Student Management System - Project Report

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# Abstract

The Student Management System is a web-based application designed to manage and organize student information, homework assignments, and academic data efficiently. The system offers separate modules for students, teachers, and admin, providing them with appropriate access and tools. It aims to digitize student-related tasks to improve transparency, accuracy, and accessibility.

# Objective of the Project

To develop a centralized system where student data, homework, attendance, and academic details can be managed efficiently. The objective is to reduce paperwork and manual work through a responsive and interactive platform.

# Technologies Used

- Frontend: HTML, CSS, TAILWIND

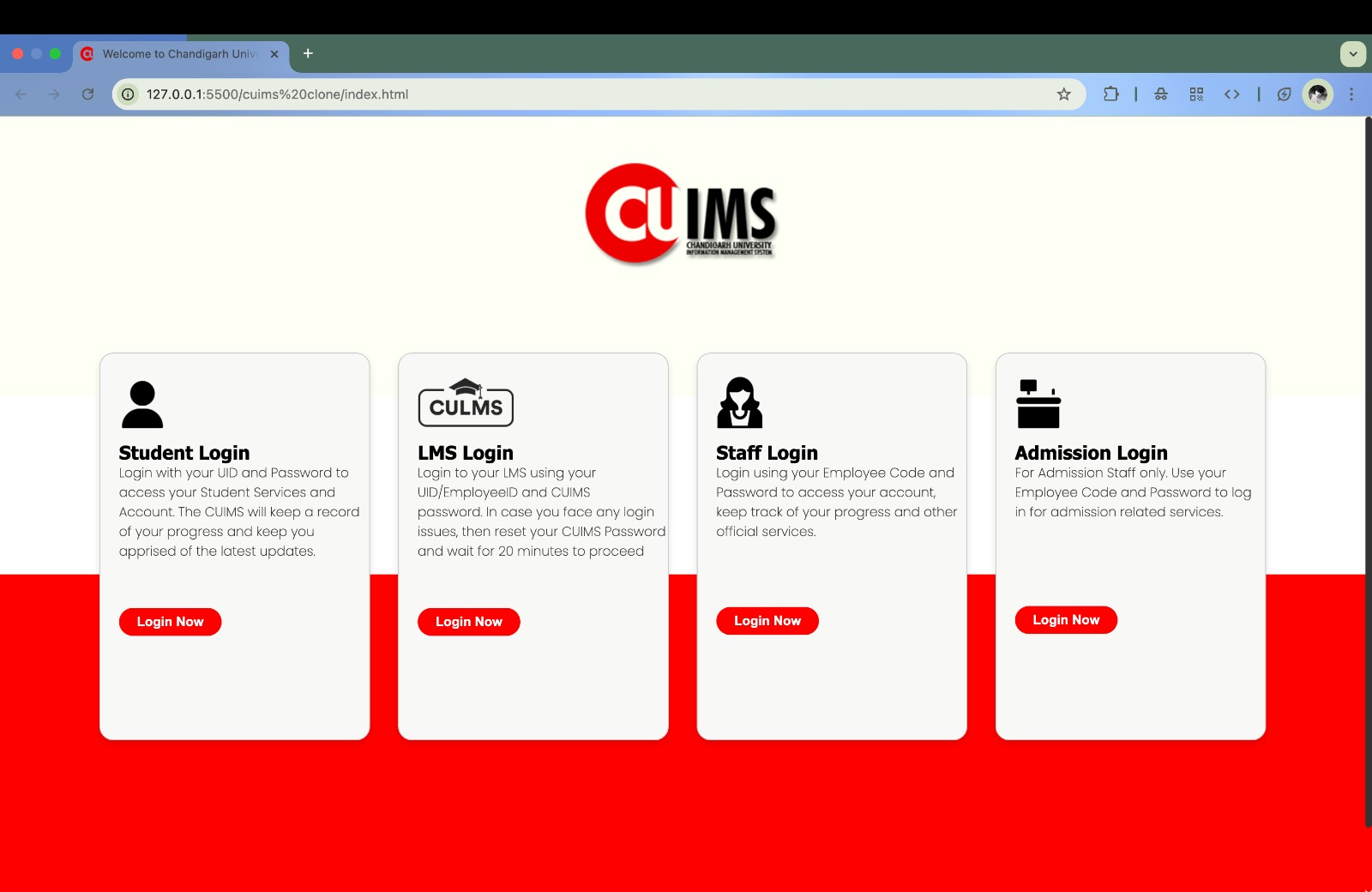
- Backend: PHP

- Database: MySQL

- Server: Apache (XAMPP)

