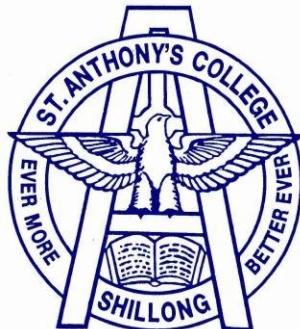


School Management System

A Project Report Submitted
in Partial Fulfillment of the Requirement
for the Degree in Master of Computer Applications

Undertaken at
GrowEagles TechSoul Pvt. Ltd, Shillong

By
Sunep Jamir,
University Roll No.21STAMCA027



Department of Computer Science
St. Anthony's College
Shillong
June, 2023



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Date: June 1, 2023

Sunep Jamir
Shillong

This is to certify that **Sunep Jamir** (Regno. 21070334), a student of MCA, St.Anthony's College, Shillong has successfully completed his tenure in **School Management System** under 4 months long internship programme starting at February 1, 2023 in TechSoul. During the period of his internship programme with us he was found punctual, hardworking, creative and inquisitive.

We wish him every success in life.

Sincerely,
Mr. Ajay Kr. Gupta (AJ)
Founder & CEO of TechSoul™

BRANCHES

INDIA : SHILLONG, MUMBAI(HO), HARYANA | KENYA : NAIROBI | IISA:

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GrowEagles TechSoul Pvt. Ltd

St. Peter Paul Road (Polo), Shillong, Meghalaya

aj@techsoul.in

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Ajay Kumar Gupta,
Founder & CEO
(GrowEagles TechSoul Pvt. Ltd.)
Email: aj@techsoul.in

CERTIFICATE

This is to certify that ***Mr. Sunep Jamir***, a 4th Semester MCA student of St. Anthony's College, Shillong, has successfully completed his project work entitled "**School Management System**", at ***Grow Eagles TechSoul Pvt. Ltd***, St. Peter Paul Road (Polo), Shillong, Meghalaya.

His work has been prepared as partial fulfillment of the requirement for the degree of MCA, to be awarded by North Eastern Hill University. The project work submitted here is the bona-fide work of the student.

During his stay at "Grow Eagles TechSoul Pvt. Ltd", he has displayed very sincere and consensus attitude towards work.

I wish him success in all future endeavors.

Signature

Ajay Kumar Gupta

Founder & CEO

(Grow Eagles TechSoul Pvt. Ltd)



GrowEagles TechSoul Pvt. Ltd
St. Peter Paul Road, Polo, Shillong, Meghalaya
aj@techsoul.in
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CERTIFICATE

This is to certify that **Mr. Sunep Jamir**, a 4th Semester student of MCA from **St. Anthony's College, Shillong** has completed his full- semester project work entitled "**School Management System**" at GrowEagles TechSoul Pvt. Ltd, St. Peter Paul Road (Polo), Meghalaya, from **Feb 1, 2023** to **May 31, 2023**, under my guidance and supervision for the partial fulfillment of the requirement for the award of the degree of Master of Computer Application under **North Eastern Hill University**.

During his stay in GrowEagles TechSoul Pvt. Ltd, Shillong, Meghalaya, he has displayed very sincere and consensus attitude toward his work. His performance during work was found to be satisfactory.

I wish him success in all his future endeavors.

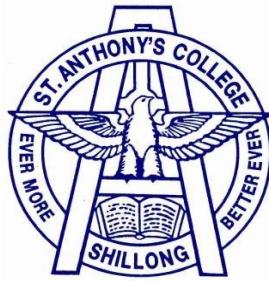
Signature

Project Guide

(Ajay Kumar Gupta)

Founder & CEO

(GrowEagles TechSoul Pvt. Ltd)



**Department of Computer Science
St. Anthony's College, Shillong
Affiliated to
North Eastern Hill University, Shillong**

CERTIFICATE

This is to certify that the project report entitled “**School Management System**” is an approved work done by **Mr. Sunep Jamir** (Roll No-21STAMCA027) in the partial fulfillment of the requirement for the award of the degree of Master of Computer Application under North Eastern Hill University, Shillong from St. Anthony's College, Shillong.

Signature

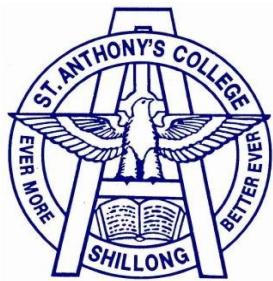
Dr. Anjan Das

Director, MCA

St. Anthony's College

Shillong – 793001

Meghalaya



Department of Computer Science

St. Anthony's College, Shillong

Affiliated to

North Eastern Hill University, Shillong

CERTIFICATE

This is to certify that the Project work titled '***School Management System***' bonafide work done by ***Mr. Sunep Jamir, North Eastern Hill University, 21STAMCA027,*** under my guidance during the fourth semester of the course.

Signature

Internal Guide

Prof. Auisha V Hujon

Project seminar was held on 17th June, 2023 at
St. Anthony's College, Shillong

Date:

External Examiner

ACKNOWLEDGEMENT

While working in this project I have given efforts for the completion of this project. However, it would not have been possible without the support and guidance of my faculty members and friends.

I would like to sincerely thank each and every one of them. I would also like to extend my thanks to my external guide for his tireless efforts in guiding me and also for providing and enlightening me with every necessary information regarding the project.

I would also like to sincerely thank my Anthonian family for their kind co-operation and encouragement which helped me in completion of this project.

Last but not the least, I would also like to thank the department of computer science as a whole for constantly guiding me in each and every step of the way in making this project a successful one.

Sunep Jamir

21STAMCA027

4th Semester MCA

St. Anthony's College, Shillong, Meghalaya

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Introduction

This project is titled as “**School Management System**”. This website has been developed using languages such as HTML, CSS, JavaScript, AppsScript and PHP and two frameworks that is Eli CSS Framework and Eli PHP Framework. This website has been developed according to the requirements of my client. This website is named as “**School Management System**”, this School Management System Website is a light weight website for school which are newly adopting or are newly opened schools which are looking for low cost and easy function of the website.

This Website will use Google Sheet for storing of information of the student’s general information and the logins, payments notification and other information will be stored in SQLite.

This Website will also use Google Drive for adding or replacing of pictures on the websites. The website use google sheet as its database and does not need a specific server for storing data.

Synopsis

The School Management System is a project designed specifically for small schools, aiming to assist them in their transition to an online platform or their initial incursion into digital management. The system utilizes Google Sheets and SQLite database to provide a comprehensive and user-friendly solution for efficient school administration. Key features of the system include student information management, fee collection, attendance tracking, notices and analytics capabilities.

By implementing the School Management System, small schools can streamline administrative tasks, centralize student information, automate timetable creation, simplify attendance management, enhance communication between teachers, students, efficiently manage fee collection, and generate comprehensive reports for data-driven decision-making.

Overall, the School Management System empowers small schools to leverage technology effectively, ensuring smoother operations, improved communication, and enhanced student success.

Admin Module:

1. Dashboard: In this section, the admin can view the functionalities available in the panel and can select desired module from the dashboard.
2. Students: In this section, the admin can view student registered to the website and the admin can add new students, delete user or modify/update student's details.
3. Teacher: In this section, the admin can view teacher registered to the website and the admin can add new teacher, delete user or modify/update teacher details.
4. User: In this section, the admin can view user registered to the website and the admin can add new user, delete user or modify/update user details.
5. Class: In this section, the admin can view classes of the school in the website and the admin can add new class, delete class or modify/update class details.
6. Notification: In this section, the admin can send notification to the general, teachers as well as the students.
7. Logout: In this section, the user can logout.

Teacher Module:

1. Dashboard/Notification: In this section, the teacher can view the functionalities available in the panel and can select desired module from the dashboard.
2. Attendances: In this section, the teacher can give attendances to the students of a particular class

3. Logout: In this section, the user can logout.

Students Module:

1. Dashboard: In this section, the student can view the functionalities available in the panel and can select desired module from the dashboard.
2. Monthly Fee: In this section, the students can pay their monthly fee from either card or UPI.
3. Other Fee: In this section, the students can pay their other fee from either card or UPI
4. Notification: In this section, the student will receive notification which are given by teacher or the admin or the Principle.
5. Logout: In this section, the user can logout.

System Study

Existing System:

In the existing system, of school management system there is no light weight or a means of small school or starting school to implement online without spending more then what they want on a website and maintenances. They have to spend on servers and worker for maintaining the website which is not ideal for small school so most school who can't effort it does not have a site and in this state of time online website is very impotent, as it present the school to be known in a wide range.

Proposed System:

The main motive of this project is to solve the above problems by have it affordable as the website does not heavily rely on dedicated server's rather uses google sheet for storing details of students and their parents and google drive for storing photos and images of the school or the events. This website will help the small or staring schools to implement online and help them to slowly convert fully online format.

Hardware/Software Requirements

Client's side:

- ▶ **Software Requirements :**
 - ▶ Windows 7 and above
 - ▶ Appropriate browsers such as Google Chrome, Firefox, Microsoft Edge, etc.

- ▶ **Hardware Requirements :**
 - ▶ 64-bit or 32-bit operating systems
 - ▶ 1 GB RAM minimum, 4 GB recommended

Developer's side:

- ▶ **Software Requirements:**
 - ▶ **Operation System:** Windows 7 and above.
 - ▶ **IDE:** Sublime Text.
 - ▶ **System type:** 64 bit operating system.

- ▶ **Front end:**
 - ▶ HTML, CSS, Javascript

- ▶ **Backend :**
 - ▶ PHP
 - ▶ AppScript

- ▶ **Database :**

► SQLITE

► Google Sheet

► Google Drive

► **Web Server :**

► Apache

► **Framework :**

► Eli CSS Framework/Eli PHP Framework

► **Hardware Requirements:**

► 64 bit distribution capable of running 32 bit application.

► 2 GB RAM minimum, 4 GB recommended.

► 2 GB of available disk space minimum, 4 GB recommended.

► 1280 x 800 minimum screen resolutions.

Apache

The Apache HTTP Server Project is an effort to develop and maintain an open-source HTTP server for modern operating systems including UNIX and Windows. The goal of this project is to provide a secure, efficient and extensible server that provides HTTP services in sync with the current HTTP standards.

The Apache HTTP Server ("HTTPD") was launched in 1995 and it has been the most popular web server on the Internet since April 1996

PHP

- PHP is an acronym for "PHP: Hypertext Preprocessor"
- PHP is a widely-used, open source scripting language

- PHP scripts are executed on the server
- PHP is free to download and use
- PHP files can contain text, HTML, CSS, JavaScript, and PHP code
- PHP code is executed on the server, and the result is returned to the browser as plain HTML
- PHP files have extension ".php"
- PHP can generate dynamic page content
- PHP can create, open, read, write, delete, and close files on the server
- PHP can collect form data
- PHP can send and receive cookies
- PHP can add, delete, modify data in your database
- PHP can be used to control user-access
- PHP can encrypt data

SQLite:

- SQLite is a lightweight, serverless, and self-contained relational database management system.
- It is embedded within applications, requiring no separate server process or installation.
- SQLite is cross-platform compatible, running on various operating systems including Windows, macOS, Linux, and mobile platforms.
- It follows ACID properties, ensuring data integrity and transactional support.
- SQLite has a small memory footprint, making it suitable for resource-constrained environments.
- It offers high performance with efficient data retrieval and storage.
- SQLite supports standard SQL operations for creating tables, querying data, and managing database structures.
- It provides multiple storage options, including in-memory and disk-based databases.
- SQLite is widely adopted in mobile apps, desktop software, web browsers, and IoT devices.
- It is released under an open-source license, encouraging community contributions and ongoing improvements.

How to access SQLite : <http://localhost/db>

Feasibility Study

► **Technical Feasibility :**

The hardware required for the project is readily available such as RAM, storage and processor. The software required for the project also available such as 64-bit operating system, sublime text and windows 10 operating system.

