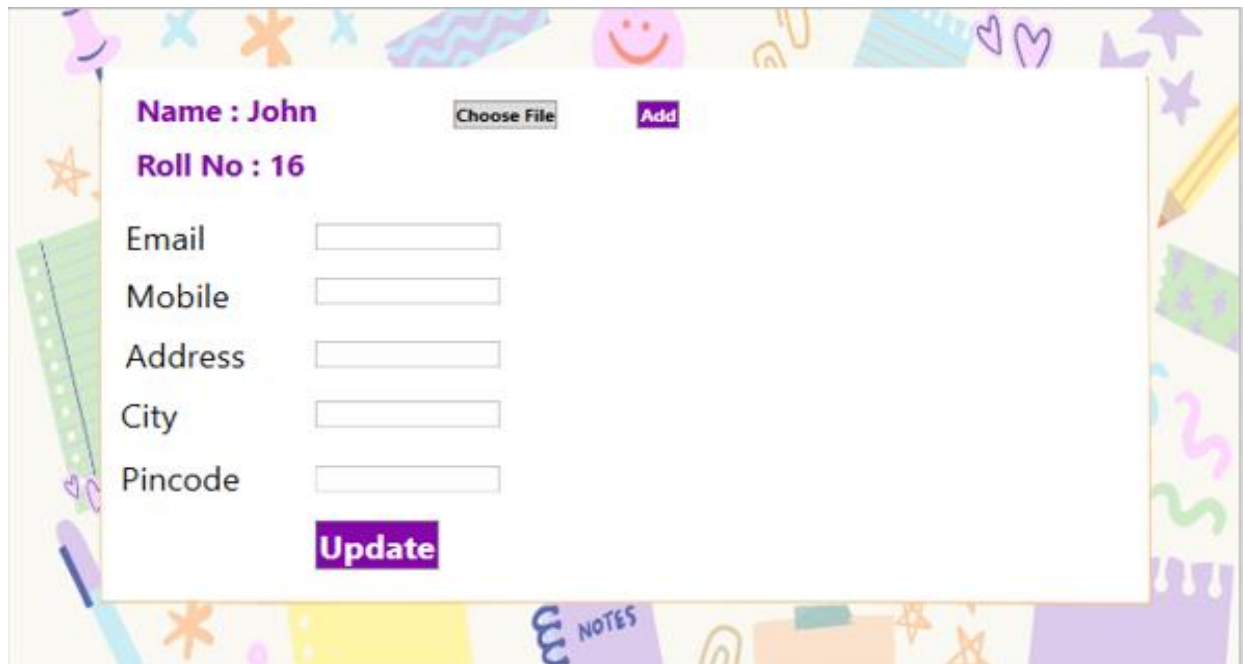




**HOME PAGE**



**STUDENT HOME**



A form for adding or updating a student's profile. The form is set against a colorful, cartoonish background with stars, hearts, and a pencil. It contains fields for Name, Roll No, Email, Mobile, Address, City, and Pincode. There are 'Choose File', 'Add', and 'Update' buttons.