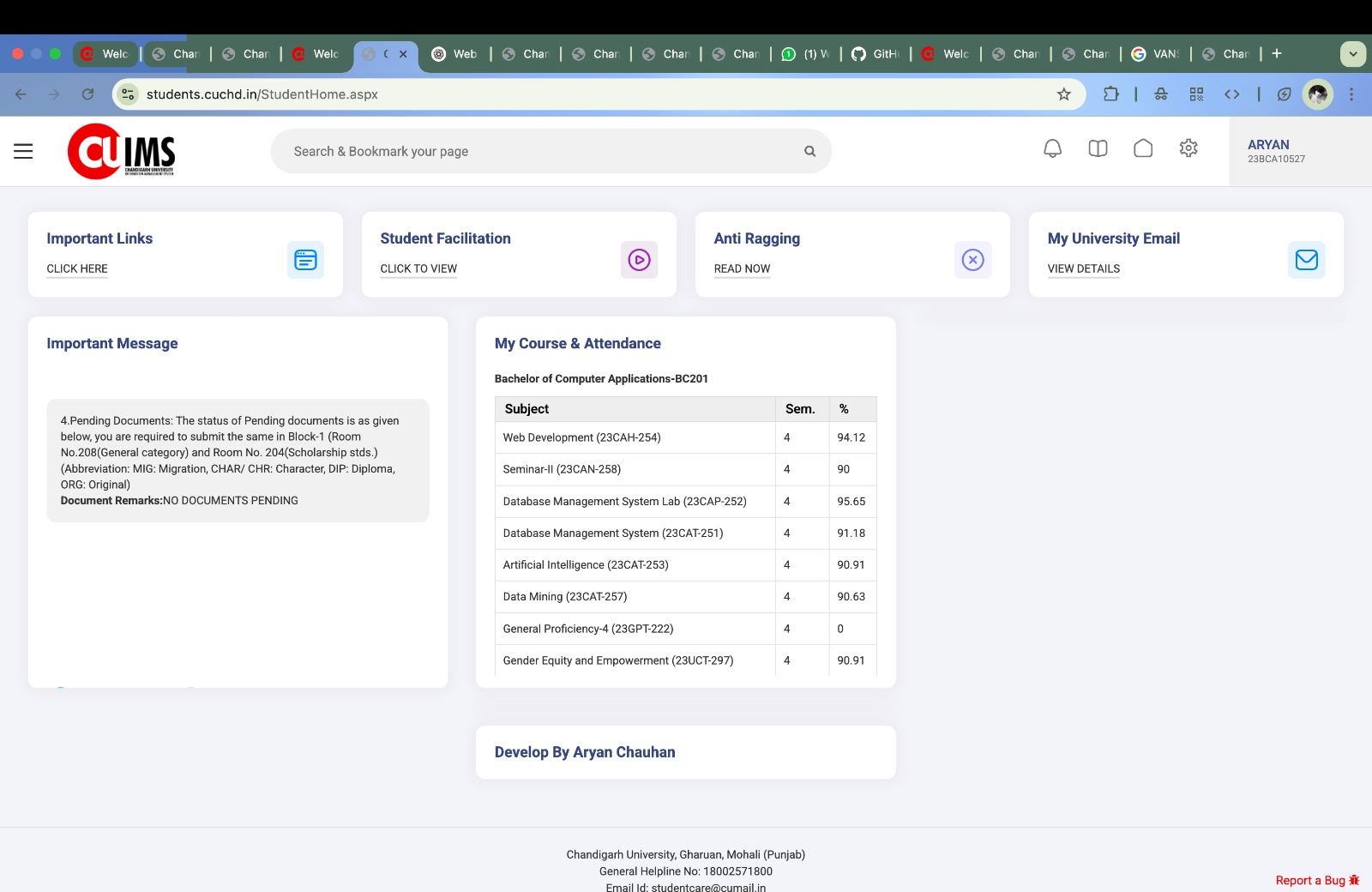
# Screenshots with Descriptions

## Home Page



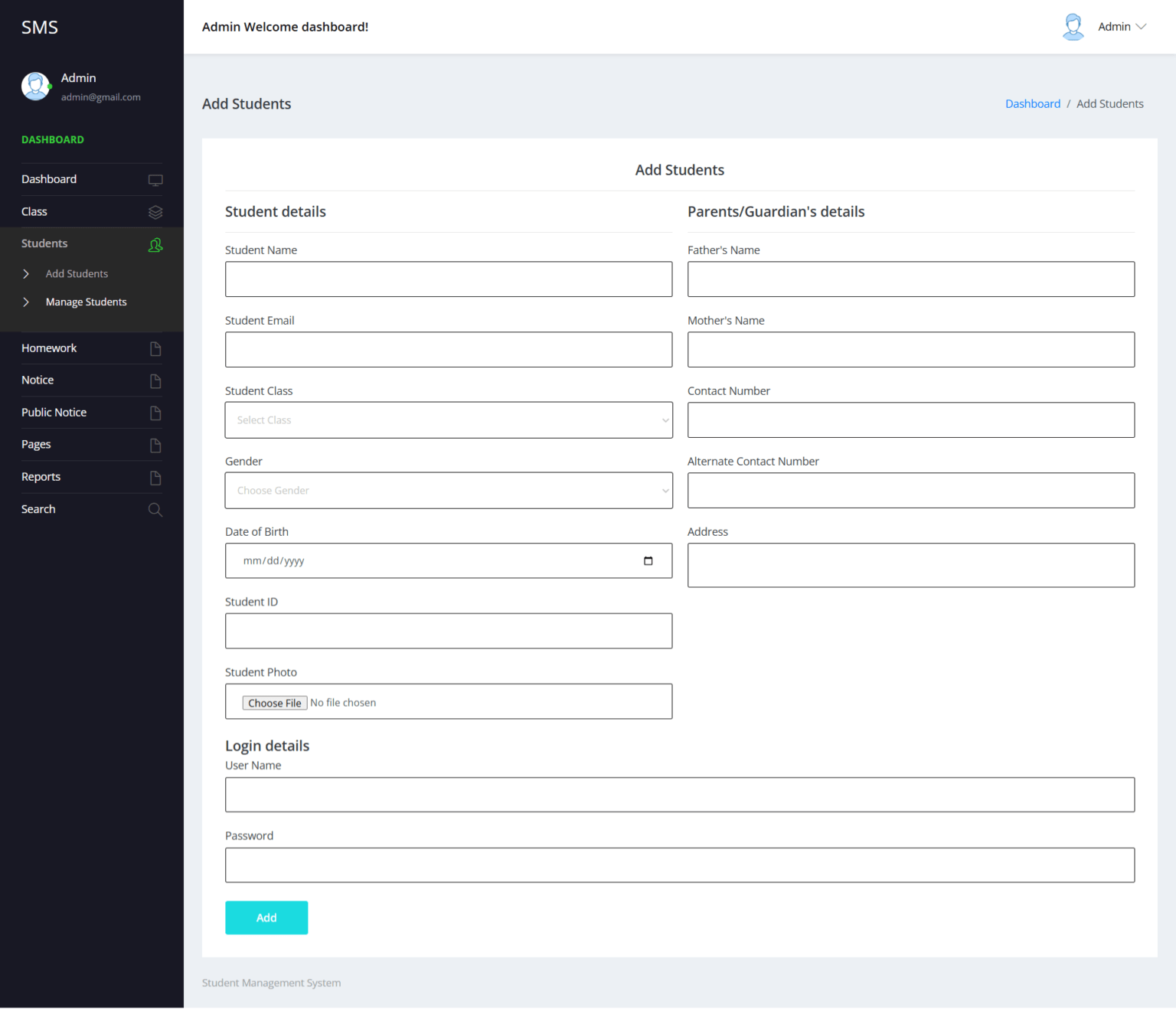
The Home Page is the entry point of the Student Management System. It includes navigation to modules like Dashboard, Add Student, Homework, etc. A clean UI ensures a user-friendly experience.

