

# **SCHOOL ATTENDANCE MANAGEMENT SYSTEM**

## **A Project Report**

*Submitted to*



**ASSAM DON BOSCO UNIVERSITY**

*by*

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*in partial fulfilment for completion of Mini Project*

*of*

**FIFTH SEMESTER**

**OF**

**BACHELOR OF COMPUTER APPLICATIONS**

**DEPARTMENT OF COMPUTER APPLICATIONS**

**SCHOOL OF TECHNOLOGY**

**ASSAM DON BOSCO UNIVERSITY**

**AZARA, GUWAHATI 781017,**

**ASSAM, INDIA.**

**BATCH (2019-2022)**

## **CERTIFICATE**

This is to certify that the Project Report entitled "**SCHOOL ATTENDANCE MANAGEMENT SYSTEM**" submitted by **MANEKHO EKHE (DC2019BCA0014)**, **JAMES VANLALPEKA (DC2019BCA0018)** and **ANKIT PRADHAN (DC2019BCA0030)** to the Assam Don Bosco University, Guwahati, Assam, in partial fulfilment of the requirement for Mini project of 5<sup>th</sup> semester of Bachelor of Computer Applications. It is a bonafide record of the project work carried out by them under my supervision during the semester September 2021 to January 2022.

(Signature of the Internal Guide)

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## **EXAMINATION CERTIFICATE**

This is to certify that **MANEKHO EKHE, JAMES VANLALPEKA and ANKIT PRADHAN** bearing **DC2019BCA0014, DC2019BCA0018 and DC2019BCA0030 respectively** of the Department of Computer Applications has carried out the Project Work in a manner satisfactory to warrant its acceptance and also defended it successfully.

We wish them all the success in their future endeavours.

Examiners:

01. Internal Examiner:

02. Internal Examiner:

## **DECLARATION**

I hereby declare that the project work entitled "**SCHOOL ATTENDANCE MANAGEMENT SYSTEM**" submitted to the Assam Don Bosco University, Guwahati, Assam, in partial fulfilment of the requirement for Mini project of 5<sup>th</sup> semester of Bachelor of Computer Applications. It is an original work done by me under the guidance of **Dr Uzzal Sharma (Asst.Professor)** and has not been submitted for the award of any degree.

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## ACKNOWLEDGEMENT

The success and final outcome of this project required a lot of guidance and assistance from many people and I am extremely privileged to have this all along the completion of our project. All that I have done is only due to supervision, assistance and would not forget to thank them.

I would like to express my special thanks to my guide **Dr Uzzal Sharma (Asst. Professor)**, who gave me the golden opportunity to do this project of "**School Attendance Management system**" for providing such nice support and guidance and helping us throughout the entire project .

I am thankful to and fortunate enough to get constant encouragement, support and guidance from our coordinator **Ms Usha Mary Sharma (Asst. Professor)** of DEPARTMENT OF COMPUTER APPLICATIONS which helped us in successfully completing our project work. Also, I would like to extend our sincere regards to all staff in the laboratory for their timely support.

I also would like to thank my friends who put in the work constantly and last but not the least my Parents who have supported and guided me in completing the project directly or indirectly.

## **ABSTRACT**

This document is meant for describing all the features and procedures that were followed while developing the system. This document specially mentions the details of the project and how it was developed, the primary requirement, as well as various features and functionalities of the project and the procedures followed in achieving these objectives.

Over the years manual attendance management has been carried across most educational institutions. To overcome the problems of manual attendance, we have developed “web based attendance Management System and Mobile Android Version”.

School Attendance Management System is based on a web server, which can be implemented on any computer or Android Phone. In this application, PHP is server side language, MySQL and PHP is used as back-end design and HTML, CSS and JavaScript is used as front-end tools.

The system communicates with databases residing on a remote server. It automatically calculates the attendance percentage of students Without any manual paper-based work.

The system facilitates the end users with interactive design and automated processing of attendance management. With the effective use, any Institute can apply the “School Attendance Management System” for conducting quick attendance and getting better results in less time.

**LIST OF TABLES**

Table	Title	Page
2.1	Software Specification	12
2.2	Hardware Specification	13

## LIST OF FIGURES

<b>Figure</b>	<b>Title</b>	<b>Page</b>
2.1	WBS for “School Attendance Management System”	5
2.2	Gantt Chart for “School Attendance Management System”	5
3.1	Use Case diagram.	7
3.2	Entity Relationship Diagram	8
3.3	Schema Diagram	9
3.4	Admin Activity Diagram	10
3.5	Teacher Activity Diagram	11
3.6	Student Activity Diagram	12
4.1	User Login Page	13
4.2	Admin Home Page	13
4.3	Admin Home Page Mobile View (Responsive page)	14
4.4	Add Teacher	15
4.5	Bulk Delete Teacher Profile	15
4.6	Delete Teacher Profile by searching their Id	16
4.7	Add Subject	16
4.8	Delete Subject on Bulk	17
4.9	Add Class	17
4.10	Display Class and Update Subject Teacher	18
4.11	Delete Class	18
4.12	Add Student	19
4.13	Delete Student	19
4.14	Attendance Admin View	20

4.15	Teacher Home Page	20
4.16	Take Attendance	21
4.17	Display Attendance Teacher View	21
4.18	Student Home Page	22
4.19	Users Change Password	22
4.20	Database Attendance Table	23
4.21	Database Student Table	24

# **CONTENTS**

## **Title Page**

<b>ACKNOWLEDGMENTS</b>	i
<b>ABSTRACT</b>	ii
<b>LIST OF TABLES</b>	iii
<b>LIST OF FIGURES</b>	iv

## **CHAPTER 1 INTRODUCTION**

1.1 Objective	1
1.2 Introduction	1
1.3 Study of the existing system	2
1.4 Limitation of the existing system	2
1.5 Proposed plan	2
1.6 Features to be included in the proposed plan	2

## **CHAPTER 2 FEASIBILITY STUDY AND REQUIREMENT ANALYSIS**

2.1 Technical Feasibility	3
2.1.1 Software Specification	3
2.1.2 Hardware Specification	4
2.2 Schedule Feasibility	4
2.2.1 Work Breakdown Structure	4-5

2.2.2 Gantt Chart	<b>5</b>
2.3 Economic Feasibility	<b>5</b>
2.3.1 COCOMO Model	<b>6</b>
2.4 Operational Feasibility	<b>6</b>

## **CHAPTER 3 DESIGN DIAGRAMS**

3.1 Use Case Diagram	<b>7</b>
3.2 E- R Diagram	<b>8</b>
3.3 Schema Diagram	<b>9</b>
3.4 Activity Diagram	<b>10</b>
3.4.1 Admin Activity Diagram	<b>10</b>
3.4.2 Teacher Activity Diagram	<b>11</b>
3.4.3 Student Activity Diagram	<b>12</b>

## **CHAPTER 4 IMPLEMENTATION**

4.1 Login Module	<b>13</b>
4.1.1 User Login	<b>13</b>
4.2 Admin Module	<b>13</b>
4.2.1 Add Teacher	<b>15</b>
4.2.2 Delete Teacher	<b>15</b>
4.2.3 Add Subject	<b>16</b>
4.2.4 Delete Subject	<b>17</b>
4.2.5 Add Class	<b>17</b>

4.2.6 Display Class	<b>18</b>
4.2.7 Delete Class	<b>18</b>
4.2.8 Add Student	<b>19</b>
4.2.9 Delete Student	<b>19</b>
4.2.10 Attendance	<b>20</b>
4.3 Teacher Module	<b>20</b>
4.3.1 Teacher Home Page	<b>20</b>
4.3.2 Take Attendance	<b>21</b>
4.3.3 Display Attendance	<b>21</b>
4.4 Student Module	<b>22</b>
4.4.1 Show Attendance	<b>22</b>
4.5 Change Password	<b>22</b>
4.6 Database	<b>23</b>
4.6.1 Student Table	<b>23</b>
4.6.2 Attendance Table	<b>24</b>
<b>CHAPTER 5 CONCLUSION</b>	<b>25</b>
<b>REFERENCES</b>	<b>26</b>

## **CHAPTER 1**

### **INTRODUCTION**

#### **1 Objective**

The objective of developing an attendance management system is to computerize the traditional way of taking attendance.

This project has following objectives :

- Eliminate paperwork and save time.
- Eliminate duplicate data entry and errors in time and attendance entry.
- Automatic calculation of attendance percentage.
- To Increase security.