► **Economic feasibility :**

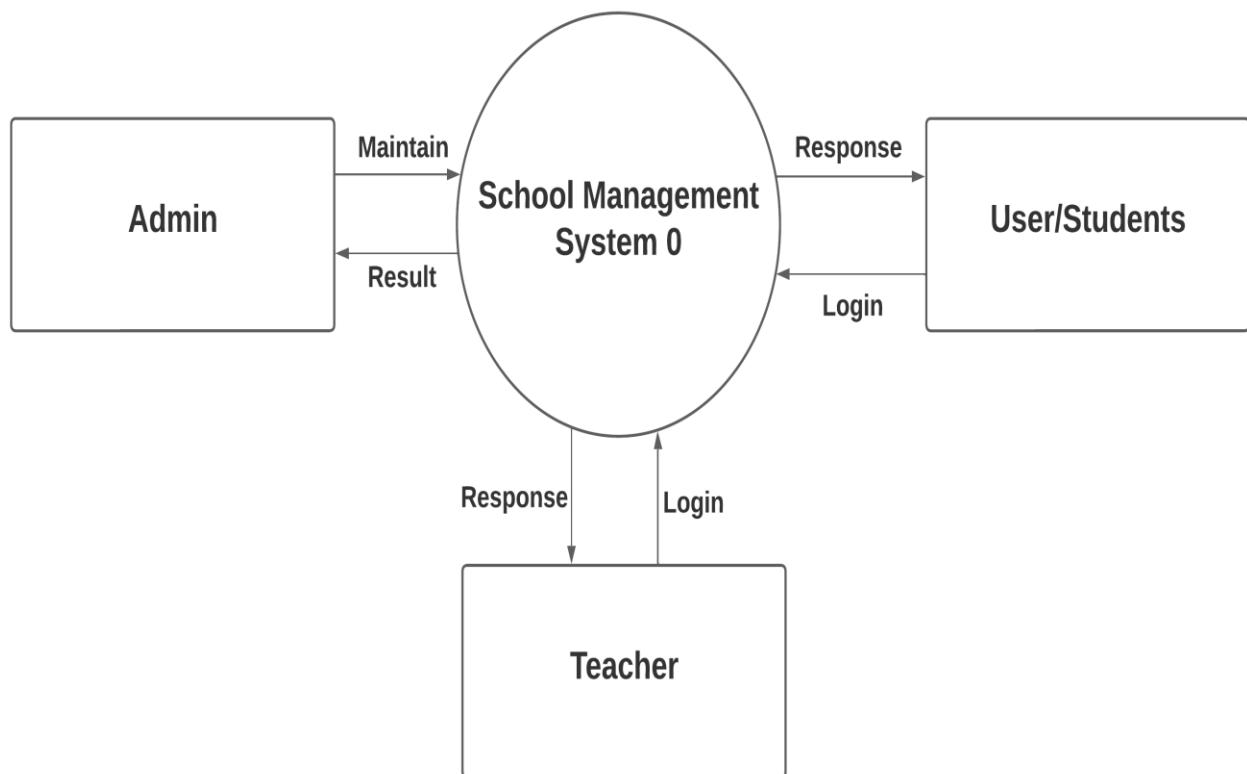
This project is economically feasible as it does not incur any extra costs and it is free of cost. The raw materials used in this project are also free of cost.

► **Operational feasibility :**

This project is operationally feasible as well since it has an easy to use interface and makes it easy for the users to apply to respective policies.

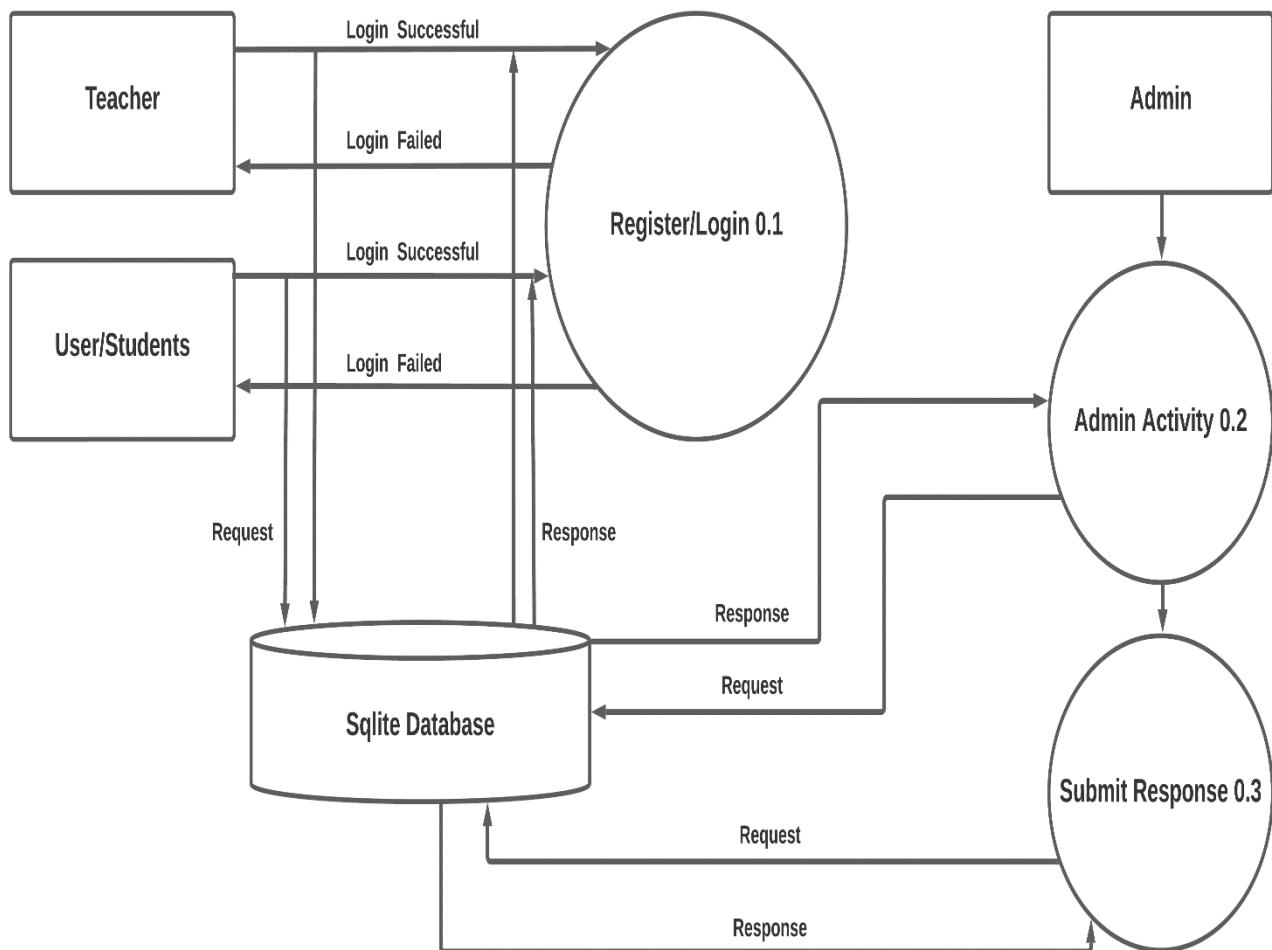
Data Flow Diagram

Level – 0: Data Flow Diagram:



In level-0 DFD, we will see the general process flow done in School Management System. This will serve as a guide as we go deeper into the processes of School Management System.

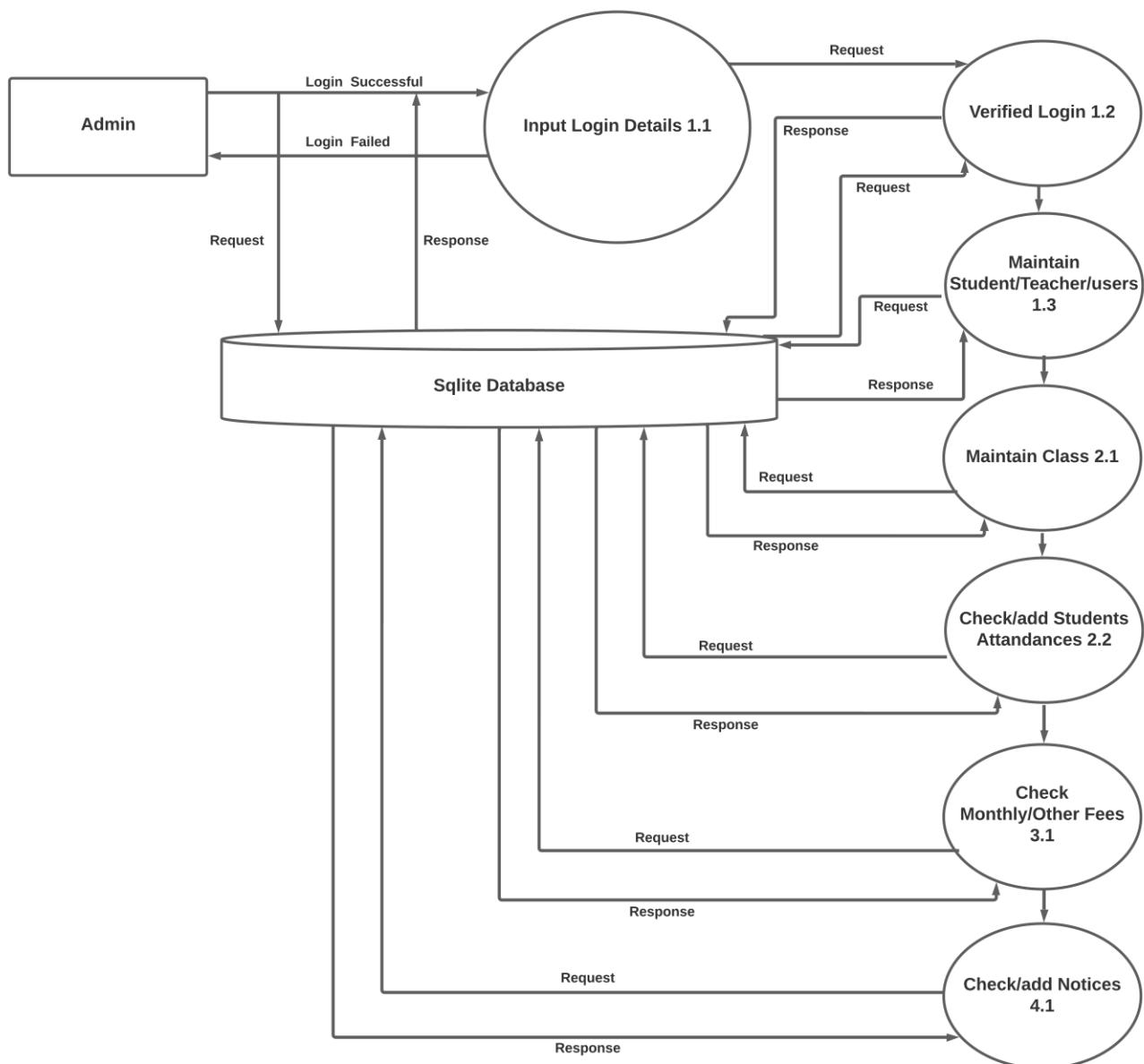
As we see, when we build the levels of data flow diagrams, the connections of the transactions and data also broadens and gets more specific.

Level – 1: Data Flow Diagram:

In this level-1 DFD, we can see that the teacher/users and student are logging in and their data is getting validated and authenticated so that they may be able to access data from the website which will be sent from the database.

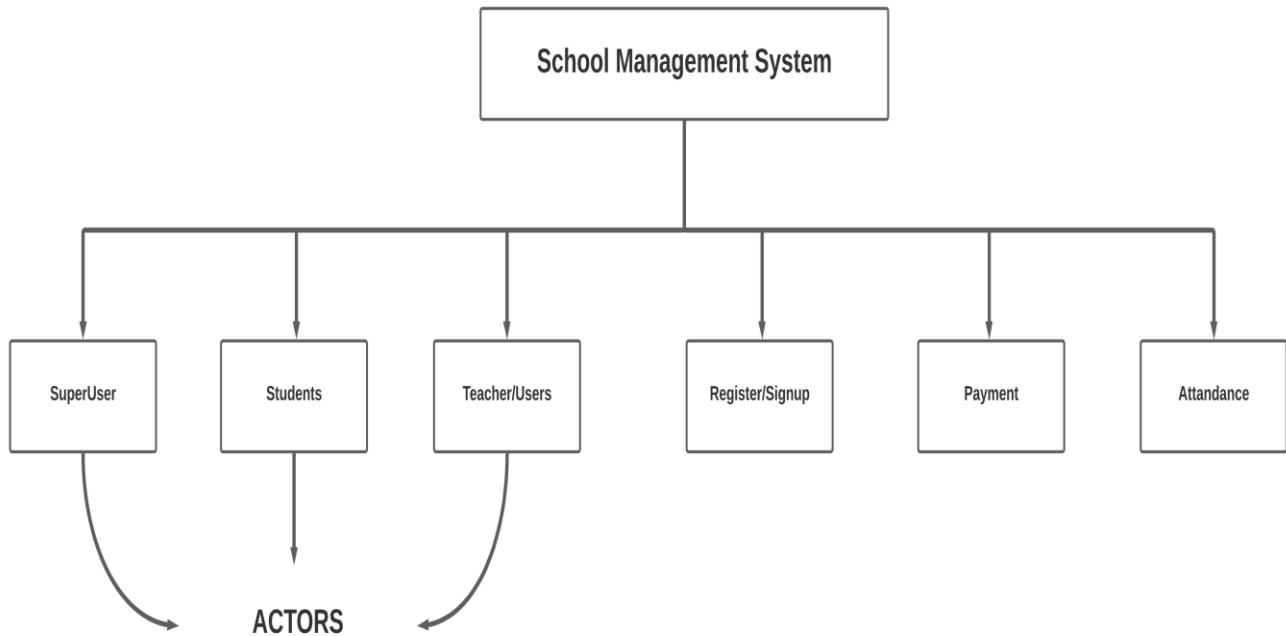
The admin is also requesting for validation and authentication from the database so that he will be able to perform specific functions on the website.

Level – 2 : Data Flow Diagram:



In this level-2 DFD, the admin after authentication and logging in to the admin panel, will perform specific functions on the website from the admin panel as seen in the diagram, the admin will request something from the database and the admin will get a response back from the database such as viewing data from the database via from the admin panel directly or performing add, delete, update or modify functionalities.

Module Design



SuperUser: The superuser module allows the admin to easily perform specific operations on the website.

Students: The Student module allows student to easily access the website and send responses.

Teacher/User: The teacher module allows teacher to easily access the website and send responses.

Register/Signup: The register module allows the student to register for the school.

Payment: The payment module is for the register student to pay their monthly or other fees.

Attendance: The attendance module is for the teacher and the student as the teacher will give the attendances and the students can view their attendances.