## Dashboard



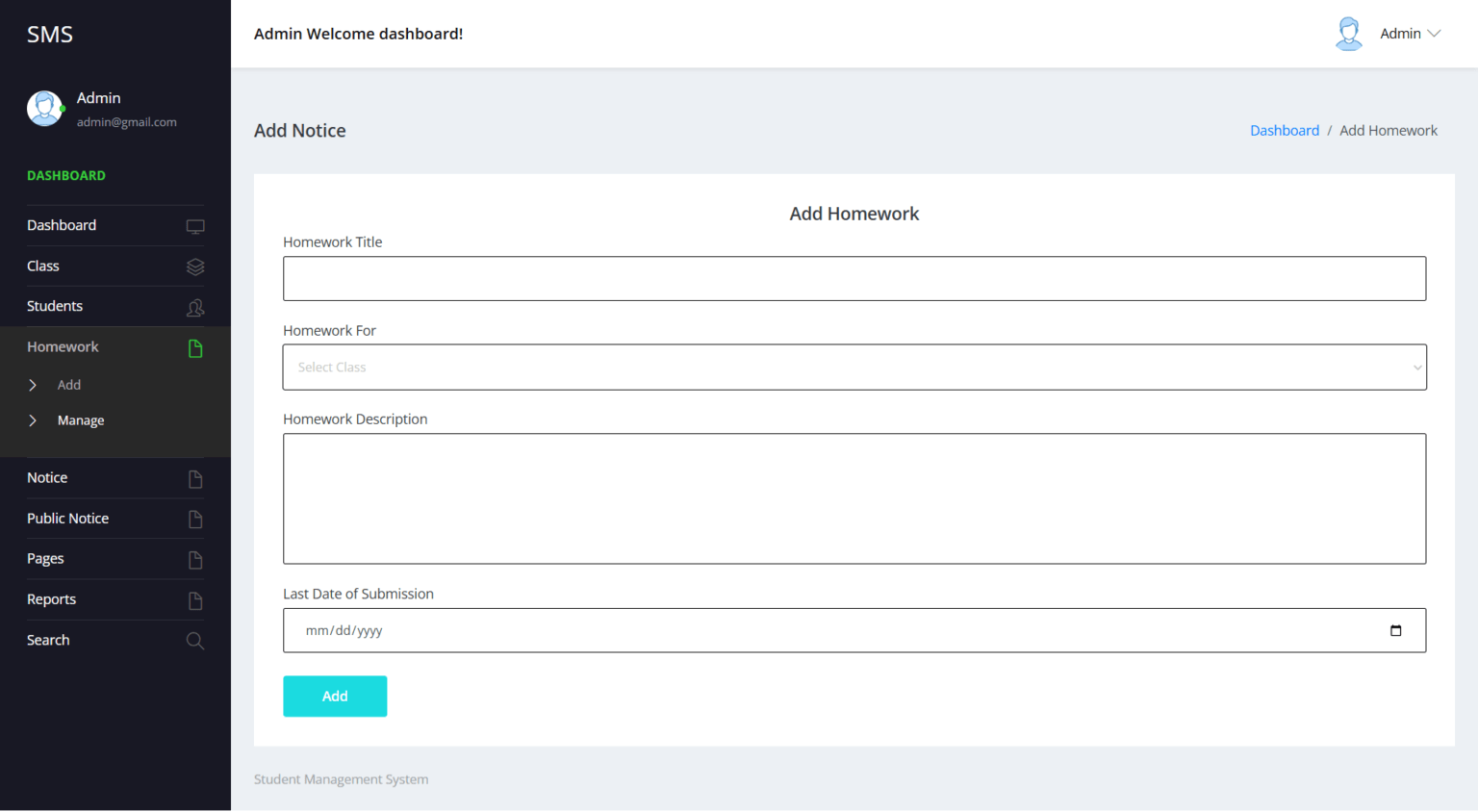
The Dashboard provides a summary of total students, homework assigned, and quick links for managing the system efficiently.