**Name : John** Choose File Add

**Roll No : 16**

Email

Mobile

Address

City

Pincode

Update

## STUDENT PROFILE



## STAFF HOME



**Name : Manju**

**Standard : 1st STD**

Email

Mobile

Address

City

Pincode

## STAFF PROFILE



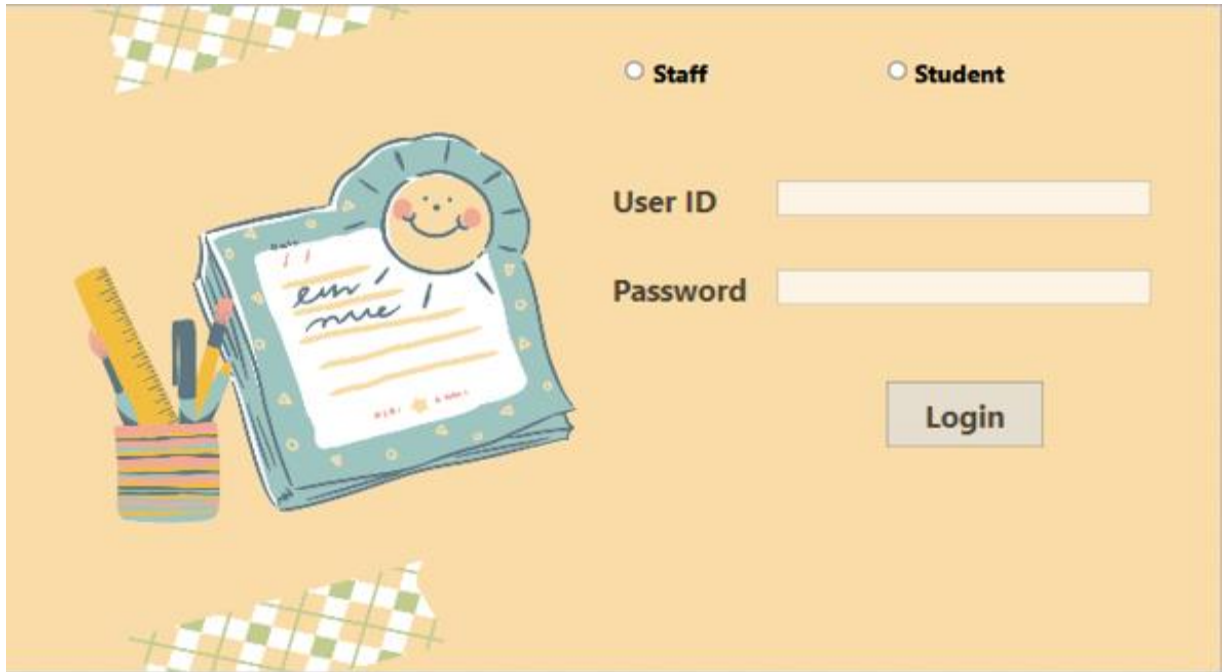
**Standard**

**Division**

Select a date

RollNo	StudentName	Standard	Division	Status
--------	-------------	----------	----------	--------