Entity Relationship Diagram

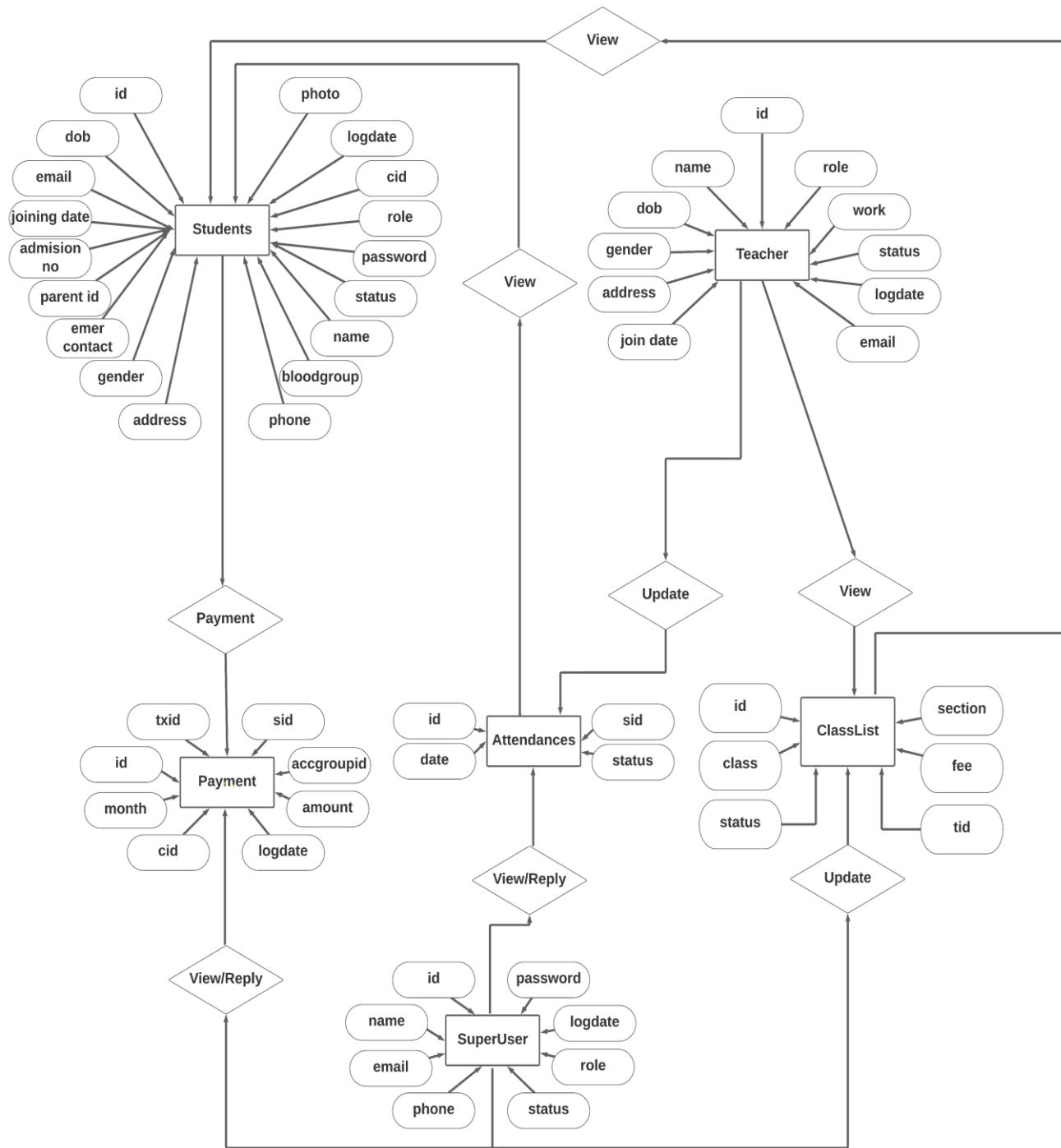


Fig : Entity Relationship Diagram.

Data Dictionary:

Entity Register

Colum n	Type	Attribut es	Null	Default	Extra	Link s to	Commen ts	MIME
id	Int(11)		No		auto_in cremen t			
name	Varchar(5 0)		No					
email	Varchar(5 0)		No					
phone	Int(10)		No					
passwo rd	Varchar(5 0)		No					
status	Int		No	1				
roll	Varchar(1 0)		No	Admin/u ser				

Entity Super User

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
id	Int(11)		No		auto_increment			
name	Varchar(50)		No					
email	Varchar(50)		No					
phone	Int(10)		No					
password	Varchar(50)		No					
status	Int		No	1				
roll	Varchar(10)		No	Admin/user				
logdate	timestamp			Current_timestamp				

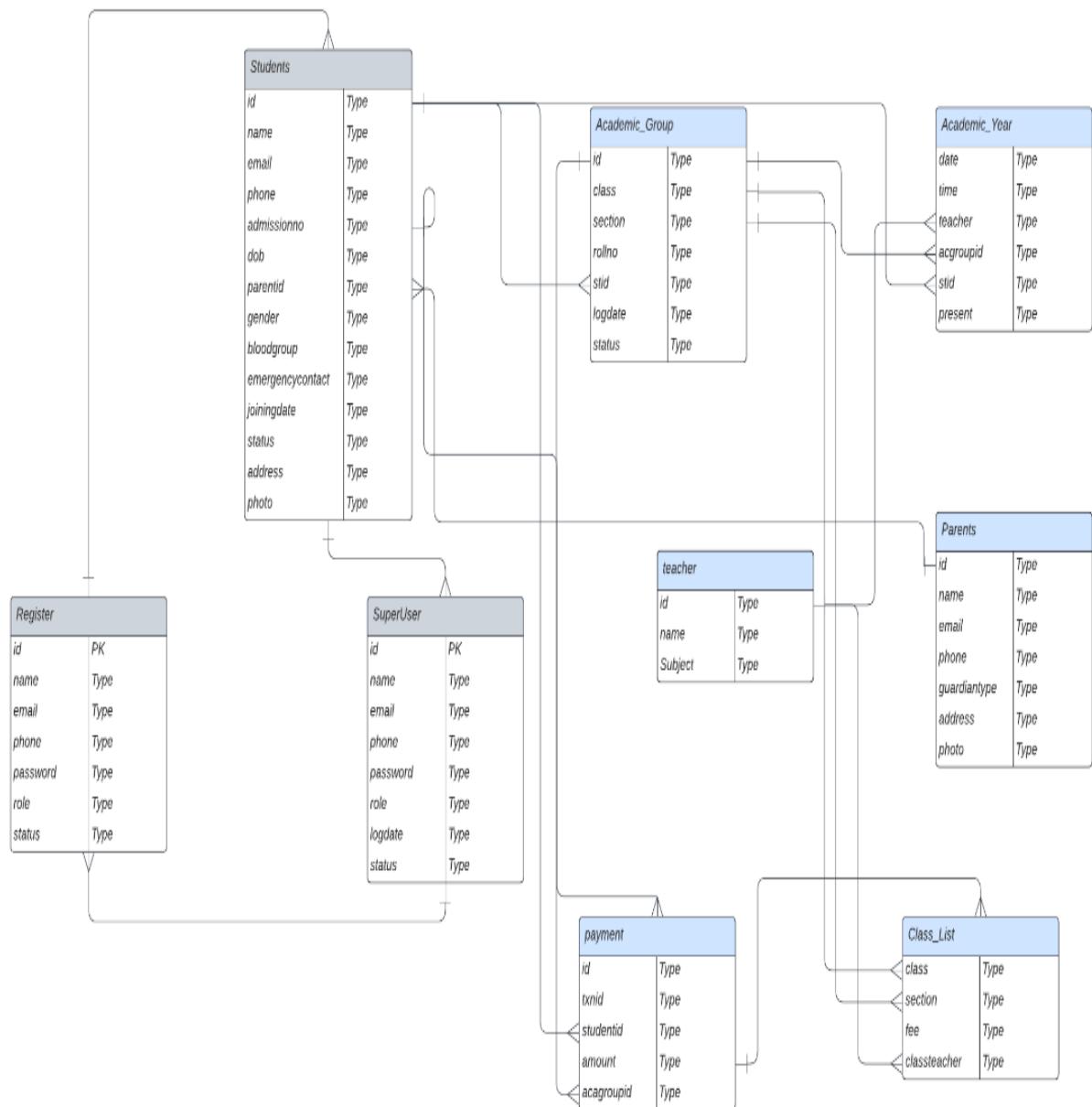
Payment

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
id	Int(11)		No		auto_increment			
txnid	Int(11)		No			->academic year.id		
studentid	Int(11)		No			->student.id		
amount	Int(20)		No					
accgroup id	Int(11)		No			->Accademic group.id		

ClassList

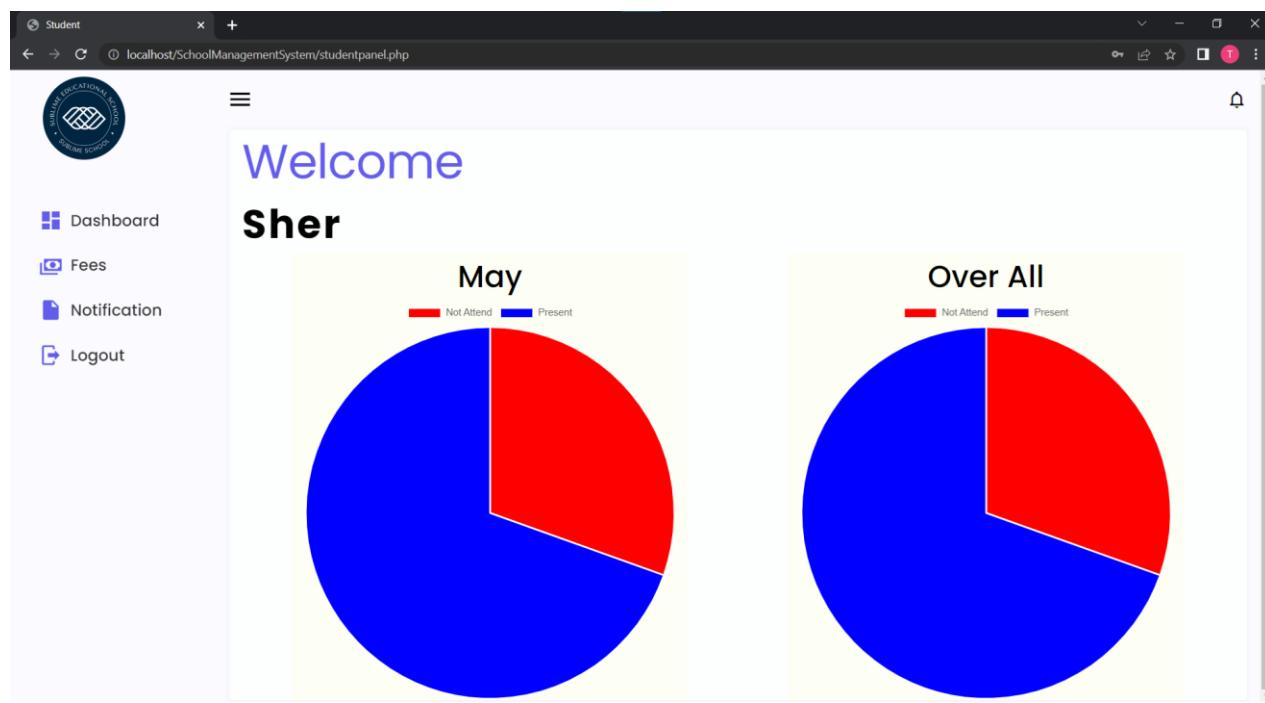
Column	Type	Attributes	Nul l	Defaul t	Extr a	Links to	Comments	MIM E
class	varchar(30)		No					
section	varchar(30)		No					
fee	Int(30)		No					
classteacher	Int(11)		No			->teacher.id		

Database Schema Design



Input/Output Screen

Students/Users Panel:



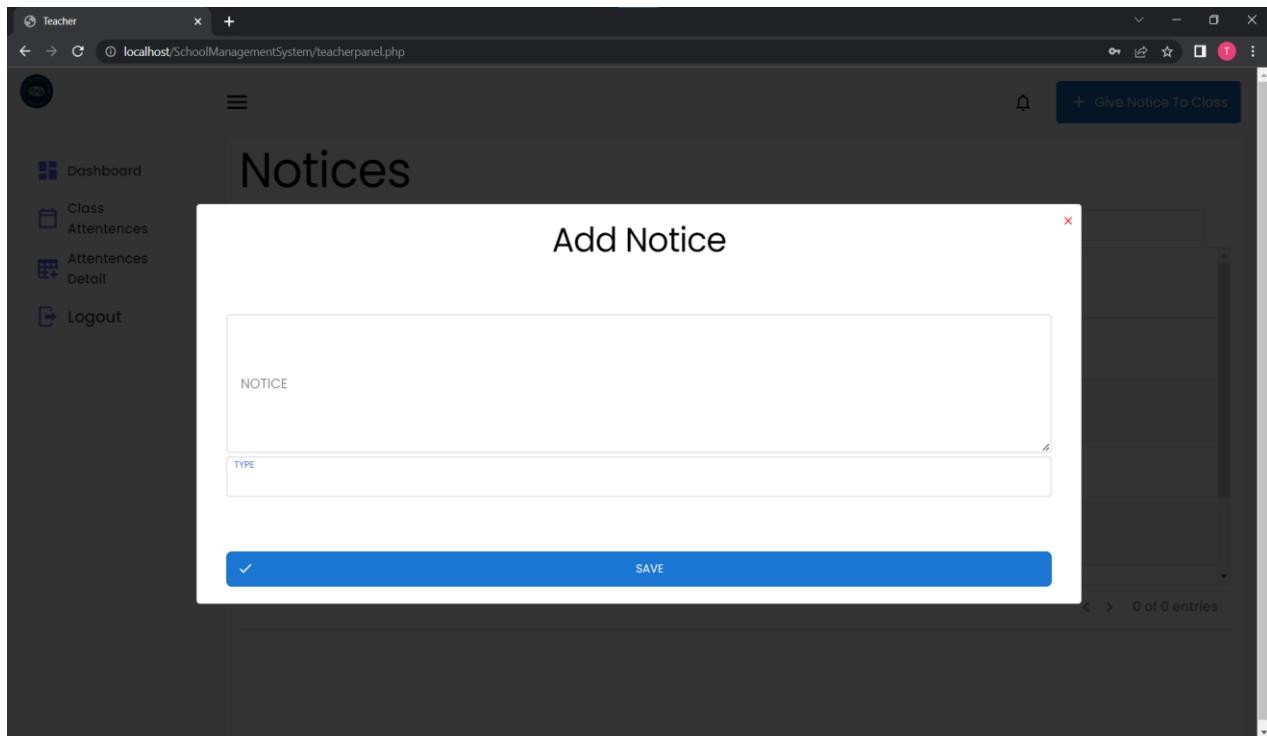
The screenshot shows a web application interface for a School Management System. On the left, a sidebar menu includes 'Dashboard', 'MonthlyFees', 'Other Fees', 'Notification', and 'Logout'. The main content area displays a 'Monthly Fee Records' section. A modal window is open, titled 'Receipt From payment: Jun', showing a receipt for ₹ 500. The receipt details are: Name: Sher, Class: 1 A, Email: Sher@gmail.com, Receipt Number: 1483824490, and Monthly Fee: ₹ 500. Below the receipt, there are two payment options: 'Pay By Card' and 'Pay By UPI'. In the background, there are sections for March (₹ 500, Paid), June (₹ 500, Pay), July, August, and September.

The screenshot shows a web application interface for a School Management System. On the left, a sidebar menu includes 'Dashboard', 'MonthlyFees', 'Other Fees', 'Notification', and 'Logout'. The main content area displays an 'Other Fees' section for June. The page has a red background. It shows the month 'June' and the heading 'Other Fees'. Below that, it lists various fees: Computer fee: 200, Computer fee: 200, Library fee: 150, Sports fee: 200, Test fee: 250, and Activities fee: 200. The total amount is listed as 'Total : 1000'. A 'Pay' button is at the bottom.

The screenshot shows a web-based school management system. On the left is a sidebar with a logo for "SCHOOL OF EDUCATIONAL TECHNOLOGY" and "SUBURB SCHOOL". The sidebar includes links for Dashboard, Monthly Fees, Other Fees, Notification, and Logout. The main content area has a header "Notices" and a search bar. Below is a table titled "Notices" with columns "LOGDATE" and "NOTICE". The table contains four rows:

LOGDATE	NOTICE
S 2023-05-12	student to
G 2023-05-12	general to
G 2023-05-22	For Event
G 2023-05-22	Sports Week

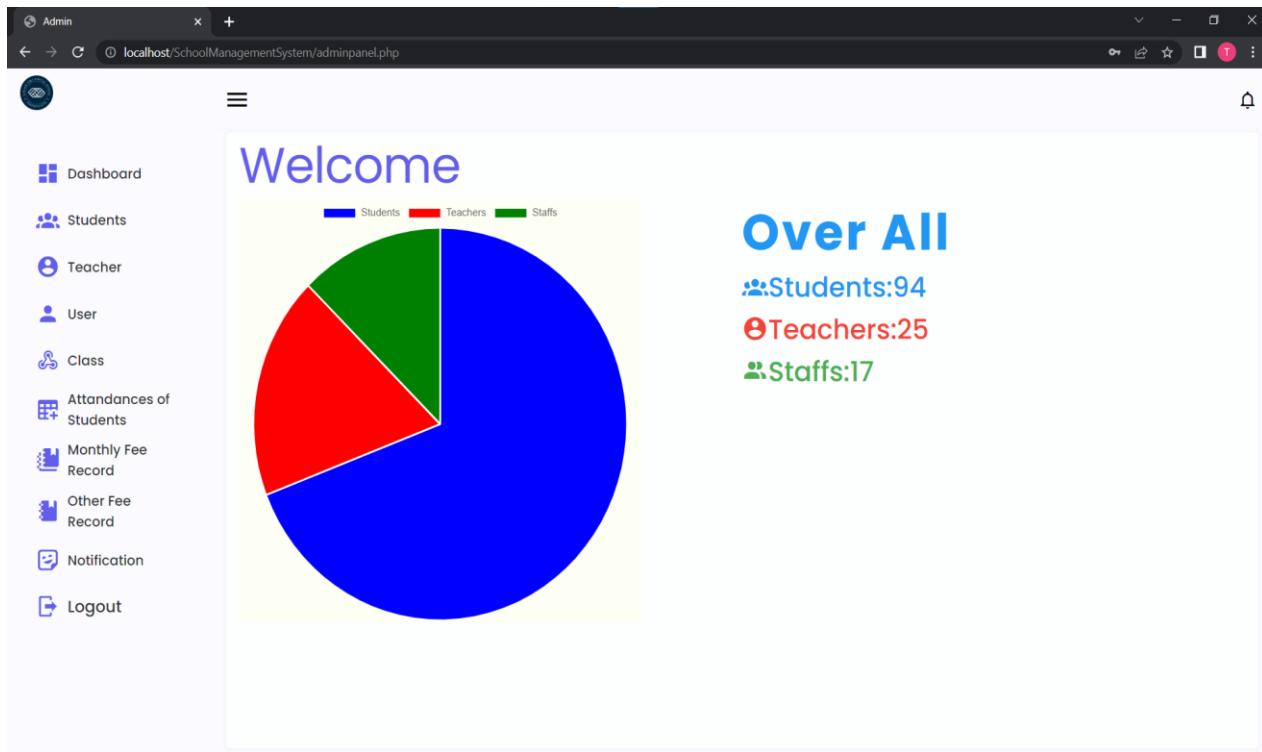
At the bottom right of the main area, it says "0 of 0 entries".

Teacher Panel:

Students Attendance		
Student ID	Name	Attendance
1	Sher	Present
2	James	Present
17	Josh	Present
18	Riali	Present
19	Toshiri	Present
20	Shiria	Present
21	Dora	Present
22	Yelem	Absent
23	Gus	Absent

The screenshot shows a web-based school management system interface. On the left, a sidebar menu includes 'Dashboard', 'Class Attentences', 'Attentences Detail', and 'Logout'. The main content area is titled 'Total Attandances' and displays a table of student attendance data for June. The table has columns for 'Students ID', 'NAME', 'Month', and 'Days Present'. The data shows 16 entries, with the last two rows being '16 of 16 entries'. A dropdown menu labeled 'Select Class' lists '1 A', '2 A', '3 A', '4 A', '5 A', '6 A', '7 A', and '8 A'. The URL in the browser bar is 'localhost/SchoolManagementSystem/teacherattenddetail.php?classid=1'.

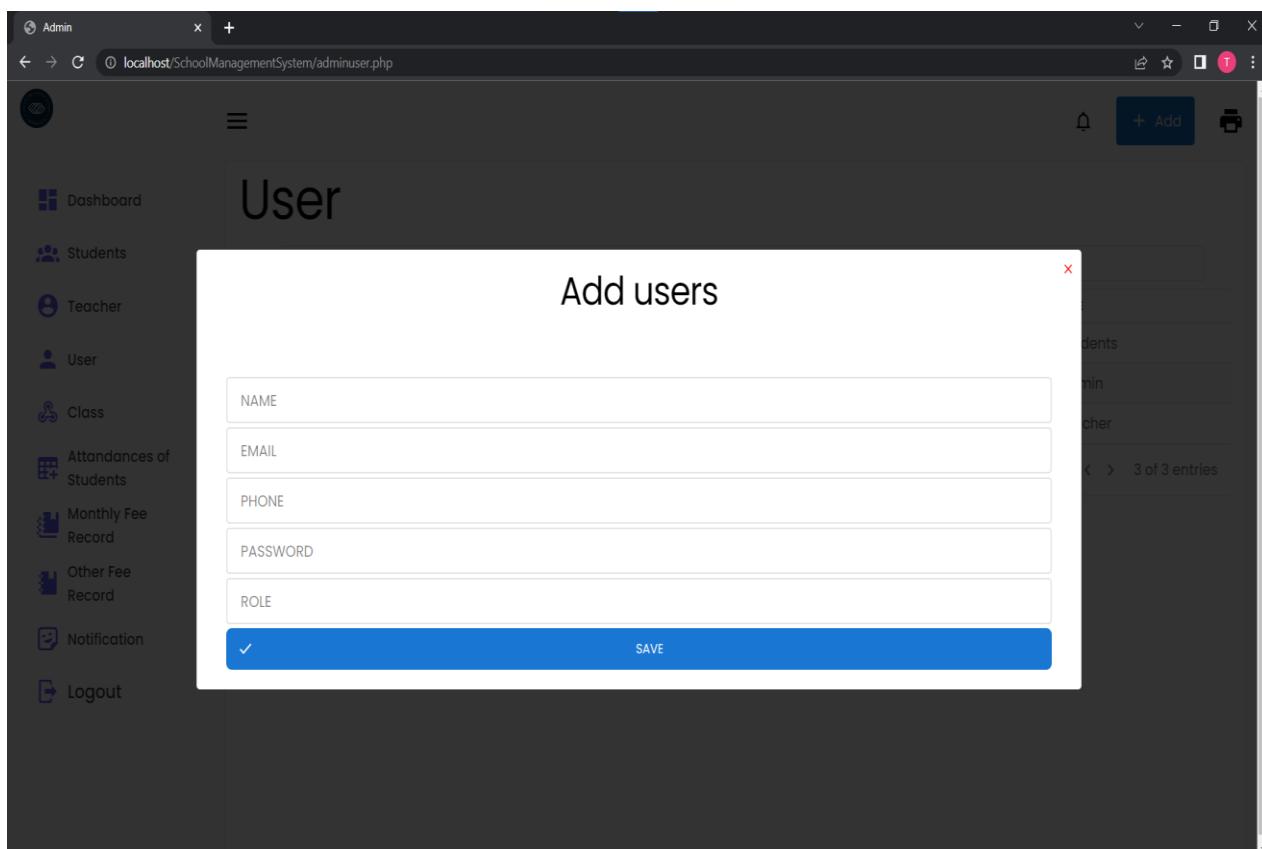
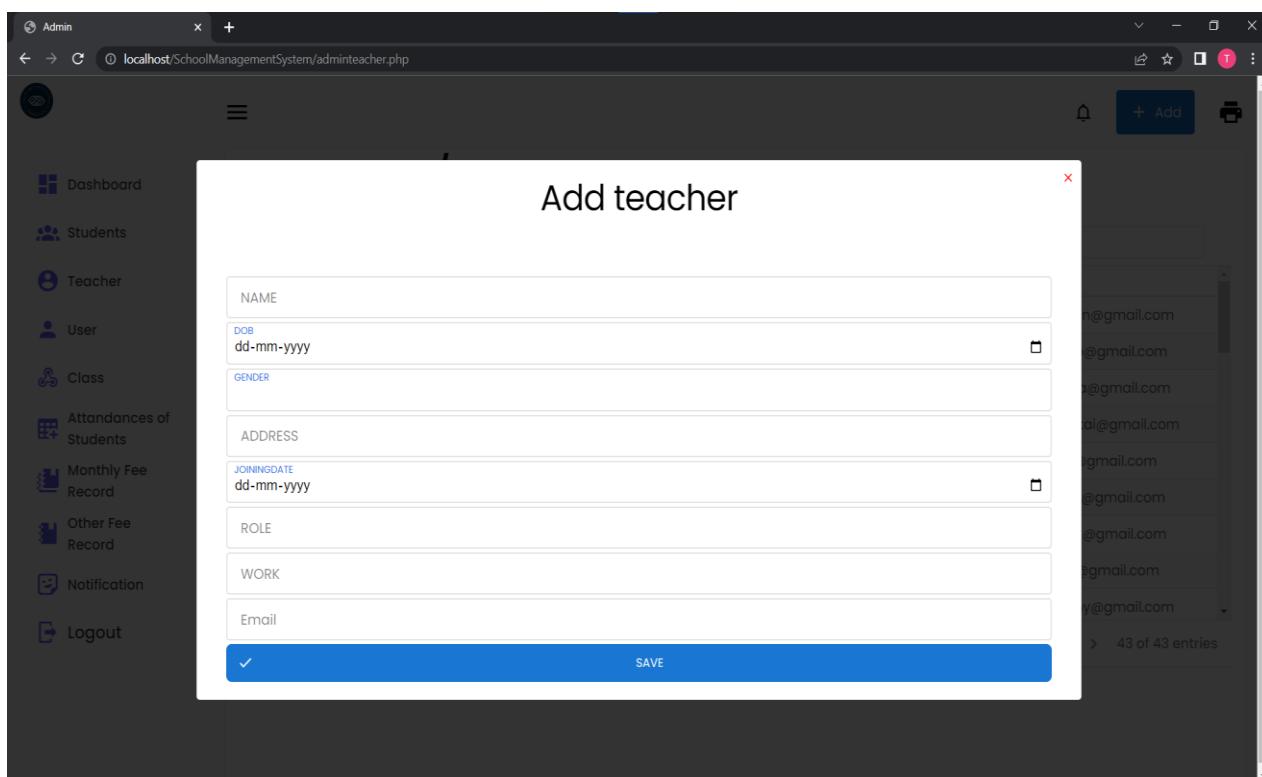
Students ID	NAME	Month	Days Present
1	Sher	June	13
2	James	June	3
17	Josh	June	3
18	Riali	June	3
19	Toshiri	June	3
20	Shiria	June	3
21	Dora	June	3
22	Yeleem	June	2
23	Gus	June	2

Admin Panel:

The screenshot shows the "Add Students" form. The form fields include NAME, EMAIL, JOININGDATE (dd-mm-yyyy), ADMISSIONNO, DOB (dd-mm-yyyy), BLOODGROUP, EMERGENEYCONTACT, GENDER, ADDRESS, PHONE, and Class. On the right side of the form, there is a list of existing student entries with columns for ADDRESS and PHONE. The list includes:

ADDRESS	PHONE
Shillong	8767876543
Shillong	8767876543
Shillong	8978665454
Shillong	8975463454
Shillong	8977654454

At the bottom of the form, there are "✓" and "SAVE" buttons.



