



North South University

Department of Electrical and Computer Engineering

Project Report

School Management System

CSE311 – Database Management System

Section – 3

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Introduction

Education now plays a significant role in the development of any country. Many educational organizations work to improve educational quality. One aspect of this improvement is the management of school resources. But for school containing more than 50 students it's quite impossible to store the information of the teachers and students efficiently through stacks of papers. It is also impossible to make small changes, ensure security of the information or to get easy access of the information. In a nutshell, a management application manages educational institution by making the processes easier, as well as allowing them to be more efficient in their respective roles.

About School Management System

An administrative web application designed to simplify and automate the works to increase productivity.

In this web application an administrator can easily save the information of teachers and students and also can update, save information, keep track of everything and maintain the security of the information easily.

It is platform available for running on a Local Area Network (LAN). It is used for handling all teachers and students details, also has information about student and teacher details, personal details and other details. Here all the work is computerized.

Repository link: [School Management System | GitHub](#)

Scope of this application

- Any school or college.
- It can also be used in universities and modifications can be done easily according to requirements.

Purpose and Objective of School Management System

The main objective of this application is to enhance the manageability of the administrative works.

- The information of the students, teachers can be managed easily by the administration efficiently.
- The students and their guardians can see the student's grades, class routine, attendance report, school notices.
- The teachers can easily give grades, attendance to the students, see their progress.
- The students can also contact their teachers if they need help.

Web application description and features

The web page will open with a general view and anyone accessing the domain will be able to view it. Here all the school notices, admission notices, achievements of school will be seen. At the top left/right corner of a vertical tab there will be a log in button. From where a student or a teacher with their ID and password to log in to their profile. Initially an account is created by the admins and they also set their ID, password, the password can be later changed by the user.

A student can:

- View their attendance.
- View school wise notices.
- View class notices and routine.
- View their grade.

A teacher can:

- Take attendance of their assigned class.
- See class routine.
- Grade the students.

Admins can:

- Add / remove teachers and students.
- Add / delete / edit notices.
- Create or modify routines.

Use story

Use case 1:

In order to give attendance:

- Class teacher will have to login to his profile.
- After that he will be able to give attendance to his/her students.

Use case 2:

If student wants to view his/her academic record:

- He/she will have to login to his/her profile.
- There he/she can find an option regarding academic history.

Use case 3:

In order to add new student or teacher:

- Admin needs to login in his/her profile.
- There he/she can find an option regarding adding new student/teacher.

Use case 4:

In order to edit basic information:

- Student/Teacher need to sign in to their profiles.
- Then in the profile section they will be able to view/edit their information.

Limitations

- This application doesn't support sending confirmation phone sms or have forgot password option at this point.
- For the above reason to recover password, he/she will have to contact admin.

Tools and resources:

- HTML
- CSS
- JavaScript
- MySQL
- PHP

Database table design

1. admin

<u>id</u>	int(11) AI PK
email	varchar(35)
password	varchar(32)

2. attendance

<u>stdid</u>	int(11) PK
<u>clsid</u>	int(11) PK
date	date
status	enum('p','a')

3. class

<u>id</u>	int(11) AI PK
classTeacherID	int(11)

4. grade

<u>student</u>	int(11) PK
<u>id</u>	int(11) PK
grade	enum('A','A-','B','B-','C','D','I')

cgpa	decimal(4,2)
date	date

5. notice

<u>id</u>	int(11) AI PK
content	text
date	date

6. schedule

<u>id</u>	int(11) AI PK
cid	int(11)
subid	int(11)
day1	enum('SUN','MON','TUES','WED','THURS')
day2	enum('SUN','MON','TUES','WED','THURS')
time	time

7. student

<u>id</u>	int(11) AI PK
name	varchar(50)
current_class	int(11)
phone	varchar(12)
email	varchar(32)
gender	enum('Male','Female','Others')
password	varchar(30)
address	varchar(120)
dob	date

8. studentsclassrecord

studentID	int(11)
classID	int(11)
total_attendance	int(11)
total_grade	decimal(5,2)

grade	decimal(5,2)
finishing_year	date
starting_year	date

9. studentsinclass

classID	int(11)
studentid	int(11)
year	year(4)

10. subject

<u>id</u>	int(11) AI PK
name	varchar(50)
subjectTeacher	int(11)

