

Project Title: Student Management System

★ Project Objectives

- Build a web-based system for managing student records.
- Implement **user authentication (Admin & Students)**.
- Perform **CRUD (Create, Read, Update, Delete) operations** on student records.
- Validate form inputs to ensure data integrity.
- Use **session management** for login/logout functionality.
- Secure passwords using **hashing**.

Project Outline

1 📁 User Roles & Authentication

- **Admin Login:** Admin can manage students.
- **Student Login:** Students can view their own profile.
- **Registration:** Only Admin can add new students.
- **Password Security:** Use `password_hash()` & `password_verify()`.

2 📁 Database Structure

★ Create a database: `student_management`

Tables:

Users (Admin & Students)

1. Users (Admin & Students) **id INT AUTO_INCREMENT PRIMARY KEY,**
2. **name VARCHAR(100) NOT NULL,**
3. **email VARCHAR(100) NOT NULL UNIQUE,**
4. **password VARCHAR(255) NOT NULL,**
5. **role ENUM('admin', 'student') NOT NULL**

Student Details

1. **id INT AUTO_INCREMENT PRIMARY KEY,**
2. **student_id VARCHAR(10) UNIQUE NOT NULL,**
3. **name VARCHAR(100) NOT NULL,**
4. **email VARCHAR(100) NOT NULL,**
5. **phone VARCHAR(15),**
6. **course VARCHAR(100),**
7. **created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP**

Functional Modules

◆ *User Authentication*

- **Login for Admin & Students** (`login.php`)
- **Logout** (`logout.php`)

◆ *Admin Features*

- **Dashboard** (`admin_dashboard.php`)
 - View all students
 - Add new students (`add_student.php`)
 - Edit student details (`edit_student.php`)
 - Delete a student (`delete_student.php`)

◆ *Student Features*

- **Dashboard** (`student_dashboard.php`)
 - View personal profile
 - Update profile

◆ *Form Validations*

- Validate **name, email, phone number, and student ID**.
- Prevent SQL Injection using **prepared statements**.
- Secure passwords using **hashing**.

Additional Features (For Extra Marks)

- **File Upload:** Allow students to upload a profile picture.
- **Search Functionality:** Admin can search students.

Assessment Criteria

| Feature | Marks |
|-----------------------------------------------------------|------------|
| User authentication (login, register, logout) | 10 |
| Admin dashboard (CRUD operations on students) | 20 |
| Student dashboard (view & update profile) | 15 |
| Form validation & security (hashing, prepared statements) | 20 |
| Database structure & connections | 15 |
| Extra features (search, file upload) | 20 |
| Total | 100 |