

Student Management System - Project Report

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Course: BCA

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Institution: Chandigarh University

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

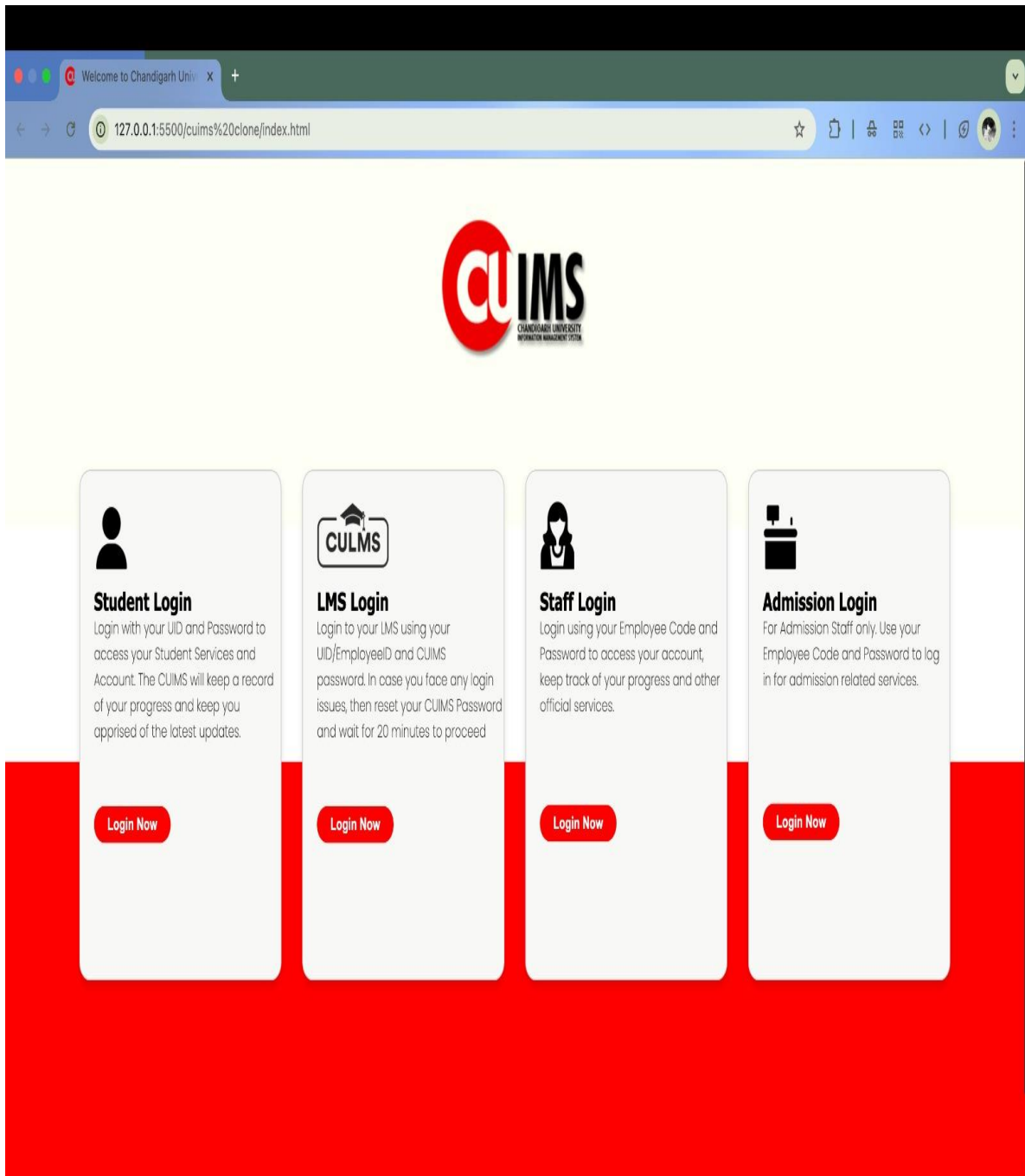
managed efficiently. The objective is to reduce paperwork and manual work through a responsive and interactive platform.