11. Subjectsinclass

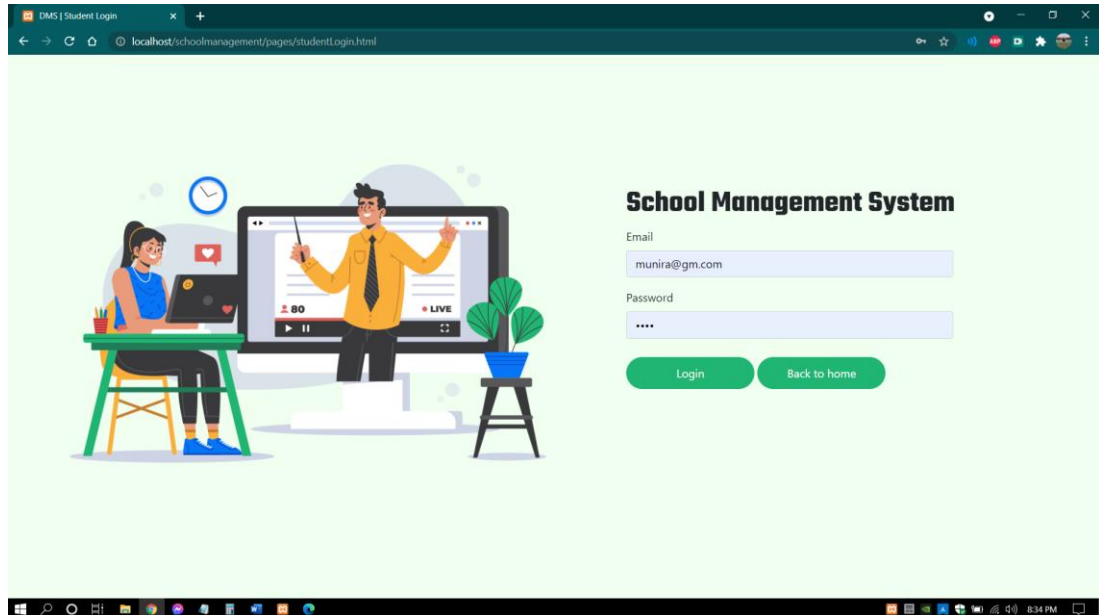
<u>id</u>	int(11) AI PK
classID	int(11)
subjectID	int(11)

12. Teacher

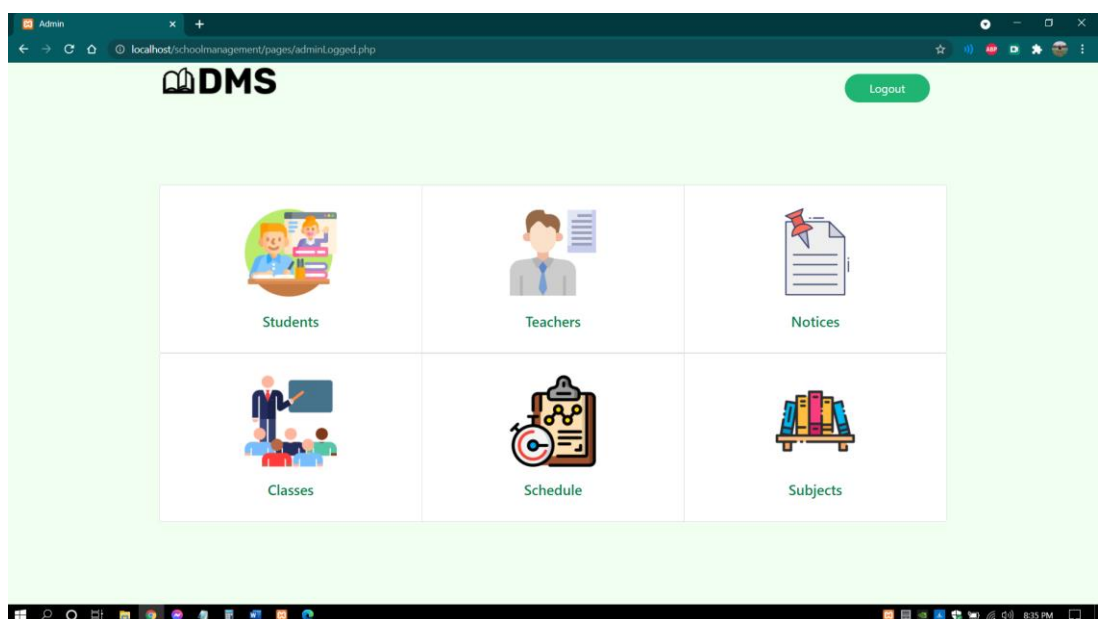
<u>id</u>	int(11) AI PK
name	varchar(50)
phone	varchar(12)
email	varchar(32)
gender	enum('Male','Female','Others')
password	varchar(30)
address	text
dob	date