#### **1.2 Introduction**

In most educational institutions the attendance is taken manually which is not only time consuming, but it is also insecure and unreliable. It can be lost or damaged. It also uses a lot of paper which has a severe impact on the environment. To overcome these problems we will develop a better system which is Web based; it will be fully responsive where a user can use it in mobile, tablets and different computer systems. In this system records are kept safe and secure and the attendance information of particular or all students of a particular class can be accessed easily and without time consuming, the report will be generated automatically.

School Attendance Management System basically has four modules for proper functioning:

- First module is the login module which is responsible for the user's login.
- Second module is the admin module which is responsible for managing the teachers and the students.
- Third module is the teacher module which is responsible for taking attendance and displaying attendance for the provided date and can change password.
- Fourth module is the student module where the students have the privilege to view their own attendance and can change their password.

### **1.3 Study Of The existing system**

The Existing system is a manual entry for the students. Here the attendance will be carried out in the hand-written registers or book and keep a record of students in the register throughout the entire year and calculate the attendance percentage at the end of the year and give the attendance percentage manually to the students.

### **1.4 Limitation of existing system**

As the existing system is manually taken so there are some limitations.

- It will be a tedious job to maintain the record for the teachers.
- The human effort is more here.
- The retrieval of the information is not as easy as the records are maintained in the hand-written registers.
- Not secure.
- Error in entry at times.
- Time consuming

### **1.5 Proposed Plan**

To overcome the drawbacks of the existing system, the proposed system has been evolved. This project aims to reduce the paperwork and save time to generate accurate results from the student's attendance. The system provides the best user interface. The efficient reports can be generated by using this proposed system.

### **1.6 Features To Be Included In The Proposed Plan**

- Relatively fast approach to enter attendance.
- Students will be able to check their attendance anytime.
- Teachers will be able to check student's attendance anytime.
- Efficient reports will be generated easily.
- Teachers will be able to give attendance instantly.
- Students' attendance data will be recorded.
- Attendance data will be secure

## CHAPTER 2

### FEASIBILITY STUDY AND REQUIREMENT ANALYSIS

#### 2.1 Technical Feasibility

Project “School Attendance Management System” is a complete web based application. The main technologies and tools associated with this project are :

- OS - Ubuntu 20.04.3 LTS and Visual Studio Code (version 1.60)
- Web browser - Chrome 96.0.4664.45/ Mozilla Firefox 94.0
- Front end - HTML 5, CSS 3 and JavaScript - ES2015 and Framework - Bootstrap 4
- Back end - PHP 7.4.3 and SQL and Database – mysql Ver 8.0.27-0ubuntu0.20.04.1

Each of the technologies mentioned above are freely available and the technical skills required are manageable. Time limitation of the project development and the ease of implementing these technologies are synchronized. From this point of view it is clear that the project “School Attendance Management System” is technically feasible.

#### 2.1.1 Software Specification

SL. NO	TYPE	SPECIFICATION
1	Operating System	Ubuntu 20.04.3 LTS
2	IDE	Visual Studio Code 1.60
3	Web Browser	Chrome 96.0.4664.45/ Mozilla Firefox 94.0
4	Front end	HTML 5, CSS 3 and JavaScript - ES2015
5	Framework	Bootstrap 4
6	Back end	PHP 7.4.3 and SQL
7	Database	mysql Ver 8.0.27-0ubuntu0.20.04.1

Table 2.1 Software Specification

### **2.1.2 Hardware Specification**

<b>SL. NO.</b>	<b>TYPE</b>	<b>SPECIFICATION</b>
1	Processor	2GHz and above
2	HDD	500 GB and above
3	RAM	4 GB and above

Table 2.2 Hardware Specification

## **2.2 Schedule Feasibility**

### **2.2.1 Work Breakdown Structure**

Starting date of the project = 06/09/2021

Ending date of the project = 31/12/2021

Therefore, the total number of days = 100 days (excluding sunday)

Also,

Total numbers of working hours/day = 2 hours

Therefore, the total number of working hours for completing the project =  $100 * 2$   
= 200 hours

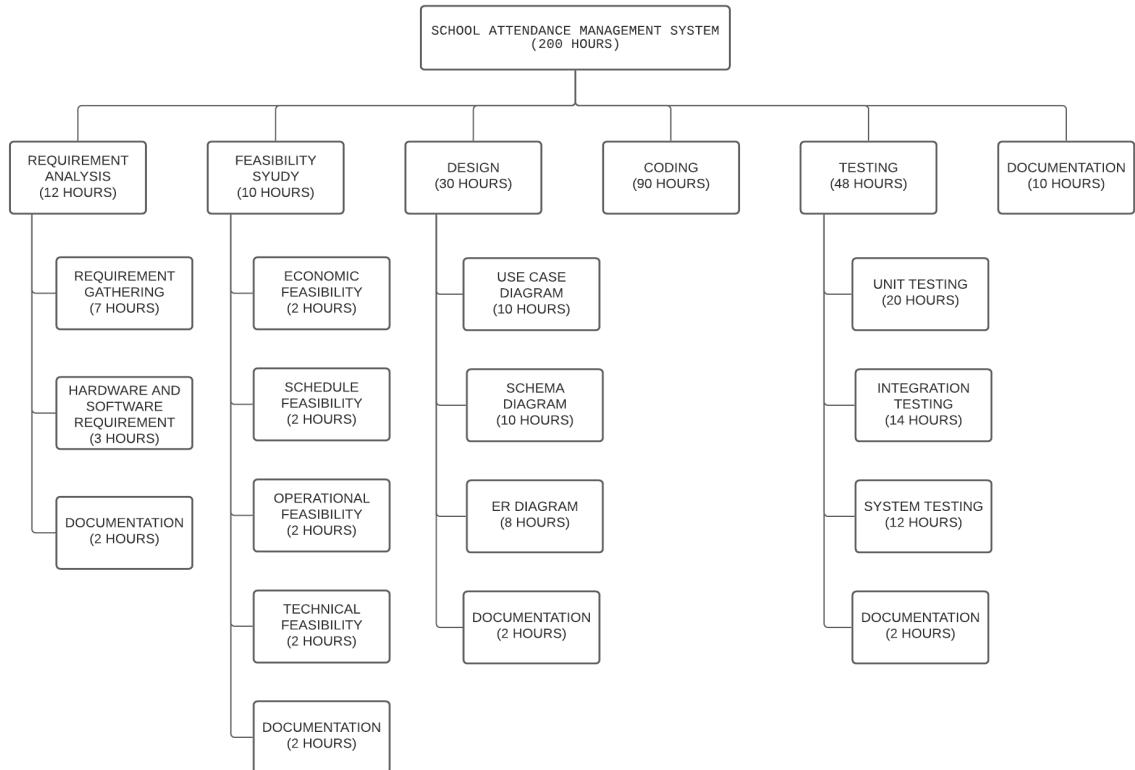


Figure 2.1 WBS for School Attendance Management System

### 2.2.2 Gantt Chart

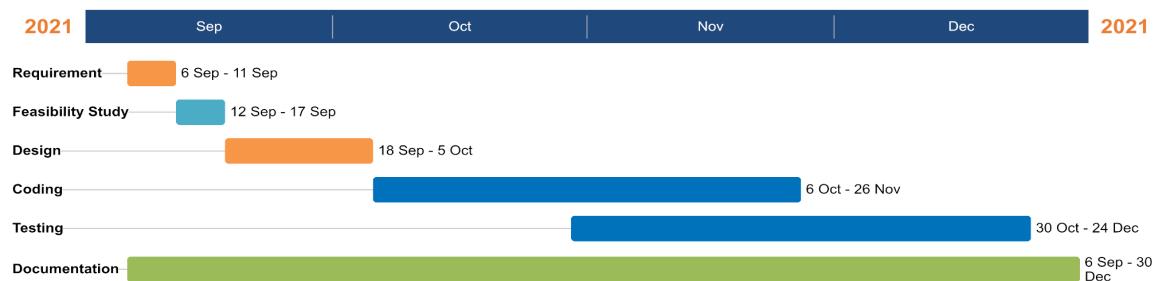


Figure 2.2 Gantt Chart for “School Attendance Management System”

### 2.3 Economic Feasibility

The system being developed is economically feasible as the software is freely available on the internet which can be easily downloaded and used. Also the hardware needed to develop the system is our personal computer (i.e, laptop) which will be able to develop the system.