Technologies Used

- Frontend: HTML, CSS, TAILWIND
- Backend: PHP
- Database: MySQL
- Server: Apache (XAMPP)

Screenshots with Descriptions

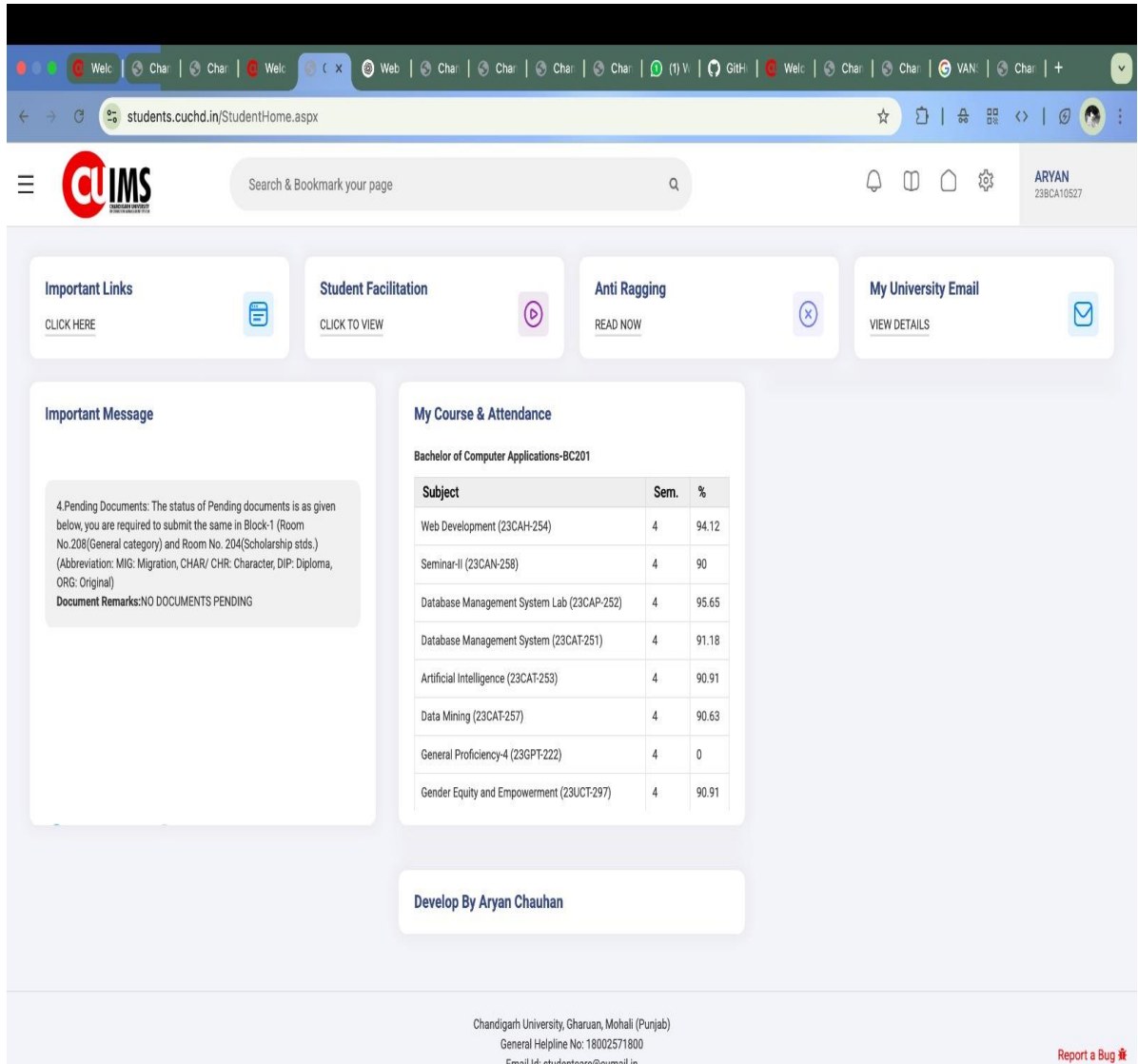
Home Page



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 screenshot displays the CUIMS Student Home Dashboard. The browser address bar shows `students.cuchd.in/StudentHome.aspx`. The dashboard header includes the CUIMS logo, a search bar, and a user profile for ARYAN (23BCAT10527). The main content area is divided into several sections:

- Important Links:** A button labeled "CLICK HERE".
- Student Facilitation:** A button labeled "CLICK TO VIEW".
- Anti Ragging:** A button labeled "READ NOW".
- My University Email:** A button labeled "VIEW DETAILS".
- Important Message:** A message box stating: "4 Pending Documents: The status of Pending documents is as given below, you are required to submit the same in Block-1 (Room No.208(General category) and Room No. 204(Scholarship stds.) (Abbreviation: MIG: Migration, CHAR/ CHR: Character, DIP: Diploma, ORG: Original) Document Remarks:NO DOCUMENTS PENDING".
- My Course & Attendance:** A table showing attendance for the Bachelor of Computer Applications-BC201 program.