## ATTENDANCE



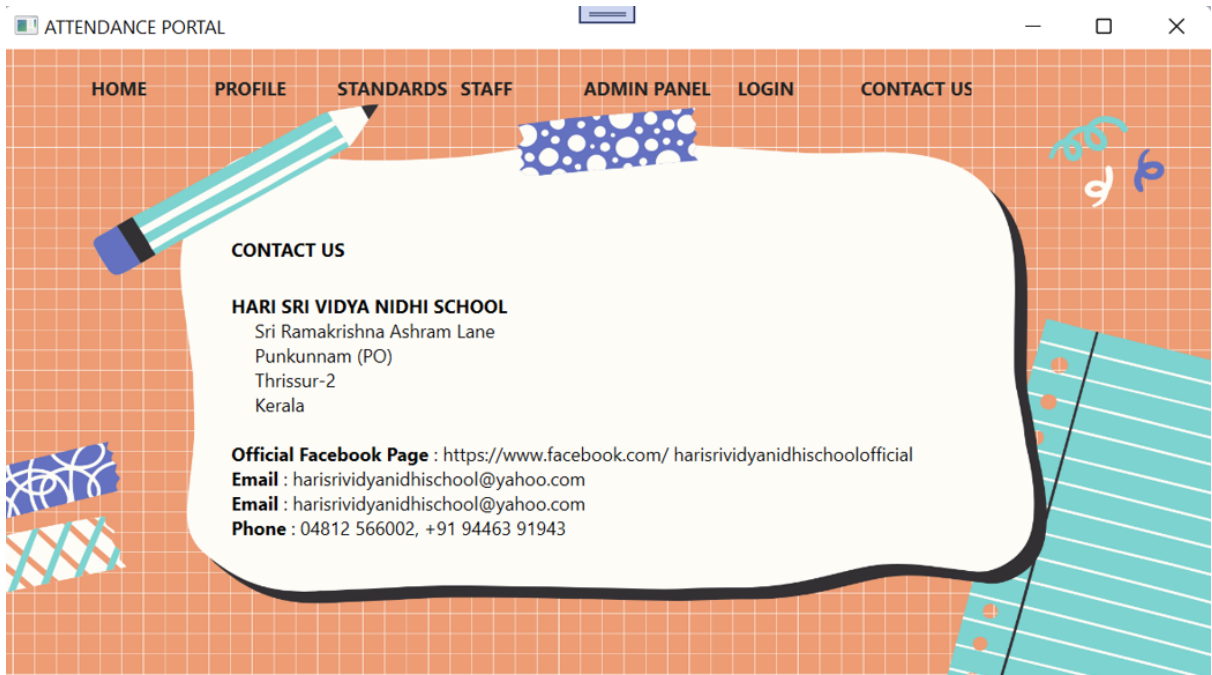
☐ Staff ☐ Student

User ID

Password

Login

## LOGIN



ATTENDANCE PORTAL

HOME PROFILE STANDARDS STAFF ADMIN PANEL LOGIN CONTACT US

**CONTACT US**

**HARI SRI VIDYA NIDHI SCHOOL**  
Sri Ramakrishna Ashram Lane  
Punkunnam (PO)  
Thrissur-2  
Kerala

**Official Facebook Page :** <https://www.facebook.com/harisrividyamidhishchoolofficial>  
**Email :** [harisrividyamidhishchool@yahoo.com](mailto:harisrividyamidhishchool@yahoo.com)  
**Email :** [harisrividyamidhishchool@yahoo.com](mailto:harisrividyamidhishchool@yahoo.com)  
**Phone :** 04812 566002, +91 94463 91943

## CONTACT US



Standard  Start Date  Select a date (15)

Division  End Date  Select a date (15)