The screenshot shows a web browser window titled 'Admin' with the URL 'localhost/SchoolManagementSystem/adminclass.php'. The main page has a dark header with the word 'Class'. On the left, there's a sidebar with icons for Dashboard, Students, Teacher, User, Class, Attendances of Students, Monthly Fee Record, Other Fee Record, Notification, and Logout. A modal window titled 'Add Classlist' is open in the center. It contains fields for 'Teacher' (empty), 'CLASS' (empty), 'SECTION' (empty), 'FEE' (empty), and 'ACADEMIC AGE' with the value '1'. At the bottom of the modal is a blue 'SAVE' button.

The screenshot shows a web browser window titled 'Admin' with the URL 'localhost/SchoolManagementSystem/adminattendances.php?classid=1'. The main page has a dark header with the title 'Total Attandances' and a 'Select Class' button. On the left, there's a sidebar with icons for Dashboard, Students, Teacher, User, Class, Attendances of Students, Monthly Fee Record, Other Fee Record, Notification, and Logout. Below the sidebar is a table titled 'Search' with columns: Students ID, NAME, Month, and Days Present. The table lists student attendance data for June:

Students ID	NAME	Month	Days Present
1	Sher	June	13
2	James	June	3
17	Josh	June	3
18	Riali	June	3
19	Toshiri	June	3
20	Shiria	June	3
21	Dora	June	3
22	Yelem	June	2
23	Gus	June	2

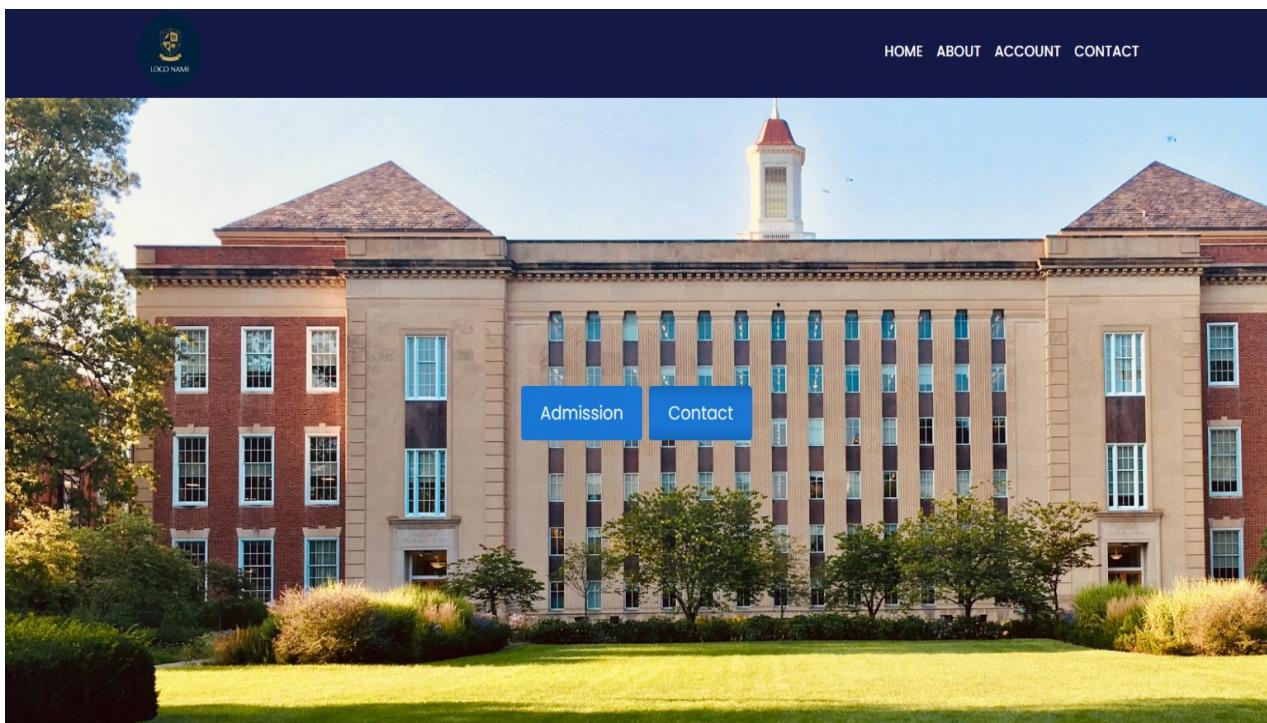
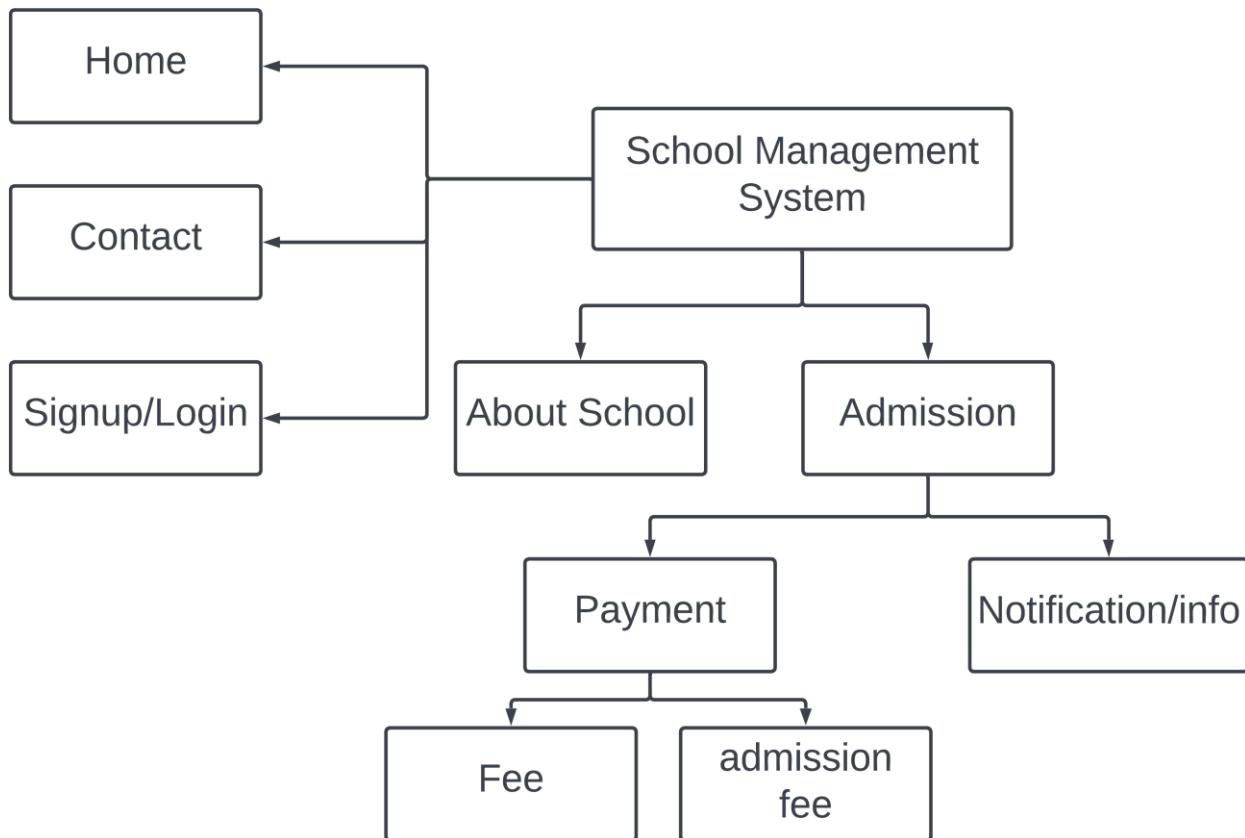
At the bottom right of the table, it says '16 of 16 entries'.

This screenshot shows the 'Student Monthly Payment Record' page. The left sidebar contains navigation links for Dashboard, Students, Teacher, User, Class, Attendances of Students, Monthly Fee Record, Other Fee Record, Notification, and Logout. The main content area displays a table with columns: Students ID, NAME, and Paid Month. A single row is shown with ID 1, Name Sher, and Paid Month Jan - May. To the right of the table is a 'Select Class' dropdown menu listing classes from 1A to 8A. The top of the page shows a browser header with 'localhost/SchoolManagementSystem/adminpayment.php?classid=1'.

This screenshot shows the 'Student Other Payment Record' page. The left sidebar includes the same navigation links as the previous page. The main content area features a modal window titled 'Add Otherfee'. Inside the modal, there are three input fields: 'TYPE' (with placeholder 'Choose Class'), 'Select Class' (with placeholder 'Select Class'), and 'FEE' (with placeholder 'FEE'). At the bottom of the modal is a blue 'SAVE' button. The background of the page shows a table with 5 entries, and the top of the page shows a browser header with 'localhost/SchoolManagementSystem/adminotherfee.php?classid=1'.

The screenshot shows a web-based School Management System interface. The top navigation bar includes tabs for 'Admin' and 'SchoolManagementSystem/adminnotice.php'. The left sidebar contains links for Dashboard, Students, Teacher, User, Class, Attendances of Students, Monthly Fee Record, Other Fee Record, Notification, and Logout. The main content area has a title 'Notices' and a sub-section 'Add Notice'. The 'Add Notice' form contains a text area labeled 'NOTICE' which is currently empty. A dropdown menu labeled 'TYPE' shows 'Student' selected. Below this is a dropdown menu labeled 'All Classes' containing '1 A', '2 A', and '3 A'. At the bottom of the form is a blue button with a checkmark icon and the word 'SAVE'.

Menu Design



The screenshot shows the homepage of the School Management System. At the top, there's a dark blue header with the school's logo on the left and navigation links "HOME", "ABOUT", "ACCOUNT", and "CONTACT" on the right. Below the header is a large banner featuring three photographs: a long hallway with glass doors, a classroom where students are sitting on the floor, and another classroom with rows of desks. Underneath the banner is a dark blue footer section containing three columns: "About Us", "Links", and "Address". The "About Us" column includes links to "Gallery", "About School", and "Login". The "Links" column lists "NBSE" and "Nagaland University". The "Address" column provides the school's location: "T.Ao Road, Para medical Colony, Kohima, Nagaland-797001", email "admin@SublimeEduSchool.com", and phone number "+91 8798765434 / 7898765453". The bottom of the page shows a Windows taskbar with various icons and system status information.

The screenshot shows the "REGISTER" page of the School Management System. The top navigation bar is identical to the homepage. The main content area is a registration form divided into several sections. On the left, there's a sidebar with "Students Information", "Parent's/Guardian's Information", and "Address". The main form fields include "First Name" and "Last Name" (text input boxes), "Date of Birth" (date picker with placeholder "dd-mm-yyyy"), "Phone No" (text input box), "Email" (text input box), "Gender" (dropdown menu with placeholder "Select One"), "Blood Group" (dropdown menu with placeholder "Select One"), "Community" (dropdown menu with placeholder "Select One"), "Register for Class" (dropdown menu with placeholder "Select One"), and "Identification Mark" (text input box). A "Next" button is located at the bottom right of the form area. The URL in the browser address bar is "localhost/SchoolManagementSystem/REGISTRATION#tab2".

The screenshot shows a registration form for student information. On the left, there is a sidebar with three tabs: "Students Information" (selected), "Parent's/Guardian's Information", and "Address". The main form area contains fields for "Father's Name" and "Mother's Name" (both in input boxes), "Parent's Phone No" and "Guardian's Name" (both in input boxes), "Guardian's Phone No" (input box), "Relationship with Guardian" (dropdown menu with "Select One" option), and "Parent/G Email" (input box). At the bottom are "PREVIOUS" and "Next" buttons.

The screenshot shows a registration form for address information. On the left, there is a sidebar with three tabs: "Students Information" (selected), "Parent's/Guardian's Information", and "Address". The main form area contains two large input boxes labeled "Current Address" and "Permanent address". Below these are two dropdown menus: "From" (with "Select One" option) and "City" (input box). There is also a "Pin code" input box. At the bottom are "PREVIOUS" and "Submit" buttons.