## Add Student Page



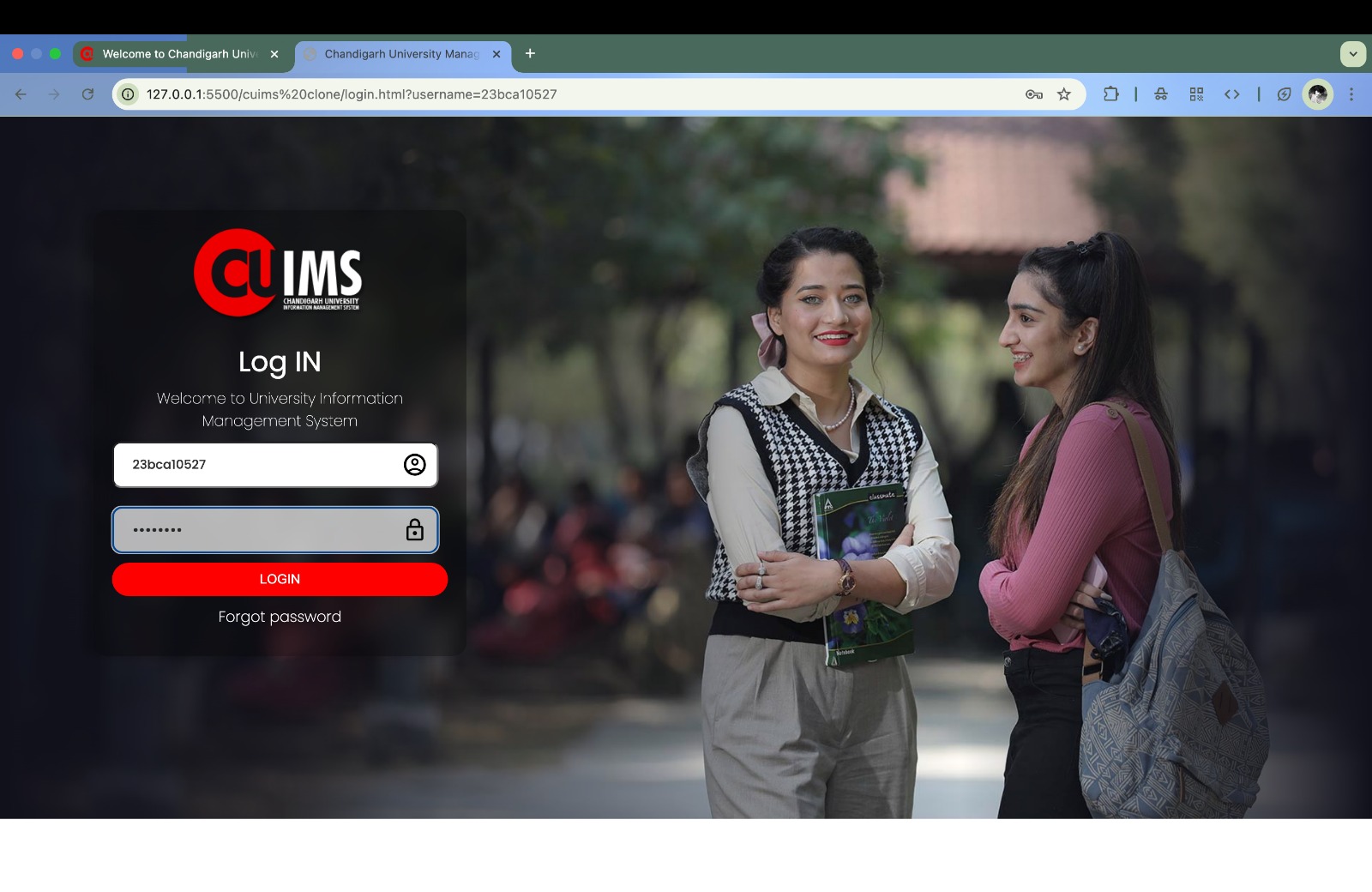
This page allows admin to add student records including name, email, contact, class, and DOB. Data is validated and stored in the database.