### **2.3.1 COCOMO Model**

Our project type is a semi detached type. So, the Basic COCOMO Model for our project is:  
Estimated KLOC = 1.5

#### **Estimation of development effort**

$$\begin{aligned}\text{Effort} &= 3.0 (\text{KLOC})^{1.12} \text{ PM} \\ &= 3.0 (1.5)^{1.12} \\ &= 3.0 * 1.57478841108 \\ &= 4.72436523324 \\ &= 4.72 \text{ PM}\end{aligned}$$

Where, PM = Person Month

#### **Estimation of development time**

$$\begin{aligned}\text{Tdev} &= 2.5 (\text{Effort})^{0.35} \text{ Months} \\ &= 2.5 (4.72)^{0.35} \\ &= 2.5 * 1.72139167985 \\ &= 4.30347919963 \\ &= 4.30 \text{ Months}\end{aligned}$$

#### **Estimation of People required**

$$\begin{aligned}P &= \text{Effort}/\text{Tdev} \\ &= 4.72/4.30 \\ &= 1.0976744186 \\ &= 1 \text{ (approximately)}\end{aligned}$$

The estimated development time of our project is 4.30 Months which will require 1 Person.  
As we have a limited time of approximately 2.5 months to complete this project we will  
require more people to develop this project.

Since we have 3 members in our group the project development time is justified.

## **2.4 Operational Feasibility**

The proposed system is operationally feasible as the final output of the project can be used by the users and it will be easy and user friendly to use. The proposed system does not require special training to operate the web application. This website will fulfil the need for the user in emergency situations.

## CHAPTER 3

### DESIGN DIAGRAMS

#### 3.1 Use Case Diagram



Figure 3.1 Use Case diagram.