Sublime Educational School

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A screenshot of a web browser showing the "SCHOOL'S FACILITIES" section of the website. The browser window has a dark blue header with the school's logo and navigation links. The main content area features three images: one of colorful art supplies labeled "Activity", one of a well-stocked bookshelf labeled "Library", and one of students working on laptops at a table labeled "IT Lab".

Main +

localhost/SchoolManagementSystem/

Sublime Educational School

HOME ABOUT ACCOUNT CONTACT

SCHOOL'S FACILITIES

Activity

Library

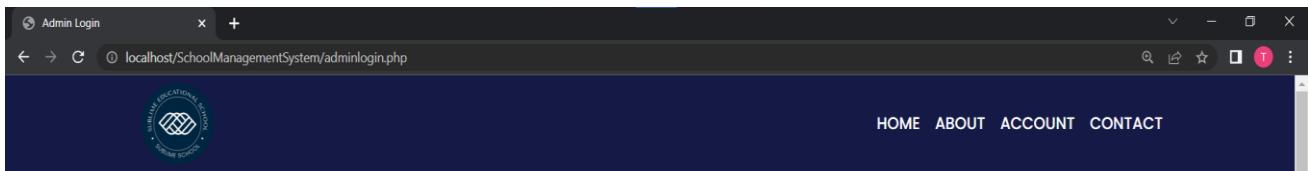
IT Lab

localhost/SchoolManagementSystem/ABOUT-US#act

The screenshot shows a web browser window titled "Login" with the URL "localhost/SchoolManagementSystem/LOGIN". The page has a dark blue header with a circular logo containing a stylized "W" and the text "MC EDUCATIONAL SOCIETY" and "SUPREME SCHOOL". On the right side of the header are links for "HOME", "ABOUT", "ACCOUNT", and "CONTACT". The main content area is titled "Student Login" in bold black font. It contains two input fields: "Student ID:" and "Password:", both with green checkmarks indicating they are valid. Below these fields is a green "Login" button. At the bottom of the form are two links: "Register" and "Forgot Password?".

The screenshot shows a web browser window titled "ForgotPassword" with the URL "localhost/SchoolManagementSystem/forgotpassword.php". The layout is identical to the Student Login page, featuring the same dark blue header with the school's logo and navigation links. The main content area is titled "Forgot Password" in bold black font. It contains a single input field labeled "Email" and a blue "Submit" button below it. At the bottom of the form is a blue "LOGIN" link.





About Us

Links

Address

Future Enhancements

Future enhancements for the website includes to have documents and files be uploaded in the Google Sheet and Google Drive and make it smooth to transfer as well as creation of Google Sheet

Conclusion

In conclusion, the implementation of the School Management System powered by Google Sheets and SQLite database holds tremendous potential for the future of small schools. This innovative system addresses the limitations of manual methods and provides a comprehensive, efficient, and user-friendly platform for managing administrative tasks and student data.

By leveraging the power of Google Sheets and SQLite, the system enables schools to streamline their operations, improve data management, and enhance communication. It centralizes student information, simplifies attendance tracking, and offers a monitoring academic progress. The system also facilitates fee management, generating invoices and financial reports with ease.

Moreover, the School Management System is designed to be adaptable and upgradeable. As technology evolves, the system can be enhanced with additional features and integrations to meet the changing needs of schools. Whether it's incorporating advanced reporting and analytics tools, integrating with other educational software, or introducing automation for timetable and scheduling, the system can be customized to support future requirements.

By embracing this advanced management system, small schools can optimize their administrative processes, improve decision-making through data-driven insights, and foster a collaborative environment for teachers, students, and parents. This integration of technology will lead to increased efficiency, better communication, and overall development of the school.

In summary, the School Management System powered by Google Sheets and SQLite database promises a brighter future for small schools, enabling them to thrive in the digital age. By implementing this system, schools can streamline their operations, enhance communication and collaboration, and pave the way for continuous improvement and growth.

Bibliography (i.e References)

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- www.rossall.org.uk
- www.elidocs.techsoul.in

Source Code/CD

Student Register source Code:

Front End:

```
<!DOCTYPE html>
<html smooth>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>REGISTER</title>
    <link rel="stylesheet" href="https://cdn.jsdelivr.net/gh/aj-
techsoul/ELICSS@4.0.2/eli.css" />
    <link rel="stylesheet" type="text/css" href="assets/css/design.css">
</head>
<body>
<?php include("inc/frontpageheader.php") ?>
<section class="pad-t-5 g container-m creamwhite">
<div class="g la1 ma1 s1 xs1 ggap-3">
    <ul class="tabs vertical radius-5 valign-c" style="max-height: 45vh; min-
height:45vh; max-width:80%;">
        <li ><a href="#tabv1">Students Information</a></li>
        <li ><a href="#tabv2">Parent's/Guardian's Information</a></li>
        <li ><a href="#tabv3">Address</a></li>
        <!-- <li ><a href="#tabv4">Documents</a></li> -->
    </ul>
    <form method="post"
action="https://script.google.com/macros/s/AKfycbwY0pGy_yRBprsr_6c2oWpHovcd
```

XwDrsnJ_2I1-HTKn0wOF19cz75w5vdGydsqK15RI/exec" class="g valign-c" id="signup" name="signup">>

<div class="tab-content active" id="tabv1">

<div class="g l2 m1 s1 x1 ggap-3 pad-t-5 oldinput blue-text talign-l">

<div class="tsizeform">

<b class="oldinput">First Name

<input type="text" name="first_name" required=""></div>

<div class="tsizeform">

<b class="oldinput">Last Name

<input type="text" name="last_name" required="">

</div>

<div class="tsizeform">

<b class="oldinput">Date of Birth

<input type="date" class="dob" licon="mdi mdi-cake" ricon="mdi mdi-calenter-today" name="dob" required=""></div>

<div class="tsizeform">

<b class="oldinput">Phone No

<input type="tel" name="phone" required="">

</div>

<div class="tsizeform">

<b class="oldinput">Email

<input type="text" name="email" required="">

</div>

<div class="tsizeform">

<b class="oldinput">Gender

<select name="gender" class="black-text" required="">

<option>Select One</option>

<option value="Male">Male</option>

```
<option value="Female">Female</option>
<option value="Other">Other</option>
</select></div>
<div class="tsizeform">
<b class="oldinput">Blood Group</b>
<select name="blood_group" class="black-text" required="">
<option value="">Select One</option>
<option value="A+">A+</option>
<option value="B+">B+</option>
<option value="O+">O+</option>
<option value="AB+">AB+</option>
<option value="Other">Other</option>
</select></div>
<div class="tsizeform">
<b class="oldinput">Community</b>
<select name="community" class="black-text" required="">
<option value="">Select One</option>
<option value="ST">ST</option>
<option value="SC">SC</option>
<option value="OBC">OBC</option>
<option value="General">General</option>
</select></div>
<div class="tsizeform">
<b class="oldinput">Register for Class</b>
<select name="class" class="black-text" required="">
<option value="">Select One</option>
<option value="A">A</option>
<option value="B">B</option>
```

```
<option value="1">1</option>
<option value="2">2</option>
<option value="3">3</option>
<option value="4">4</option>
<option value="5">5</option>
<option value="6">6</option>
<option value="7">7</option>
<option value="8">8</option>
</select></div>

<div class="tsizeform">
<b class="oldinput">Identification Mark</b>
<input type="text" name="identification_mark" required="">
</div></div>

<div class="pad-t-3 g align-r tabs">
    <a href="#tabv2" class="btn btne">Next</a>
</div></div>

<div class="tab-content pad-2" id="tabv2">
    <div class="g l2 m1 s1 x1 ggap-3 pad-t-5 oldinput blue-text talign-l">
        <div class="tsizeform">
            <b class="oldinput">Father's Name</b>
            <input type="text" name="father_name" required="">
        </div>
        <div class="tsizeform">
            <b class="oldinput">Mother's Name</b>
            <input type="text" name="mother_name" required="">
        </div>
        <div class="tsizeform">
            <b class="oldinput">Parent's Phone No</b>
            <input type="text" name="parent_phone" required="">
        </div>
    </div>

```

```
<b class="oldinput">Guardian's Name</b>
<input type="text" name="guardian_name" required=""></div>

<div class="tsizeform">
    <b class="oldinput">Guardian's Phone No</b>
    <input type="text" name="guardian_number" required=""></div>

<div class="tsizeform">
    <b class="oldinput">Relationship with Guardian</b>
    <select name="relation_with_guardian" class="black-text"
required="">
        <option value="">Select One</option>
        <option value="parents">Parents</option>
        <option value="brother">Brother</option>
        <option value="sister">Sister</option>
        <option value="uncle">Uncle</option>
        <option value="auntie">Auntie</option>
        <option value="other">Other</option>
    </select></div>

<div class="tsizeform">
    <b class="oldinput">Parent/G Email</b>
    <input type="pemail" name="pemail" required="">
</div></div>

<div class="tsizeform pad-t-3 tabs g g2">
<div class="g align-l">
    <a href="#tabv1" class="btn btne">PREVIOUS</a></div>
<div class="g align-r">
    <a href="#tabv3" class="btn btne">Next</a>
</div></div>

</div>
```

```
<div class="tab-content pad-2" id="tabv3">
    <div class="g l2 m1 s1 x1 ggap-3 pad-t-5 oldinput blue-text talign-l">
        <div class="tsizeform">
            <b class="oldinput">Current Address</b>
            <textarea class="oaddress" name="address" required=""></textarea>
    </div>
    <div class="tsizeform">
        <b class="oldinput">Permanant address</b>
        <textarea class="paddress" name="permanant address" id="paddress"
required=""></textarea></div>
    <div class="tsizeform">
        <b class="oldinput">From</b>
        <select name="from" class="black-text" required="">
            <option value="">Select One</option>
            <option value="hostel">Hostel</option>
            <option value="home">Home</option>
            <option value="Other">Other</option>
        </select></div>
        <div class="tsizeform">
            <b class="oldinput">City</b>
            <input type="text" name="city" required=""></div>
        <div class="tsizeform">
            <b class="oldinput">Pin code</b>
            <input type="text" name="phone" required=""></div>
        </div>
        <div class="pad-t-5 tsizeform tabs g g2">
            <div class="g align-l">
                <a href="#tabv2" class="btn btne">PREVIOUS</a></div>
```

```
<div class="g align-r tabs">
  <span class="btn btne" onclick="validSubmit('#signup')">Submit</span>
</div></div>
</div> </form>
</div></section>

<section class="h-50"></section>
<?php include("inc/frontpagefooter.php") ?>
  <script src="https://cdn.jsdelivr.net/gh/aj-
techsoul/ELICSS@4.0.2/eli.min.js"></script>
  <script type="text/javascript" src="assets/js/struct.js"></script>
</body>
</html>
```

Back End:

```
const sheetName = 'Sheet1'

const scriptProp = PropertiesService.getScriptProperties()

function intialSetup () {
  const activeSpreadsheet = SpreadsheetApp.getActiveSpreadsheet()
  scriptProp.setProperty('key', activeSpreadsheet.getId())
}

function doPost (e) {
  const lock = LockService.getScriptLock()
  lock.tryLock(10000)
  try {
    const doc = SpreadsheetApp.openById(scriptProp.getProperty('key'))
    const sheet = doc.getSheetByName(sheetName)
    const headers = sheet.getRange(1, 1, 1, sheet.getLastColumn()).getValues()[0]
```

```

const nextRow = sheet.getLastRow() + 1
const newRow = headers.map(function(header) {
    return header === 'Date' ? new Date() : e.parameter[header]
})

sheet.getRange(nextRow, 1, 1, newRow.length).setValues([newRow])
return ContentService
    .createTextOutput(JSON.stringify({ 'result': 'success', 'row': nextRow }))
    .setMimeType(ContentService.MimeType.JSON)
}

catch (e) {
    return ContentService
        .createTextOutput(JSON.stringify({ 'result': 'error', 'error': e }))
        .setMimeType(ContentService.MimeType.JSON)
}
finally {
    lock.releaseLock()
}

```

Students Login:**Front End:**

```

<!DOCTYPE html>
<html smooth>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Login</title>

```

```
<link rel="stylesheet" type="text/css" href="assets/css/design.css">
</head>
<body>
<?php include("inc/frontpageheader.php") ?>
<section class="pad-t-10 pad-b-10 g align-c ">
<div class="card g talign-c container ggap-10 creamwhite w-30">

<form id="loginid" action="p/studentlogin" method="POST" onsubmit="return
false;">
    <div class="g ggap-5">
        <div class="">
            <strong class="tsize-10">Student Login</strong></div>
        <div class="">
            <div class="g gaa valign-c">
                Student ID: <input type="int" name="id" ricon="mdi mdi-check"
required="">
                Password: <input type="password" name="password" ricon="mdi
mdi-check" required=""></div></div>
                <input type="hidden" name="csrf" value="<?php echo
$_SESSION['token'] ?>">
                <div class=" g align-c ">
                    <span class="btn green" onclick="validSubmit('#loginid')" style="width:9em;">Login</span>
                </div>
                <div class="g g2">
                    <a href="REGISTRATION" class="blue-text">Register</a>
                    <a href="forgotpassword.php" class="blue-text">Forgot Password?</a>
                </div>
            </div>
        </div>
    </div>
</form>
```

```
</div></div>

</div></form></section>

<?php include("inc/frontpagefooter.php") ?>

<script src="https://cdn.jsdelivr.net/gh/aj-
techsoul/ELICSS@4.0.2/eli.min.js"></script>

<script type="text/javascript" src="struct.js"></script>

</body>
</html>
```