The attendance table is as follows:


Subject	Sem.	%
Web Development (23CAH-254)	4	94.12
Seminar-II (23CAN-258)	4	90
Database Management System Lab (23CAP-252)	4	95.65
Database Management System (23CAT-251)	4	91.18
Artificial Intelligence (23CAT-253)	4	90.91
Data Mining (23CAT-257)	4	90.63
General Proficiency-4 (23GPT-222)	4	0
Gender Equity and Empowerment (23UCT-297)	4	90.91

At the bottom of the dashboard, it says "Develop By Aryan Chauhan". The footer contains contact information for Chandigarh University, Gharuan, Mohali (Punjab), including a General Helpline No: 18002571800 and Email Id: studentcare@cumail.in. There is also a "Report a Bug" link.


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


Add Student Page


SMS

 Admin
admin@gmail.com

DASHBOARD


Dashboard 


Class 


Students 


> Add Students


> Manage Students


Homework 

Notice 



Public Notice 

Pages 

Reports 

Search 

Admin Welcome dashboard!

 Admin 

Dashboard / Add Students

Add Students

Student details

Student Name

Student Email

Student Class

Select Class

Gender

Choose Gender

Date of Birth

mm/dd/yyyy

Student ID

Student Photo

Choose File

No file chosen

Login details

User Name

Password

Add

Parents/Guardian's details

Father's Name

Mother's Name

Contact Number

Alternate Contact Number

Address

Student Management System

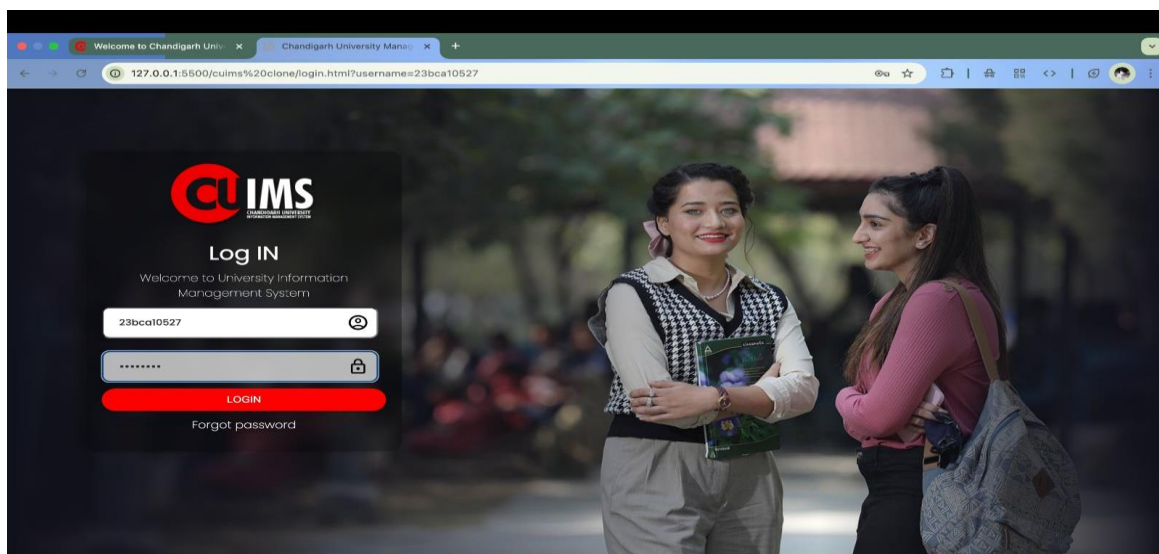
This page allows admin to add student records including name, email, contact, class, and DOB. Data is validated and stored in the database.

Add Homework Page

The screenshot shows the 'Add Homework' page within the 'SMS' (Student Management System) dashboard. On the left is a dark sidebar with a menu including 'Dashboard', 'Class', 'Students', 'Homework' (with sub-items 'Add' and 'Manage'), 'Notice', 'Public Notice', 'Pages', 'Reports', and 'Search'. The main content area has a header 'Admin Welcome dashboard!' and a user profile 'Admin'. Below the header is a breadcrumb trail 'Dashboard / Add Homework'. The 'Add Homework' form contains the following fields: 'Homework Title' (text input), 'Homework For' (dropdown menu with 'Select Class' selected), 'Homework Description' (large text area), and 'Last Date of Submission' (date picker showing 'mm/dd/yyyy'). A teal 'Add' button is at the bottom of the form. The footer of the page reads 'Student Management System'.

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