Roll No	Student Name	Standard	Division	Message

**Sick leave**

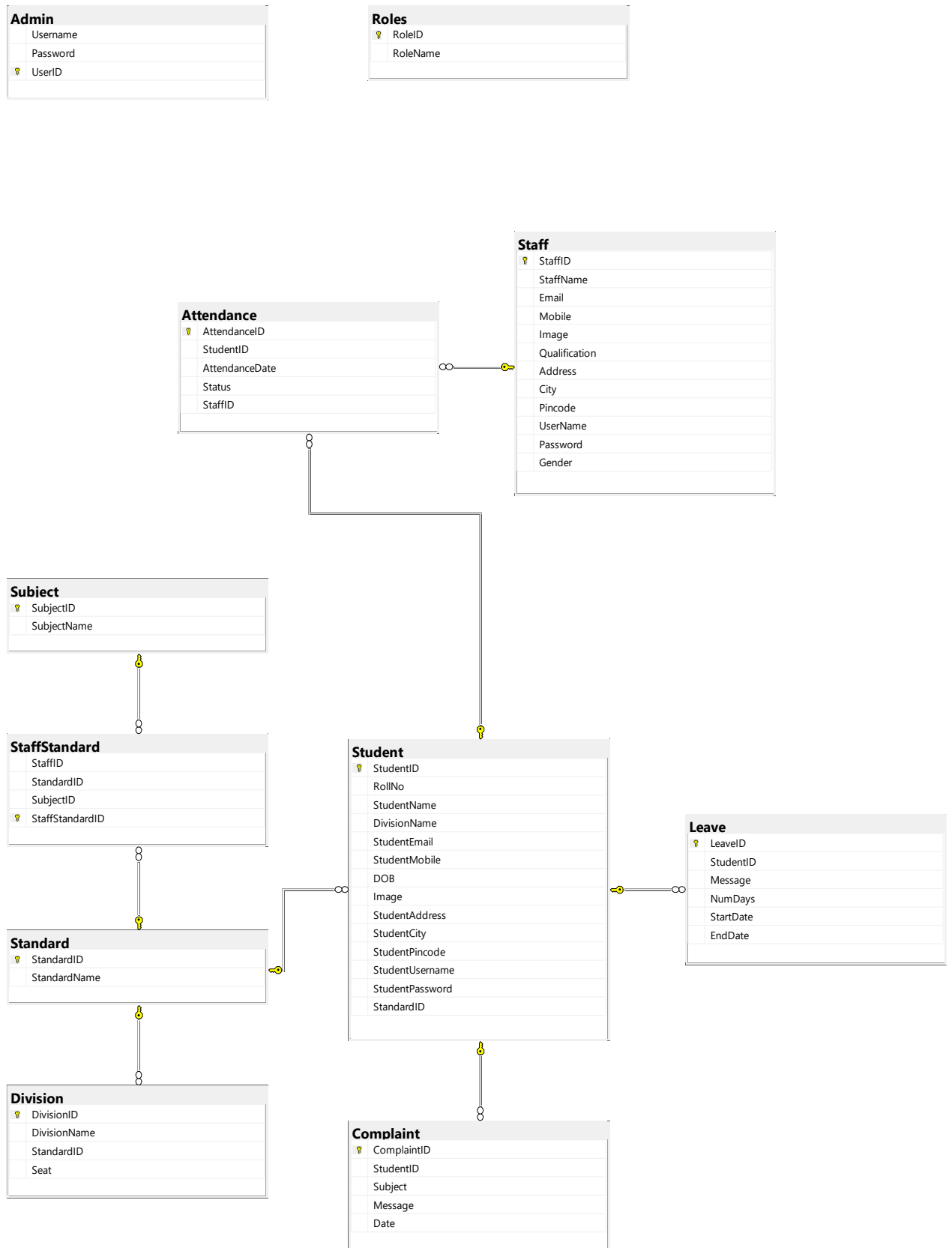
## LEAVE

Complaint About

Message

**Complaints**

## COMPLAINT



**DATABASE DIAGRAM**

### **3 External Interface Requirements**

#### **3.1 System Interfaces**

The system will interface with the inventory database via an SQL connection and Login for Admin, Staff and Students

#### **3.2 User Interfaces**

The Admin is a person who run and manage the system, in this project the owner or director of the school has rights of admin. The Admin creates the structure of a system to creating standard and classroom.

The main aim of the attendance system fulfill by staff. Staff can add student detail and fill the attendance daily for his division. The staff can only fill attendance for his division students and he can manage leaves and complains made by only his division student.

All student have unique username and password to access the system. After login into system student can view his attendance reports and manage his account. If any student has any problem regarding education he can directly make complain to his class teacher using this system. Student can apply for leave through the system and he can get reply from his class teacher about his leave status.

#### **3.3 Hardware Interfaces**

There are no special hardware interface requirements.

#### **3.4 Software Interfaces**

There are no special software interface requirements.

### **3.5 Communications Interfaces**

There are no special communication interface requirements.

## **4. Other Nonfunctional Requirements**

### **4.1 Performance Requirements**

The performance requirements are as follows:-

- System login/logout shall take less than 5 seconds.
- The system should run properly on all browsers.
- The system should be light and run smoothly.

### **4.2 Safety Requirements**

The safety requirements are as follows:-

- The password should not be visible while typing.
- Password Recovery

### **4.3 Security Requirements**

The security requirements are as follows:-

- The staff, student and administrator require a username and password to login into the system.

### **4.4 Software Quality Attributes**

- **Reliability**

The average time of failure for the system is 30 days. In the event that the server crashes, the system will take a week to be running again.



- **Availability**

The Student Attendance Management System will be available 24x7, with the exception of being down for maintenance no more than 3 hours a week. If the system crashes, it should be back up within a week.

- **Security**

Students will be able to access only their own personal information and not that of other Students.

- **Maintainability**

Any updates or defect fixes shall be able to be made on server-side computers only, without any patches required by the user.

### 4.5 Business Rules

The business rules are as follows:

Students will be able to access only their own personal information and not that of other Students.