### 3.2 ER Diagram

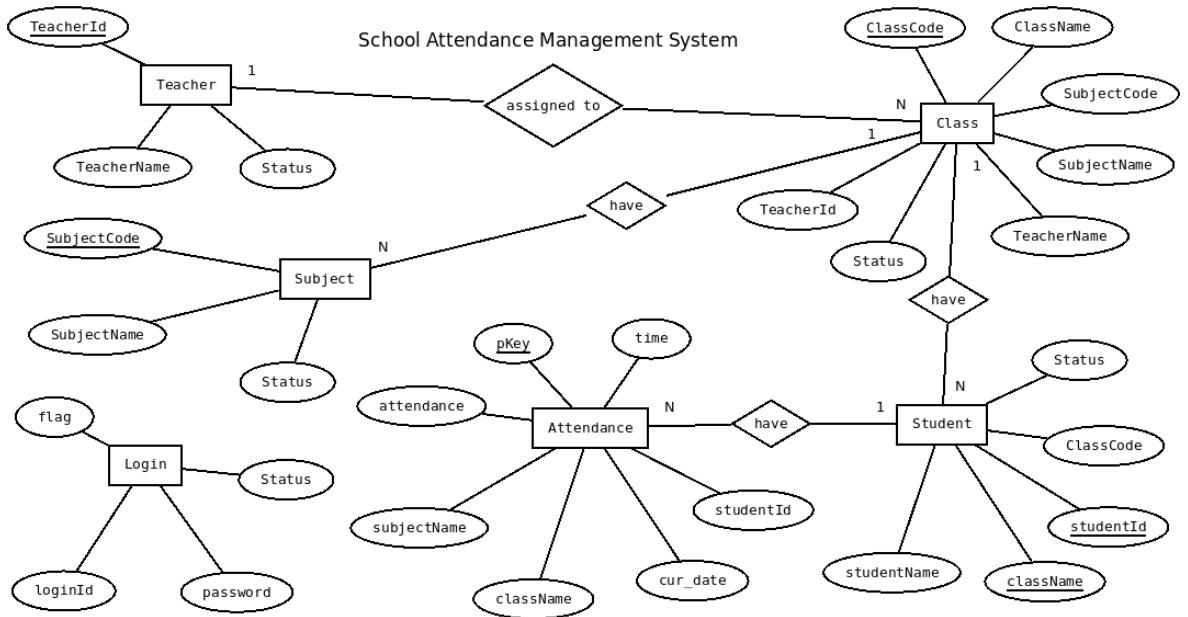


Figure 3.2 Entity Relationship Diagram

### 3.3 Schema Diagram

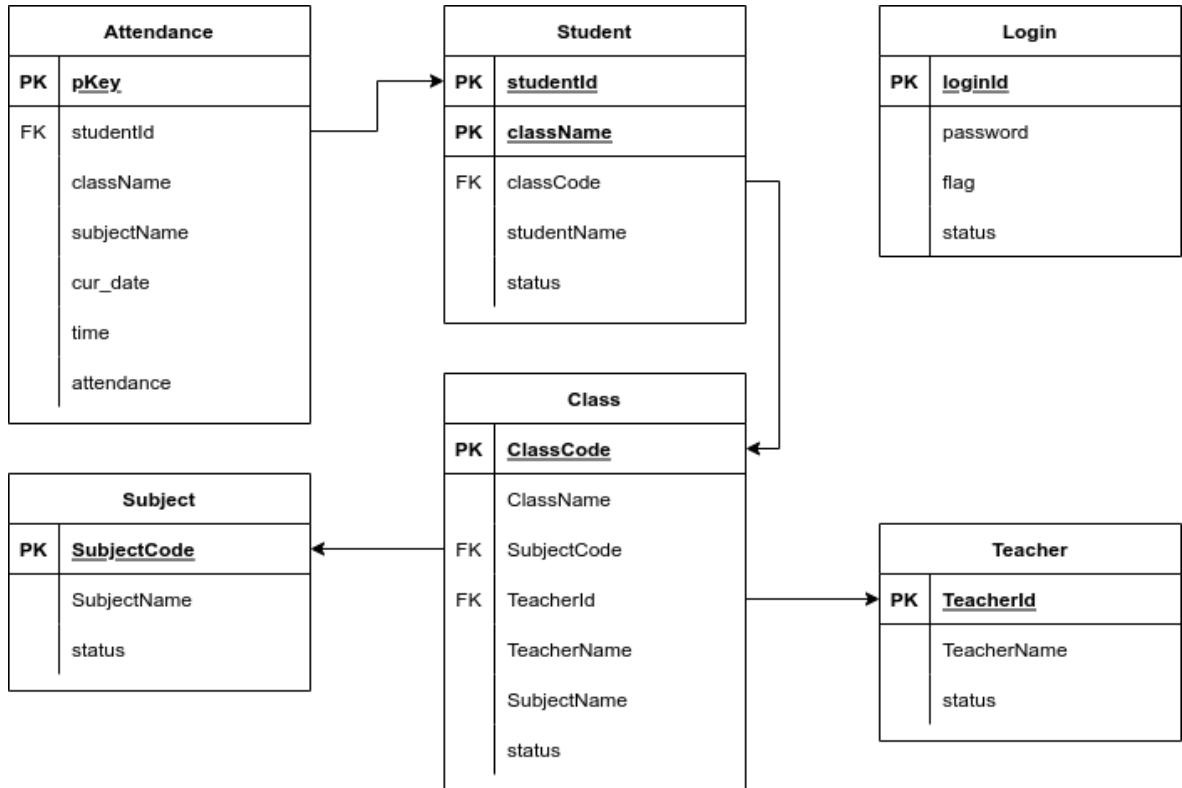


Figure 3.3 Schema Diagram

## 3.4 Activity Diagram

### 3.4.1 Admin Activity Diagram

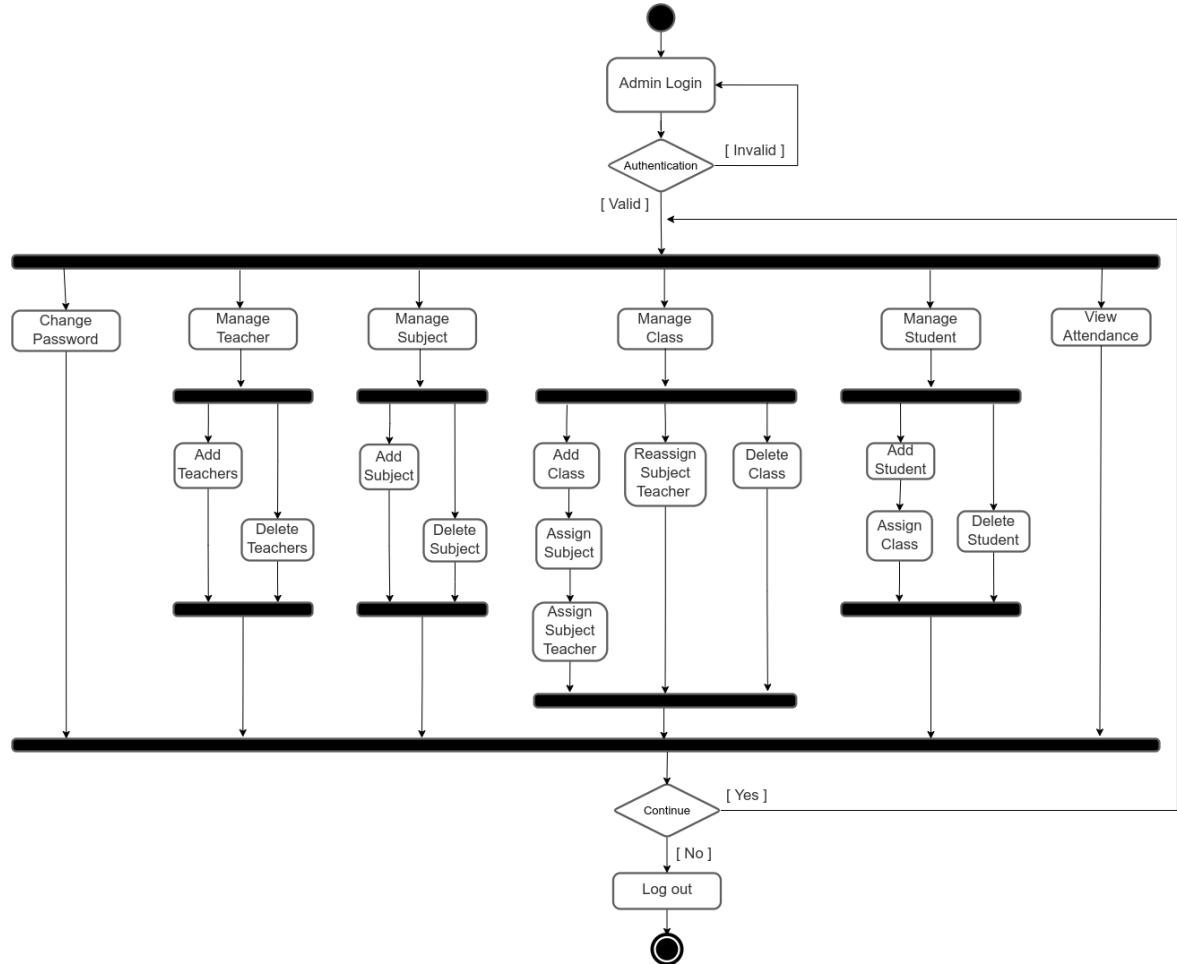


Figure 3.4 Admin Activity Diagram

### 3.4.2 Teacher Activity Diagram

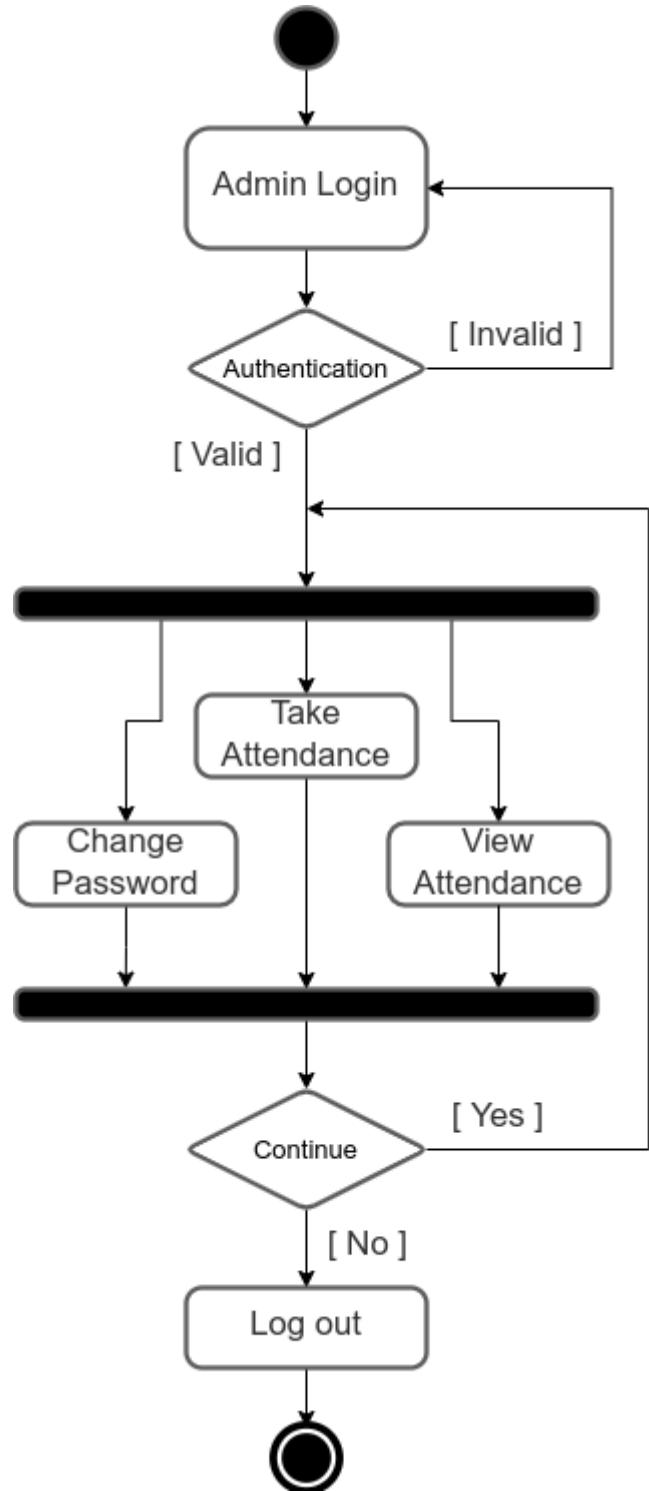


Figure 3.5 Teacher Activity Diagram

### 3.4.3 Student Activity Diagram

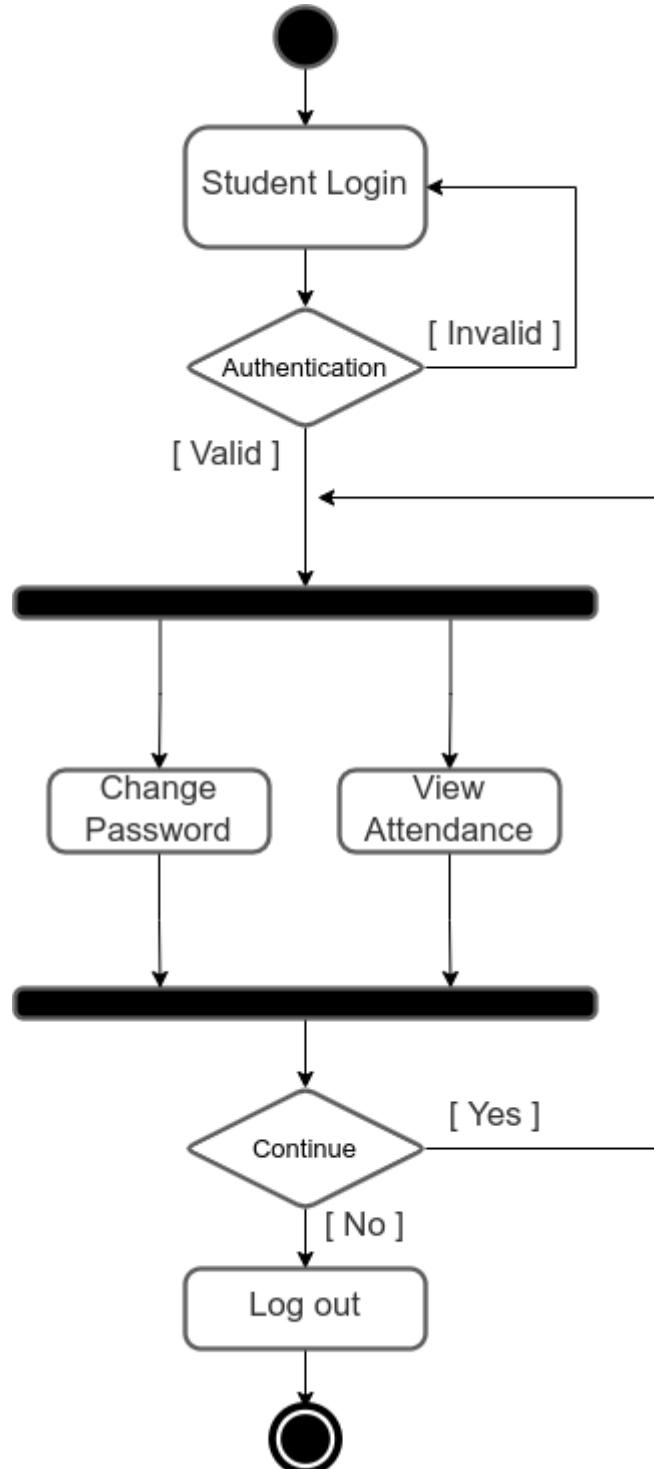


Figure 3.6 Student Activity Diagram