## Add Homework Page



Teachers can use this page to assign homework by specifying subject, title, description, and due date.

## Login Page



Login screen for users (Admin, Teachers, Students) with validation and redirection to the dashboard upon successful authentication.

# 5. Code Implementation (PHP + SQL)

# This section provides examples of how the Student Management System is implemented using PHP and MySQL.

# 5.1 SQL Code (Database + Tables)

# -- Create the Database CREATE DATABASE student\_management; -- Use the database USE student\_management; -- Table: Students CREATE TABLE students ( student\_id INT AUTO\_INCREMENT PRIMARY KEY, name VARCHAR(100), email VARCHAR(100), phone VARCHAR(15), address TEXT, class VARCHAR(50) ); -- Table: Teachers CREATE TABLE teachers ( teacher\_id INT AUTO\_INCREMENT PRIMARY KEY, name VARCHAR(100), subject VARCHAR(100), email VARCHAR(100) ); -- Table: Homework CREATE TABLE homework ( homework\_id INT AUTO\_INCREMENT PRIMARY KEY, title VARCHAR(100), description TEXT, due\_date DATE, assigned\_by INT, FOREIGN KEY (assigned\_by) REFERENCES teachers(teacher\_id) ); -- Table: Users (Login System) CREATE TABLE users ( user\_id INT AUTO\_INCREMENT PRIMARY KEY, username VARCHAR(50) UNIQUE, password VARCHAR(255), role ENUM('admin', 'teacher', 'student') );

# 5.2 login.php

# <?php session\_start(); include("db\_connection.php"); if ($\_SERVER["REQUEST\_METHOD"] == "POST") { $username = $\_POST["username"]; $password = $\_POST["password"]; $query = "SELECT \* FROM users WHERE username='$username' AND password='$password'"; $result = mysqli\_query($conn, $query); if (mysqli\_num\_rows($result) == 1) { $\_SESSION["username"] = $username; header("Location: dashboard.php"); } else { echo "Invalid login!"; } } ?>

# 5.3 add\_student.php

# <?php include("db\_connection.php"); if ($\_SERVER["REQUEST\_METHOD"] == "POST") { $name = $\_POST["name"]; $email = $\_POST["email"]; $phone = $\_POST["phone"]; $address = $\_POST["address"]; $class = $\_POST["class"]; $sql = "INSERT INTO students (name, email, phone, address, class) VALUES ('$name', '$email', '$phone', '$address', '$class')"; if (mysqli\_query($conn, $sql)) { echo "Student added successfully!"; } else { echo "Error: " . mysqli\_error($conn); } } ?>

# 5.4 db\_connection.php

# <?php $servername = "localhost"; $username = "root"; $password = ""; $dbname = "student\_management"; $conn = mysqli\_connect($servername, $username, $password, $dbname); if (!$conn) { die("Connection failed: " . mysqli\_connect\_error()); } ?>

# 6. Conclusion

# This project demonstrates the practical application of PHP and MySQL in developing a functional Student Management System. It helps manage student data, assign homework, and provide a clean interface for teachers and students to interact with the system.Conclusion