Some screenshots of the project

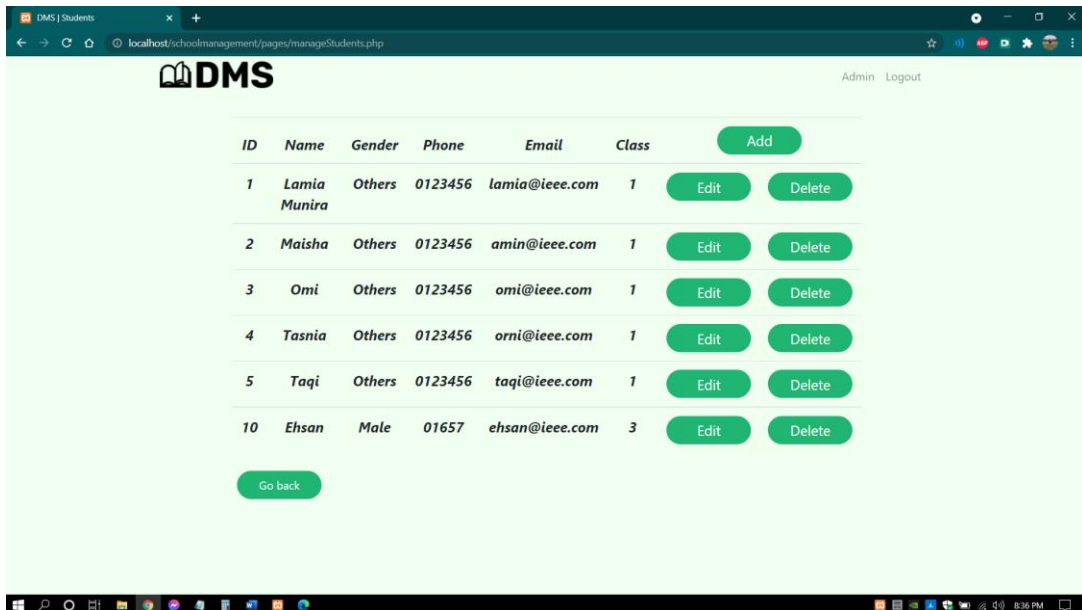
- **Sign in page**



- **Admin landing page**



- Manage students' page

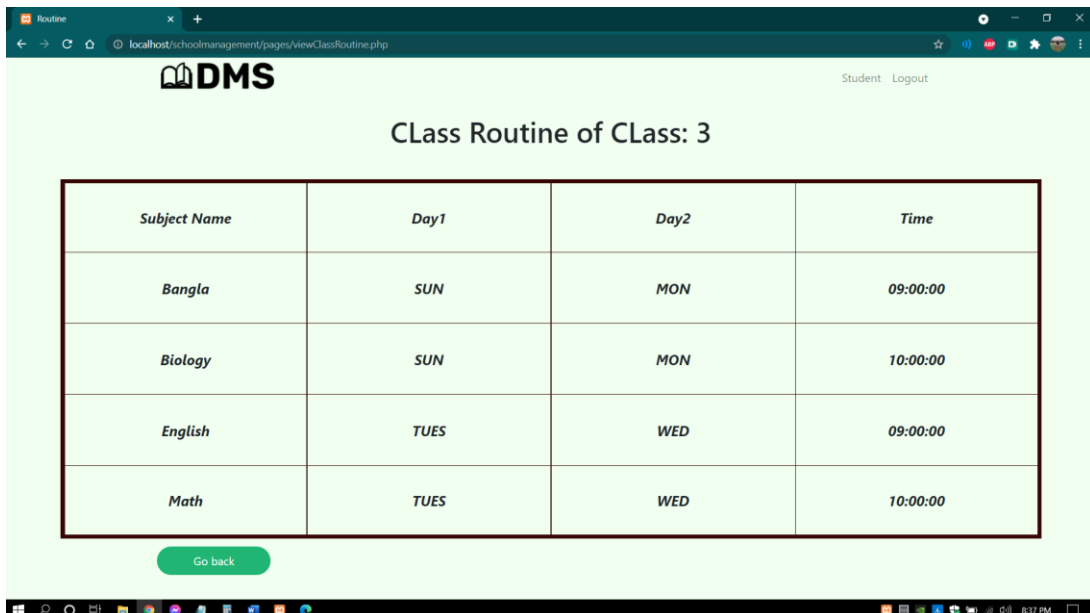


The screenshot shows a web browser window with the URL `localhost/schoolmanagement/pages/manageStudents.php`. The page is titled "DMS" and has a navigation bar with "Admin" and "Logout" links. The main content area displays a table of students with columns: ID, Name, Gender, Phone, Email, and Class. There are "Add", "Edit", and "Delete" buttons for each student. A "Go back" button is at the bottom.