Back End:

```
case "studentlogin":  
    if(isset($_POST['id'])&&isset($_POST['password'])&&  
check_csrf($csrf_got)){  
        $tbl = "students";  
        $id = addslashes($_POST['id']);  
        $pass = md5($_POST['password']);  
        $sql = "SELECT * FROM $tbl WHERE id LIKE '$id' AND  
password='$pass' AND status='1' ";  
        $data = $db->query($sql);  
        if (COUNT($data) > 0){  
            $_SESSION['user'] = $data[0];  
            $_SESSION['user']['role'] = "student";  
            $dob = $_SESSION['user']['dob'];  
            echo "Successfull Login";  
            $refer = $_SERVER["HTTP_REFERER"];  
            $ref1 = explode('/', $refer);  
            settype($ref1, 'Array');  
            $ref = end($ref1);
```

```
$ref2 = explode('?', $ref);
settype($ref2, 'Array');
$urlquery = end($ref2);
$ref = str_replace($urlquery, "", $ref);
$ref = str_replace("?", "", $ref);
$redic = "studentpanel.php";
$redirect = __BASEURL__.$redic;
echo "<script type='text/javascript'> setTimeout(function(){
window.location = '" . $redirect . "'; }, 1000); </script>";
}
else{
echo "Invalid Login, Try Again!";
echo '<script type="text/javascript"> swal("Oops", "Invalid Login,
Kindly Try Again!", "error"); </script>';
}
else{
echo "Invalid Login, Try Again!";
echo '<script type="text/javascript"> swal("Oops", "Invalid Login, Kindly
Try Again!", "error"); </script>';
}
break;
```

Admin/Teacher Login:

Front End:

```
<!DOCTYPE html>
<html smooth>
<head>
<meta charset="utf-8">
```

```

<meta name="viewport" content="width=device-width, initial-scale=1">
<title>Admin Login</title>
<link rel="stylesheet" type="text/css" href="assets/css/design.css">
</head>
<body>
<?php include("inc/frontpageheader.php")?>
<section class="pad-t-10 pad-b-10 g align-c ">
    <div class="card g talign-c container ggap-10 creamwhite w-30">
        <form id="loginid" action="p/login" method="POST" onsubmit="return false;">
            <div class="g ggap-5">
                <div>
                    <strong class="tsize-10">Admin Login</strong></div>
                <div>
                    <div class="g gaa valign-c">
                        Email: <input type="email" name="email" ricon="mdi mdi-check" required="">
                        Password: <input type="password" name="password" ricon="mdi mdi-check" required=""></div></div>
                        <input type="hidden" name="csrf" value="<?php echo $_SESSION['token'] ?>">
                </div>
                <div class="g align-c ">
                    <span class="btn green" onclick="validSubmit('#loginid')"
style="width:9em;">Login</span></div>
                </div></div></form></section>
<?php include("inc/frontpagefooter.php") ?>
<script src="https://cdn.jsdelivr.net/gh/aj-techsoul/ELICSS@4.0.2/eli.min.js"></script>
<script type="text/javascript" src="struct.js"></script>

```

```
</body>
</html>
```

Back End:

```
case "login":
    if      (isset($_POST['email']))    &&      isset($_POST['password'])    &&
check_csrf($csrf_got))
{
    $tbl = "user";
    $email = addslashes($_POST['email']);
    $pass = md5($_POST['password']);
    $sql = "SELECT id,name,phone,email,role FROM $tbl WHERE email
LIKE '$email' AND password='$pass' AND status='1' ";
    $data = $db->query($sql);
    if (COUNT($data) > 0)
    {
        $_SESSION['user'] = $data[0];
        $roles =$_SESSION['user']['role'];
        echo "Successfull Login";
        $refer = $_SERVER["HTTP_REFERER"];
        $ref1 = explode('/', $refer);
        settype($ref1, 'Array');
        $ref = end($ref1);
        $ref2 = explode('?', $ref);
        settype($ref2, 'Array');
        $urlquery = end($ref2);
        $ref = str_replace($urlquery, "", $ref);
        $ref = str_replace("?", "", $ref);
```

```
if($roles == "admin"){
    $redic = "adminpanel.php";
}
else if($roles == "teacher"){
    $redic = "teacherpanel.php";
}
$redirect = __BASEURL__.$redic;
echo "<script type='text/javascript'> setTimeout(function(){
window.location = '" . $redirect . "'}, 1000); </script>";
}
else{
    echo "Invalid Login, Try Again!";
    echo '<script type="text/javascript"> swal("Oops", "Invalid Login,
Kindly Try Again!", "error"); </script>';
}
else{
    echo "Invalid Login, Try Again!";
    echo '<script type="text/javascript"> swal("Oops", "Invalid Login, Kindly
Try Again!", "error"); </script>';
}
break;
```

Student Monthly Payment:

Front End:

```
<!DOCTYPE html smooth>
<html>
<head>
    <meta charset="utf-8">
```

```

<meta name="viewport" content="width=device-width, initial-scale=1">
<title>Student</title>
<link rel="stylesheet" type="text/css" href="assets/css/studentspanel.css">
<link rel="stylesheet" type="text/css" href="assets/css/design.css">
</head>
<body>
<?php include("inc/studentsidebar.php")?>
<main>
<div class="topbar">
<ul>
<li><i class="mdi mdi-menu tsize-10" onclick="sbtoggle('#sidebar')"></i></li>
</ul>
<div></div>
<ul>
<li><a href="studentnotice.php" class="mdi mdi-bell-outline"></a></li>
</ul></div>
<!-- Page Content -->
<section class="page">
<h3 class="heading"><strong>Monthly Fee Records</strong></h3>
<div class="pad-t-5 g g1 align-c">
<section class="g l3 m3 s1 xs1 ggap-1">
<?php $db = new DATABASE;
$cid = $_SESSION['user']['cid'];
$sid = $_SESSION['user']['id'];
$cclss = $db->query("SELECT * FROM classlist
WHERE id='$cid' ")[0];
$startmonth = 1;
$endmonth = 12;

```

```
for ($i=$startmonth; $i <= $endmonth; $i++) {  
  
$payments = $db->query("SELECT * FROM payment  
WHERE cid='$cid' AND sid='$sid' AND month='$i' ");  
if(count($payments) > 0){  
    $status = "active";  
}  
elseif($i == date('m')){  
    $status = 'inactive';  
}  
else{  
    $status = "inactive";  
}  
  
$monthname = date('F', mktime(0, 0, 0, $i, 10));  
echo '<div class="feembox '.$status.' g align-fc">  
    <h6>'.$monthname.'</h6>  
    <strong class="mdi mdi-currency-inr"> '.$clss['fee'].' </strong>  
    <span class="btn modal-target" modal-target="#modelpay"  
        style="width:5em;"></span></div>';  
}  
?  
</section>  
<div id="modelpay" class="modal">  
    <div class="modal-container w-p50">  
        <i class="modalclosebtn mdi mdi-close"></i>  
        <div class="card pad-5 g align-c ggap paymentbox teal lighten-5">  
            <div><strong class="g align-l tsize-5">Receipt From payment: <?php echo  
$monthl=date("M") ?></strong></div>  
            <div class="g align-l tsize-4"><strong class="mdi mdi-currency-inr"><?php
```

```
echo $clss['fee']?></strong></div>
<div class="align-c"-----></div>
<div class="g ggap align-l">
<p class="tsize-2">
<strong>Name: <?php echo $_SESSION['user']['name']; ?><br>
Class: <?php echo $_SESSION['user']['cid']; ?> A<br>
Email: <?php echo $_SESSION['user']['email']; ?><br>
Receipt Number: <?php echo (rand()) ?>
</strong>
<strong>Monthly Fee: <i class="mdi mdi-currency-inr"><?php echo
$clss['fee']?></i></strong></p></div>
<div>
<div class="collapse-header paybtn" collapse-target="#cp1">
<h5 class="mdi mdi-credit-card">Pay By Card</h5>
</div>
<div class="collapse-body paybtn" id="cp1">
<p><div id="container"></div></p></div>
<div class="collapse-header paybtn" collapse-target="#cp2">
<h5 class="mdi mdi-contactless-payment">Pay By UPI</h5></div>
<div class="collapse-body paybtn" id="cp2">
<span modal-target="#modal3" class="modal-target btn btn-
small">UPI</span>
</div></div>
</div></div>
</div></section>
</main>
<div id="modal3" class="modal">
<div class="modal-container">
```

```
<i class="modalclosebtn mdi mdi-close"></i>
<div class="g align-c">
<form method="post" action="feepanel.php">
<label>Name:</label>
<input type="text" name="first_name" required="">
<label>Email:</label>
<input type="email" name="email" required="">
<label>Fee Month:</label>
<select name="months" required="">
    <option>Select Month</option>
    <option value="Jan">Jan</option>
    <option value="Feb">Feb</option>
    <option value="March">March</option>
    <option value="April">April</option>
    <option value="May">May</option>
    <option value="June">June</option>
    <option value="July">July</option>
    <option value="Aug">Aug</option>
    <option value="Sept">Sept</option>
    <option value="Oct">Oct</option>
    <option value="Nov">Nov</option>
    <option value="Dec">Dec</option>
</select>
<label>Amount:</label>
<?php $db = new DATABASE;
    $cid = $_SESSION['user']['cid'];
    $amount = $db->query("SELECT c.* FROM classlist as c
    WHERE c.id='$cid' ");
```

```

$tmp->viewer($amount,"<strong      class='mdi      mdi-currency-inr'
value='{$id}'> {$fee}</strong"); ?>
<div id="google-pay-button"></div>
<div class="g align-c">
<button type="submit"    name="submit-payment">Submit
Payment</button></div></form> </div>
</div></div>

<div id="modal2" class="modal">
<div class="modal-container">
<i class="modalclosebtn mdi mdi-close"></i>
<p><button onclick="onGooglePayLoaded()">Pay</button></p>
</div> </div>

<script      async src="https://pay.google.com/gp/p/js/pay.js"
onload="onGooglePayLoaded()"></script>
<script      src="https://cdn.jsdelivr.net/gh/aj-
techsoul/ELICSS@4.0.2/eli.min.js"></script>
<script type="text/javascript" src="assets/js/adminpanel.js"></script>
</body>
</html>

```

Back End:

```

const baseRequest = {
  apiVersion: 2,
  apiVersionMinor: 0
};

const allowedCardNetworks = ["AMEX", "DISCOVER", "INTERAC", "JCB",
"MASTERCARD", "VISA"];

```

```
const allowedCardAuthMethods = ["PAN_ONLY", "CRYPTOGRAM_3DS"];
const tokenizationSpecification = {
  type: 'PAYMENT_GATEWAY',
  parameters: {
    'gateway': 'example',
    'gatewayMerchantId': 'exampleGatewayMerchantId'
  }
};
const baseCardPaymentMethod = {
  type: 'CARD',
  parameters: {
    allowedAuthMethods: allowedCardAuthMethods,
    allowedCardNetworks: allowedCardNetworks
  }
};
const cardPaymentMethod = Object.assign(
  {},
  baseCardPaymentMethod, {
    tokenizationSpecification: tokenizationSpecification
  }
);
let paymentsClient = null;
function getGoogleIsReadyToPayRequest() {
  return Object.assign(
    {},
    baseRequest, {
      allowedPaymentMethods: [baseCardPaymentMethod]
    })
}
function getGooglePaymentDataRequest() {
  const paymentDataRequest = Object.assign({}, baseRequest);
```

```

paymentDataRequest.allowedPaymentMethods = [cardPaymentMethod];
paymentDataRequest.transactionInfo = getGoogleTransactionInfo();
paymentDataRequest.merchantInfo = {merchantName: 'Example Merchant'
};
return paymentDataRequest;
}

function getGooglePaymentsClient() {
  if ( paymentsClient === null ) {
    paymentsClient = new google.payments.api.PaymentsClient({environment: 'TEST'});
  }
  return paymentsClient;
}

function onGooglePayLoaded() {
  const paymentsClient = getGooglePaymentsClient();
  paymentsClient.isReadyToPay(getGoogleIsReadyToPayRequest())
    .then(function(response) {
      if (response.result) {
        addGooglePayButton();
      }
    })
    .catch(function(err) {
      console.error(err);
    });
}

function addGooglePayButton() {
  const paymentsClient = getGooglePaymentsClient();
  const button =
    paymentsClient.createButton({
      onClick: onGooglePaymentButtonClicked,
      allowedPaymentMethods: [baseCardPaymentMethod]});
  document.getElementById('container').appendChild(button);
}

function getGoogleTransactionInfo() {