## CHAPTER 4

## IMPLEMENTATION

### 4.1 Login Module

**4.1.1 User Login :** All the three types of users have their own separate login.

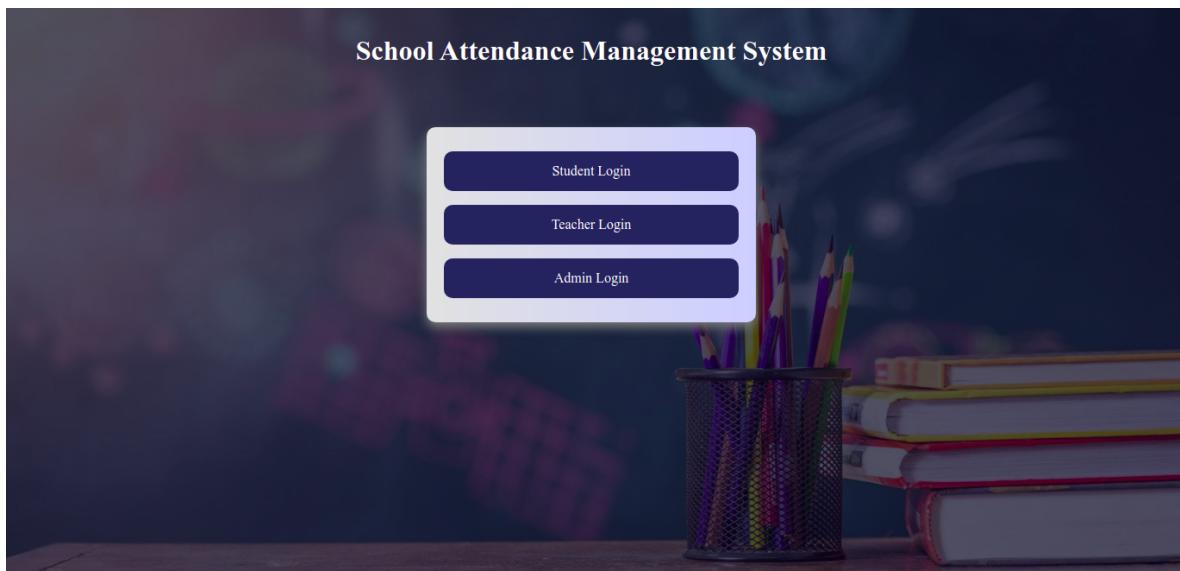


Figure 4.1 User Login Page

### 4.2 Admin Module

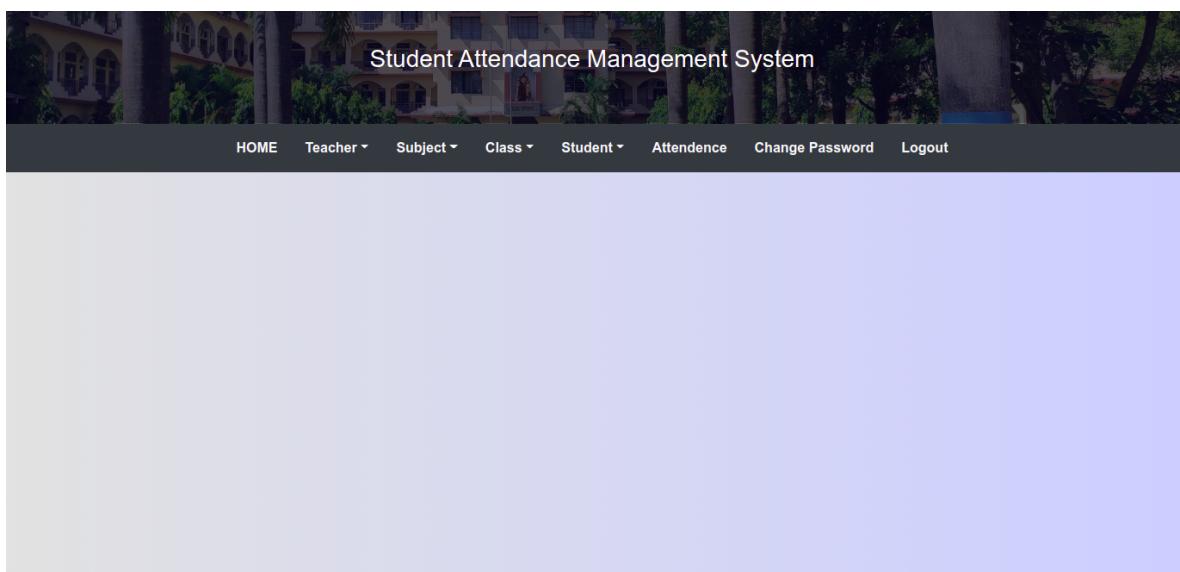


Figure 4.2 Admin Home Page

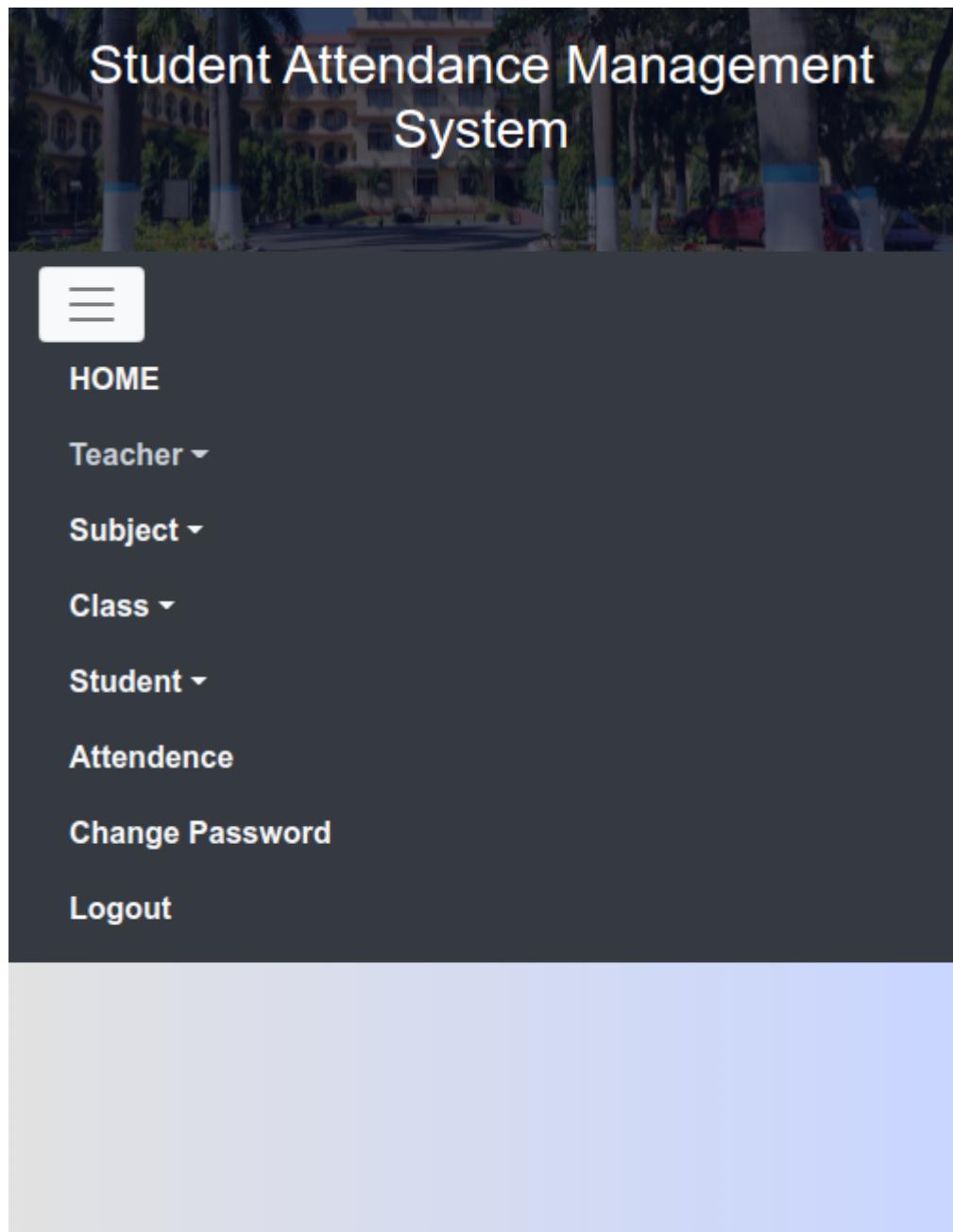


Figure 4.3 Admin Home Page Mobile View (Responsive page)

**4.2.1 Add Teacher :** Admin can add a teacher where the loginId and password will be automatically generated as Faculty1, here 1 can be based on their User Id.