ID	Name	Gender	Phone	Email	Class	
1	Lamia Munira	Others	0123456	lamia@ieee.com	1	Add Edit Delete
2	Maisha	Others	0123456	amin@ieee.com	1	Edit Delete
3	Omi	Others	0123456	omi@ieee.com	1	Edit Delete
4	Tasnia	Others	0123456	orni@ieee.com	1	Edit Delete
5	Taqi	Others	0123456	taqi@ieee.com	1	Edit Delete
10	Ehsan	Male	01657	ehsan@ieee.com	3	Edit Delete

[Go back](#)

- Class routine page

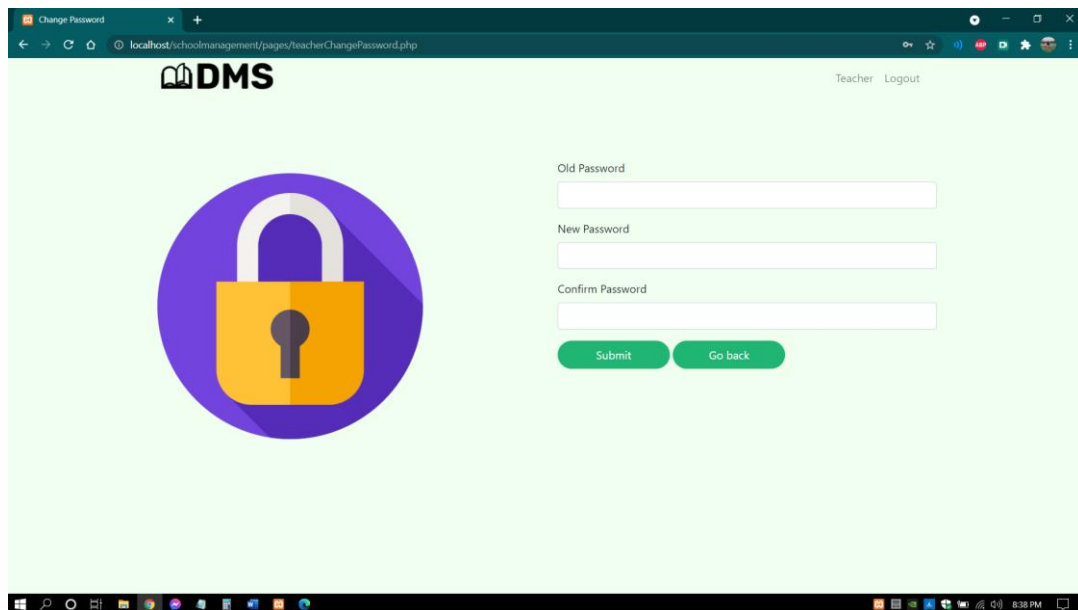


The screenshot shows a web browser window with the URL `localhost/schoolmanagement/pages/viewClassRoutine.php`. The page is titled "DMS" and has a navigation bar with "Student" and "Logout" links. The main content area displays the title "Class Routine of Class: 3" and a table with columns: Subject Name, Day1, Day2, and Time. A "Go back" button is at the bottom.

Subject Name	Day1	Day2	Time
Bangla	SUN	MON	09:00:00
Biology	SUN	MON	10:00:00
English	TUES	WED	09:00:00
Math	TUES	WED	10:00:00

[Go back](#)

- Password change page



Change Password

localhost/schoolmanagement/pages/teacherChangePassword.php

DMS Teacher Logout

Old Password

New Password

Confirm Password

Submit Go back

Conclusion

Educational institutions can use a Student Management System to easily maintain their student records. Using the manual system, achieving this goal is difficult because information is dispersed, can be redundant, and gathering relevant information can be time-consuming. This project addresses all of these issues.

This system aids in the preservation of information about the organization's students. It is easily accessible by the admin and can be kept safe for an extended period of time without any changes.

Appendix

Contact information

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