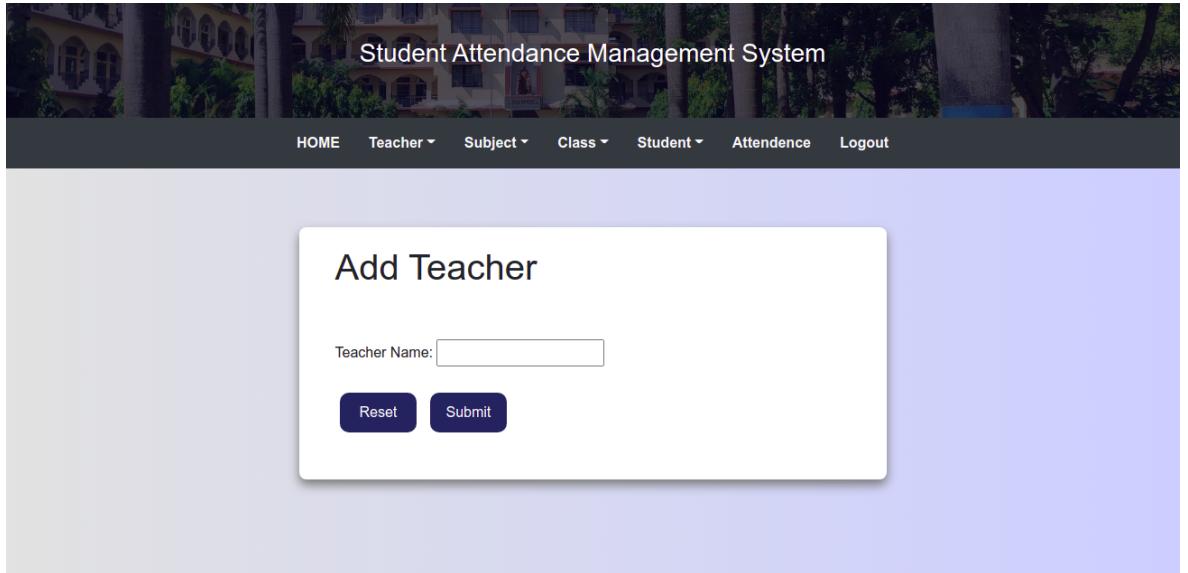


Figure 4.4 Add Teacher

**4.2.2 Delete Teacher :** Teachers can be deleted on bulk operation by selecting the teacher to be deleted or by searching teachers based on their Id number.

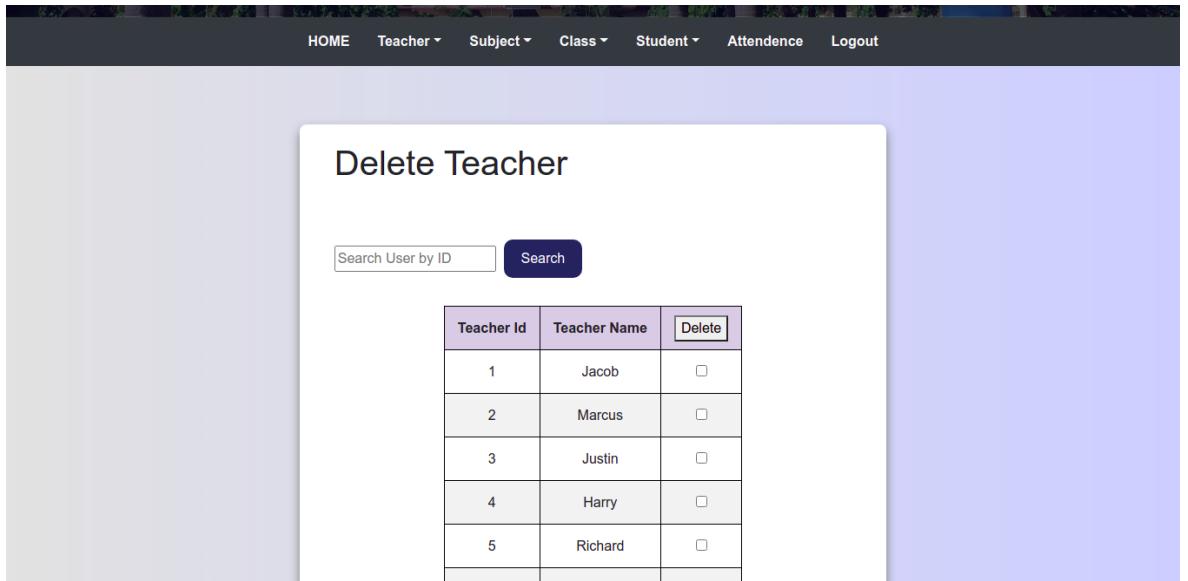


Figure 4.5 Bulk Delete Teacher Profile

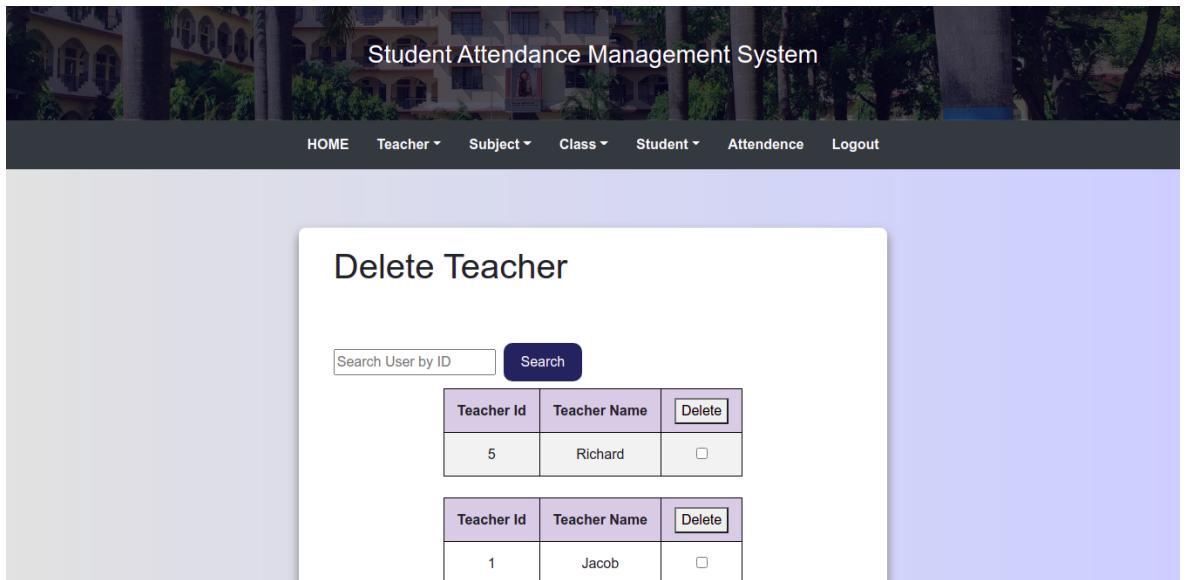


Figure 4.6 Delete Teacher by searching their Id

**4.2.3 Add Subject:** Admin will be able to add the subject.

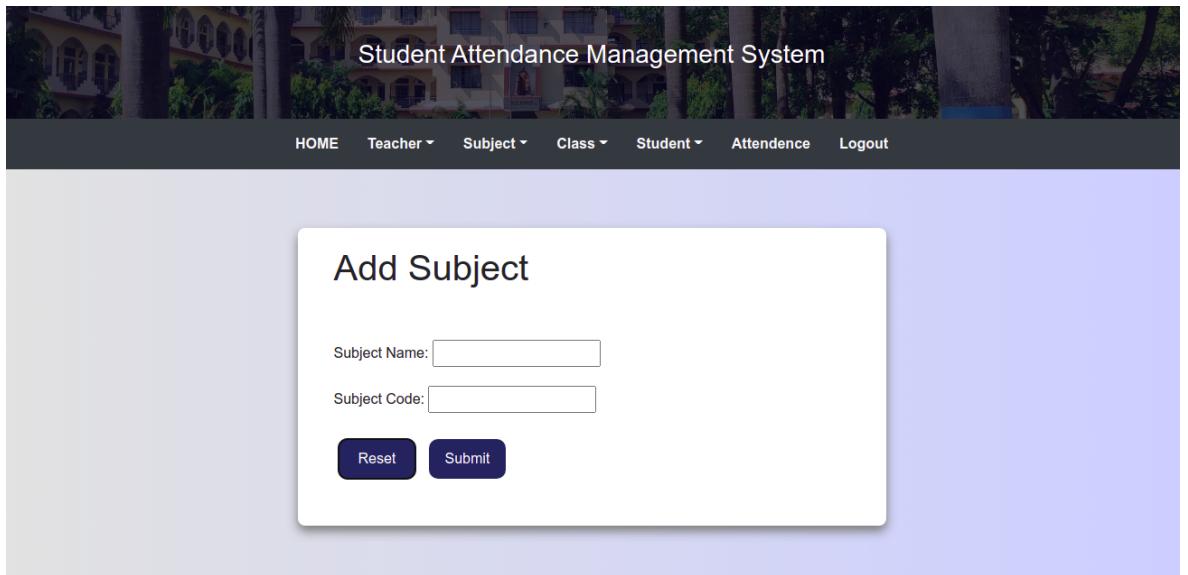


Figure 4.7 Add Subject

**4.2.4 Delete Subject:** Subject can be deleted on bulk operation.

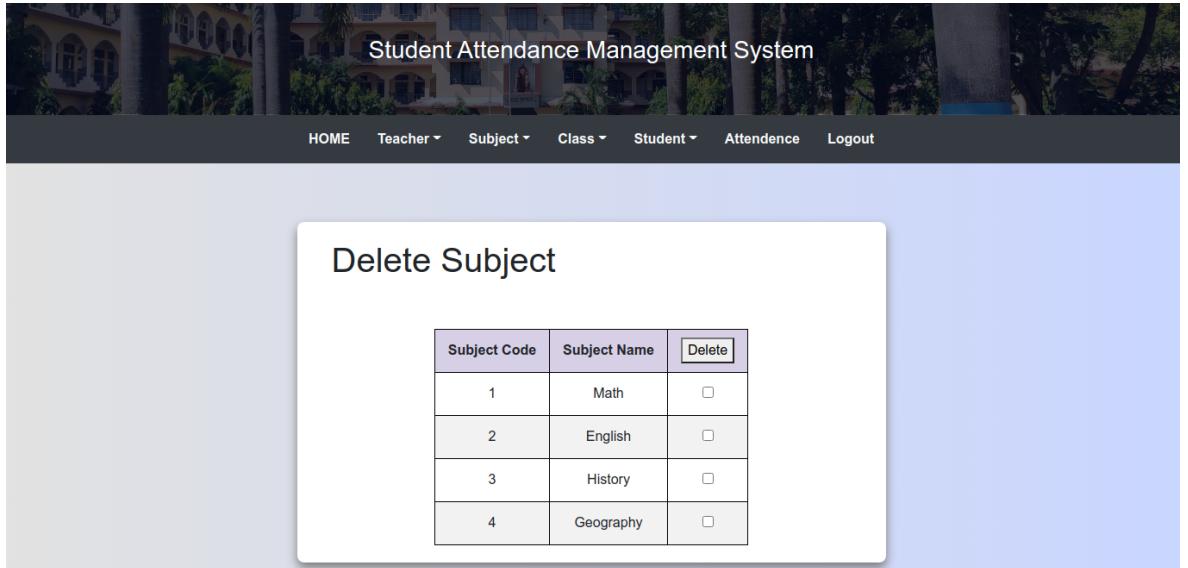


Figure 4.8 Delete Subject on Bulk

**4.2.5 Add Class:** Admin will add the class and select the subject for the class and assign a teacher in each subject.

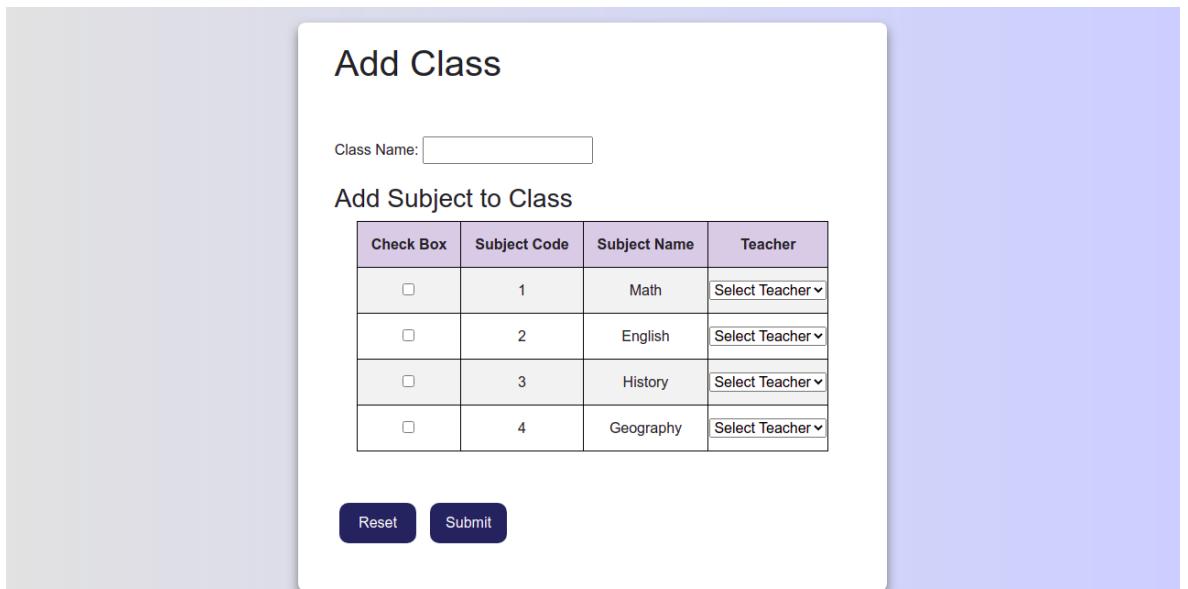


Figure 4.9 Add Class

**4.2.6 Display Class:** Admin will be able to display the class and its data and reassign the subject teacher.

The screenshot shows a modal window titled "Display Class". At the top, there is a label "Select Class Name" followed by a dropdown menu with the option "Class". Below the dropdown are two buttons: "Reset" and "Submit". Underneath the buttons, the text "Class-1" is displayed. A table titled "Subject Name" is shown, listing four subjects: Math, English, History, and Geography. Each row contains the subject name, the current teacher name (all listed as "NULL"), and a "Select Teacher" dropdown menu. The table has three columns: Subject Name, Teacher Name, and Update Teacher.

Subject Name	Teacher Name	Update Teacher
Math	NULL	Select Teacher
English	Nick	Select Teacher
History	NULL	Select Teacher
Geography	NULL	Select Teacher

Figure 4.10 Display Class and Update Subject Teacher

**4.2.7 Delete Class:** Admin can delete class by selecting the class.

The screenshot shows a modal window titled "Delete Class". At the top, there is a label "Select Class Name" followed by a dropdown menu with the option "Class". Below the dropdown are two buttons: "Reset" and "Submit".

Figure 4.11 Delete Class

**4.2.8 Add Student:** Admin can add student if more student need to be added than more rows can be added by clicking Add Row button and assigning the class, the student ID number, loginID and password will be automatically generated, loginId and password will be generated by joining studentId and class name.

The screenshot shows a modal window titled "Student Attendance Management System". Inside, there are four rows of student names with "Remove" buttons: "Evadonna", "Madeline", "Raphael", and "Enter Name". Below these is a green "Add Row" button. At the bottom are three buttons: "Select Class", "Reset", and "Submit".

Figure 4.12 Add Student

**4.2.9 Delete Student:** For deleting Student, admin has to select class and then click submit to list out all the students belonging to the selected class, then student can be deleted by bulk operation.

Student ID	Student Name	Select
1	Eva	<input type="checkbox"/>
2	Francis	<input type="checkbox"/>
3	Madeline	<input type="checkbox"/>
4	Mary	<input type="checkbox"/>
5	Ben	<input type="checkbox"/>

Figure 4.13 Delete Student

**4.2.10 Attendance:** By selecting the class name and the date, the subject for the class which is taken on the date is shown, after the subject is selected the attendance list of the students can be shown.

The screenshot shows a web-based application for managing student attendance. At the top, there is a header with the word "Attendance". Below it, a form has "Select Class Name" and a dropdown menu labeled "Select Class". There is also a date input field with the placeholder "mm/dd/yyyy" and a calendar icon. Below the form are two buttons: "Reset" and "Submit". To the right of the form, there is some pre-filled information: "Class-1", "Math", and the date "2022-01-11". Below this, there is a table with three columns: "Roll no.", "Name", and "Status". The table contains five rows of data:

Roll no.	Name	Status
1	Eva	Absent
2	Francis	Present
3	Madeline	Present
4	Mary	Present
5	Ben	Present

Figure 4.14 Display Attendance Admin View

### 4.3 Teacher Module

**4.3.1 Teacher Home Page:** In the home page teacher can navigate through all the functions.

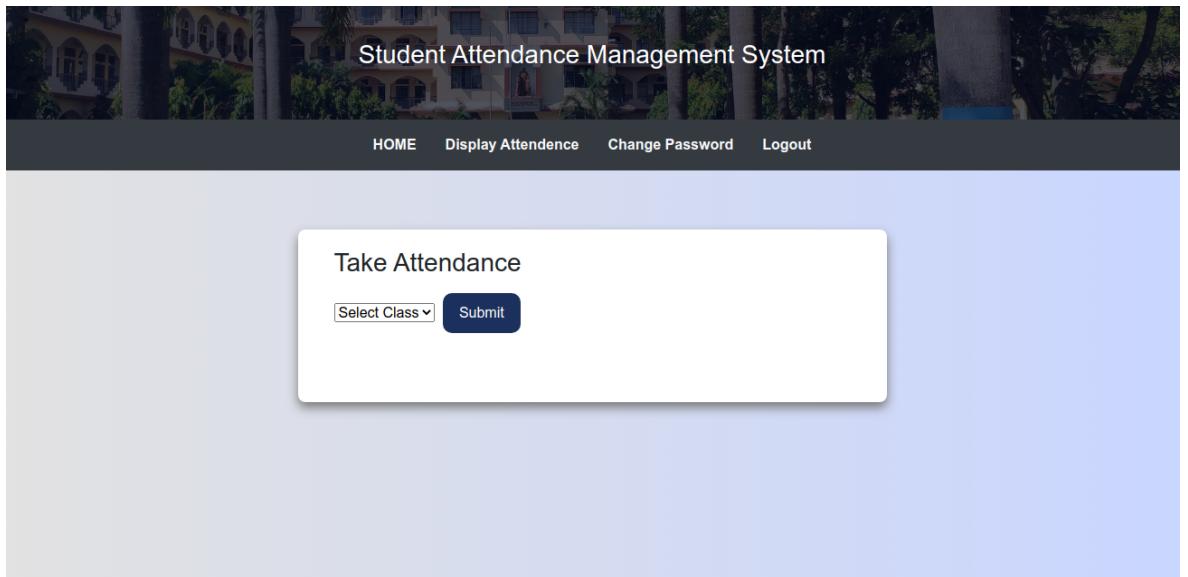


Figure 4.15 Teacher Home Page

**4.3.2 Take attendance:** Teachers can take attendance by entering data like class name, date and student present. Here, the students are by default marked present so the teacher has to unmark the absent student.

The screenshot shows a 'Take Attendance' form. On the left, there's a sidebar with a 'Select Class' dropdown set to 'Class-1' and a 'Subject' dropdown set to 'Math'. Below these are date input fields for '01/11/2022'. The main area contains a table with columns 'Roll no.', 'Name', and 'Status'. The table has 6 rows, each with a checked checkbox in the 'Status' column. At the bottom left is another 'Submit' button.

Roll no.	Name	Status
1	Eva	<input checked="" type="checkbox"/>
2	Francis	<input type="checkbox"/>
3	Madeline	<input checked="" type="checkbox"/>
4	Mary	<input type="checkbox"/>
5	Ben	<input checked="" type="checkbox"/>
6	Andrew	<input checked="" type="checkbox"/>

Figure 4.16 Take Attendance

**4.3.3 Display Attendance:** By selecting the class name and the date, the subject for the class which is taken on the date is shown, after the subject is selected the attendance list of the students can be shown.

The screenshot shows an 'Attendance' form. It includes a 'Select Class Name' dropdown, a 'Select Class' dropdown, and a date input field for 'mm/dd/yyyy' set to '2022-01-09'. Below these are 'Reset' and 'Submit' buttons. To the right, it shows 'Class-1', 'Math', and the date '2022-01-09'. The main area displays a table of student attendance. The first two rows show 'Present' status, while the last three show 'Absent' status.

Roll no.	Name	Status
1	Eva	Present
2	Francis	Present
3	Madeline	Present
4	Mary	Absent
5	Ben	Absent

Figure 4.17 Display Attendance Teacher View

## 4.4 Student Module

**4.4.1 Show attendance:** Students can login to their own profile and view their attendance details, the attendance table shows all the student subjects, total class taken, student present class and percentage of the attendance.

The screenshot shows the Student Attendance Management System interface. At the top, there is a banner with a building image and the text "Student Attendance Management System". Below the banner, there is a dark header bar with "Change Password" and "Logout" buttons. The main content area displays a student's profile: Name Eva, Roll no: 1, Class-1. Below this, there is a table showing attendance details:

SUBJECT	TOTAL CLASS	PRESENT CLASS	PERCENTAGE
Math	5	2	40%
English	5	3	60%
History	3	3	100%
Geography	7	5	71.43%

Figure 4.18 Student Home Page

**4.5 Change Password:** All the users can change their own password by typing new password and confirm password.

The screenshot shows the "Change Password" page of the Student Attendance Management System. At the top, there is a banner with a building image and the text "Student Attendance Management System". Below the banner, there is a dark header bar with "HOME", "Teacher", "Subject", "Class", "Student", "Attendance", "Change Password", and "Logout" buttons. The main content area contains a form for changing the password:

New Password  \*

Confirm Password

Figure 4.19 Users Change Password

## 4.6 Database

### 4.6.1 Student Table

	+ Options	← T →	▼	pKey	studentId	className	subjectName	cur_date	attendance
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	1	1	Class-1	Math	2022-01-09	1
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	2	2	Class-1	Math	2022-01-09	1
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	3	3	Class-1	Math	2022-01-09	1
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	4	4	Class-1	Math	2022-01-09	0
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	5	5	Class-1	Math	2022-01-09	0
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	6	6	Class-1	Math	2022-01-09	1
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	7	1	Class-1	Math	2022-01-10	0
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	8	2	Class-1	Math	2022-01-10	1
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	9	3	Class-1	Math	2022-01-10	0
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	10	4	Class-1	Math	2022-01-10	1
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	11	5	Class-1	Math	2022-01-10	1
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	12	6	Class-1	Math	2022-01-10	0
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	13	1	Class-1	Math	2022-01-11	0
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	14	2	Class-1	Math	2022-01-11	1
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	15	3	Class-1	Math	2022-01-11	1
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	16	4	Class-1	Math	2022-01-11	1
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	17	5	Class-1	Math	2022-01-11	1
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	18	6	Class-1	Math	2022-01-11	0
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	19	1	Class-1	Math	2022-01-12	0

Figure 4.20 Database Attendance Table

#### 4.6.2 Attendance Table

		studentId	studentName	classCode	className	status
<input type="checkbox"/>	Edit  Copy  Delete	1	Eva	9	Class-1	1
<input type="checkbox"/>	Edit  Copy  Delete	1	Tom	13	Class-2	1
<input type="checkbox"/>	Edit  Copy  Delete	2	Francis	9	Class-1	1
<input type="checkbox"/>	Edit  Copy  Delete	2	Gwen	13	Class-2	1
<input type="checkbox"/>	Edit  Copy  Delete	3	Madeline	9	Class-1	1
<input type="checkbox"/>	Edit  Copy  Delete	3	Luffy	13	Class-2	1
<input type="checkbox"/>	Edit  Copy  Delete	4	Mary	9	Class-1	1
<input type="checkbox"/>	Edit  Copy  Delete	4	Ace	13	Class-2	0
<input type="checkbox"/>	Edit  Copy  Delete	5	Ben	9	Class-1	1
<input type="checkbox"/>	Edit  Copy  Delete	5	Nico	13	Class-2	0
<input type="checkbox"/>	Edit  Copy  Delete	6	Andrew	9	Class-1	1

Figure 4.21 Database Student Table

## **CHAPTER 5**

### **CONCLUSION**

In this work, the web based attendance management system will be developed using PHP server-side scripting language and CSS, HTML, JavaScript for designing the frontend which will fully meet the system's goals.

This system overcomes many limitations incorporated in attendance, this system saves a great amount of time and reduces errors which may occur during attendance calculation.

The system will be fully responsive which can be used in mobile, tablets, desktop, etc.

Using a digitized attendance management system will eliminate the usages of paper as it takes 40% of trees in harvesting for making paper.

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