```

```
return {  
    countryCode: 'IN',  
    currencyCode: 'INR',  
    totalPriceStatus: 'FINAL',  
    totalPrice: '1.00'  
};}  
  
function prefetchGooglePaymentData() {  
    const paymentDataRequest = getGooglePaymentDataRequest();  
    // transactionInfo must be set but does not affect cache  
    paymentDataRequest.transactionInfo = {  
        totalPriceStatus: 'NOT_CURRENTLY_KNOWN',  
        currencyCode: 'USD'};  
    const paymentsClient = getGooglePaymentsClient();  
    paymentsClient.prefetchPaymentData(paymentDataRequest);}  
  
function onGooglePaymentButtonClicked() {  
    const paymentDataRequest = getGooglePaymentDataRequest();  
    paymentDataRequest.transactionInfo = getGoogleTransactionInfo();  
    const paymentsClient = getGooglePaymentsClient();  
    paymentsClient.loadPaymentData(paymentDataRequest)  
        .then(function(paymentData) {  
            processPayment(paymentData);})  
        .catch(function(err) {  
            console.error(err);  
        });}  
  
function processPayment(paymentData) {  
    console.log(paymentData);  
    paymentToken = paymentData.paymentMethodData.tokenizationData.token;  
}

---


```

```
const googlePayButton = document.getElementById('google-pay-button');
googlePayButton.addEventListener('click', processPayment);
function processPayment() {
    const paymentDataRequest = {
        apiVersion: 2,
        apiVersionMinor: 0,
        allowedPaymentMethods: [
            {
                type: 'CARD',
                parameters: {
                    allowedAuthMethods: ['PAN_ONLY', 'CRYPTOGRAM_3DS'],
                    allowedCardNetworks: ['AMEX', 'DISCOVER', 'INTERAC', 'JCB',
'MASTERCARD', 'VISA']],
                tokenizationSpecification: {
                    type: 'PAYMENT_GATEWAY',
                    parameters: {
                        gateway: 'your_payment_gateway',
                        gatewayMerchantId: 'your_gateway_merchant_id'
                    }
                }
            },
            merchantInfo: {
                merchantId: 'your_merchant_id',
                merchantName: 'Your Merchant Name'
            },
            transactionInfo: {
                totalPriceStatus: 'FINAL',
                totalPrice: '1.00',
                currencyCode: 'USD'
            }
        ];
        const paymentDataRequestString = JSON.stringify(paymentDataRequest);
    }
}
```

```
const paymentOptions = {
    environment: 'TEST',
    paymentDataRequest: paymentDataRequestString,
    onSuccess: onGooglePaySuccess,
    onFailure: onGooglePayFailure
};

googlePayButton.style.display = 'none';
googlePayButton.style.pointerEvents = 'none';
google.payments.api.PaymentsClient.loadPaymentData(paymentOptions);

}

function onGooglePaySuccess(paymentData) {
    const form = document.querySelector('form');
    form.submit();
}

function onGooglePayFailure() {
    alert('Payment failed. Please try again.');
    googlePayButton.style.display = 'block';
    googlePayButton.style.pointerEvents = 'auto';
}
```

Teacher attendance:

Front End:

```
<!DOCTYPE html smooth>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Teacher</title>
```

```

<link rel="stylesheet" type="text/css" href="assets/css/adminpanel.css">
<link rel="stylesheet" type="text/css" href="assets/css/design.css">
<style type="text/css">
.dropdown { z-index:5; }
.dropdown a { display:block; }
</style>
</head>
<body>
<?php include("inc/teachersidedar.php") ?>
<main>
<div class="topbar">
<ul>
<li><i class="mdi mdi-menu tsize-10" onclick="sbtoggle('#sidebar')"></i></li>
</ul>
<div></div>
<ul>
<li><a href="teacherpanel.php" class="mdi mdi-bell-outline"></a></li>
</ul></div>
<!-- Page Content -->
<section class="page">
<div class="g g1a ggap-1 valign-c">
<h3 class="heading">Students Attendance</h3>
<div><div>
<?php
    echo "\n<strong>". $monthl = date("M"). "</strong>";
    echo "\t<strong>". $monthd = date("d"). "</strong>";
?></div>

```

```
<button href="#" class="btn btn-dropdown"> <span>Select Class</span>
    <ul class="dropdown white">
        <?php $db = new DATABASE;
            $classes = $db->query("SELECT * FROM classlist WHERE status='1' ");
            $tmp->viewer($classes,"<li><a
                href='teacherattendance.php?classid={{{id}}}'>{{{class}}} {{{section}}}</a></li>");
        ?>
    </ul>
</button></div></div>

<table class="edt"><thead><tr>
    <th>Student ID</th>
    <th>Name</th>
    <th>Attendance</th>
</tr></thead><tbody><?php
    $token = $_SESSION["token"];
    $classid = @$_GET['classid'];
    $db = new DATABASE;
    $tmp->viewer($db->query("SELECT s.id,s.name, CASE WHEN a.status > 0
THEN 'Present' ELSE 'Absent' END statustxt, a.date,CASE WHEN a.status IS NULL
THEN '0' ELSE a.status END status FROM students as s LEFT JOIN (SELECT *
FROM attendance WHERE date(date) = date() ) as a on a.stid = s.id WHERE s.cid
='\$classid' AND s.status='1'"),<tr id="row{{{id}}}">
    <td>{{{id}}}</td>
    <td>{{{name}}}</td>
    <td><span class="status {{{statustxt}}}" onclick="attendanceupdate(this)" data-
value="{{{status}}}" data-value="{{{status}}}" data-id="{{{id}}}" data-
action="attendance">{{{statustxt}}}</span></td></tr>');
?></tbody></table>
```

```
</section></main>

<!--Add attendance-->

<div id="addattendancemod" class="modal">
<div class="modal-container r-container">
<i class="mdi mdi-close modalclosebtn"></i>
<div class="modal-header"><h5 class="pad-b-2">Add Attendance</h5></div>
<div class="modal-body pad-t-2">
<form action="p/addattendance" id="attendanceaddfrm" method="POST"
enctype="multipart/form-data">
<section class=""><input type="text" name="sid" label="SID" >
<input type="text" name="date" label="DATE" >
<span class="btn small clr mdi mdi-check radius-1"
onclick="validSubmit('#attendanceaddfrm')" >SAVE</span>
<input type="hidden" name="csrf" value="<?php echo $_SESSION['token']
?>">
</section> </form>
</div></div>
</div>

<!--Edit attendance-->

<div id="editattendancemod" class="modal">
<div class="modal-container r-container">
<i class="mdi mdi-close modalclosebtn"></i>
<div class="modal-header"><h5 class="pad-b-2">Update
Attendance</h5></div>
<div class="modal-body pad-t-2">
<form action="p/editattendance" id="attendanceeditfrm" method="POST"
enctype="multipart/form-data">
<section >
```

```

<input type="text" name="sid" label="SID" >
<input type="text" name="date" label="DATE" >
<span class="btn small clr mdi mdi-check radius-1"
onclick="validSubmit('#attendanceeditfrm')" >SAVE</span>
<input type="hidden" name="id" value="">
<input type="hidden" name="csrf" value="<?php echo $_SESSION['token'] ?>">
</section></form>
</div></div>
</div><script src="https://cdn.jsdelivr.net/gh/aj-
techsoul/ELICSS@4.0.2/eli.min.js"></script>
<script type="text/javascript" src="assets/js/adminpanel.js"></script>
</body>
</html>

```

Back End:

Php:

```

case "ATTENDANCE_UPDATE":
    if(isset($_POST)      && $v->required(@$_POST['id'], "ID")      &&  $v-
>required(@$_POST['status'], "Status")){
        $tbl = 'attendance';
        $fd = array();
        $fd['status'] = $_POST['status'];
        $fd['stid'] = $_POST['id'];
        $fd['date'] = date("Y-m-d H:i:s");
        $chk = $db->query("SELECT * FROM attendance WHERE stid='$fd[stid]' AND
date(date) = date() ");
        if(count($chk) > 0){
            $fd['id'] = @$chk[0]['id'];

```

```

$res = array();
if($fd['status'] >= 1){
    $fd['status'] = 0;
    $res = $db->update_row($tbl,$fd," id = '$fd[id]' ");
}
else {
    $fd['status'] = 1;
    $res = $db->update_row($tbl,$fd," id = '$fd[id]' ");
}
}

else{
$res = array();
if($fd['status'] >= 1){
    $fd['status'] = 0;
    $res = $db->insert_row($tbl,$fd);
}
else {
    $fd['status'] = 1;
    $res = $db->insert_row($tbl,$fd);
}
}

if($res['success']){
    $res['status'] = $fd['status'];
}
else{
    $res['status'] = $_POST['status'];
}

if($res['success']){
    echo json_encode($res);
}

```

```

else{
    $res['message'] = "Unable to update";
    echo json_encode($res);
}

else {
    echo "Try Again";
}

break;

```

Javascript:

```

function attendanceupdate(field){
    var dvalue = field.getAttribute('data-value') || 1;
    var id = field.getAttribute('data-id');
    var tbl = field.getAttribute('data-action');
    var action = "p/ATTENDANCE_UPDATE/";
    var senddata = 'id='+id+'&status='+dvalue;
    epost(action,senddata, function(data){
        data = JSON.parse(data);
        if(data.success){
            var tag = 'Successfully';
            if(data.message.indexOf(tag) != -1){
                switch(dvalue){
                    case '1':
                        field.innerHTML = 'Absent';
                        field.classList.add('red');
                        field.classList.remove('green');
                        field.setAttribute('data-value',0);
                }
            }
        }
    });
}

```

```
        case '0':  
            field.innerHTML = 'Present';  
            field.classList.add('green');  
            field.classList.remove('red');  
            field.setAttribute('data-value',1);  
            break;  
        }  
    } );  
}
```

CSS CODE FOR:

Over all:

```
@import  
url('https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;700;900&display=swap');  
root{--radius: 10em;}  
body{font-family: 'Poppins', sans-serif!important;font-weight: 500!important;}  
.bg{background-image:url("../img/head.png");min-height:85vh;background-size:  
cover;background-attachment: fixed;}  
.hbg{background-color:rgba(20, 25, 70, 1.0);position: sticky;top: 0;left: 0;right: 0;z-  
index: 3;}  
.fbg{background-color:rgba(20, 25, 70, 1.0);}  
.headimg{display: block;width: 100%;height: 100%;min-height: 500px;object-fit:  
cover;border-radius: var(--radius);position: relative;animation-name: right;animation-  
duration: 3s;}  
.frontslide{display: block;width: 100%;height: 300px;object-fit: cover;border-radius:  
var(--radius);cursor: pointer;}  
.lis{background-color:rgba(10, 10, 10, 0.02);border-radius: var(--radius);}
```

```
.course{position: relative; width: 100%;}  
.overlays {position: absolute; bottom: 0; left: 0; right: 0; background-color: black; overflow: hidden; width: 100%; height: 0; transition: .5s ease; border-radius: var(--radius);}  
.course:hover .overlays {height: 10%; opacity: 1;}  
.textss {color: white; font-size: 20px; position: absolute; top: 50%; left: 50%; -webkit-transform: translate(-50%, -50%); -ms-transform: translate(-50%, -50%); transform: translate(-50%, -50%); text-align: center;}  
.closebtn {position: absolute; top: 10px; right: 15px; color: white; font-size: 35px; cursor: pointer;}  
.displayimg {position: relative; display: none;}  
.icons::before {font-size: 2.2em;}  
header .brand img {max-height: 250px !important;}  
.undernav {position: relative;}  
.undernav:hover::before {content: ""; background: white; width: 100%; height: 3px; position: absolute; bottom: 0em; border-radius: 50%; animation: zoomIn .5s; }  
.apic {width: 100%; height: 300px; object-fit: cover; border-radius: var(--radius); position: relative;}  
.creamwhite {background-color: rgb(253, 255, 245);}  
.btne {width: 13em !important;}  
.btnI {width: 27em !important;}  
.oaddress,.paddress {min-height: 30vh !important;}  
.tsizeform {font-size: 0.8em;}  
.oldinput {padding-left: 0.3em !important;}  
.bt�s {display: none; text-align: justify; width: 3em !important;}  
.tra {background-color: grey;}  
.feembox {min-height: 250px; min-width: 200px; align-content: center; gap: 1em; color: white; background-color: grey; }
```

```
.feembox .btn { display:none; }

.feembox.active { background-color:green; }
.feembox.active .btn { pointer-events: none; display: block; background-color:rgba(0, 0, 0, .3); }
.feembox.active .btn::before { content:"Paid"; }
.feembox.inactive { background-color:red; }
.feembox.inactive .btn { display: block; background-color:rgba(0, 0, 0, .3); }
.feembox.inactive .btn::before { content:"Pay"; }
```

Admin Panel:

```
:root {--c0 : rgba(0,0,255,.02);--c1 : #fafaff;--c2 : #01d19d;--c3 : #625deb;--c4 : #52cfcb;--c5 : #fde395;--c6 : #6f9ab2; }

.tcol{color: red; }

body { display:grid; grid-template-columns:auto 1fr; background:var(--c0); }

.btn { background-color:var(--c3); }

.truncate { white-space: nowrap; overflow: hidden; text-overflow: ellipsis; }

#sidebar.is-visible { display:grid; position:sticky; left:0px; top:0px; bottom:0px; width:250px; background:var(--c1); height:100vh; overflow:hidden; overflow-y:auto; grid-gap:2em; align-content:start; background:inherit; }

#sidebar:not(is-visible) { padding:0px; width:0px; overflow:hidden; }

#sidebar .brand { display:grid; grid-template-columns:1fr auto; align-content:center; padding:.5em 1em; }

#sidebar .brand i.mdi { font-size:1.7em; color:rgba(0,0,0,.6); }

#sidebar ul { display:grid; grid-gap:.2em; padding:.5em 1em; }

#sidebar ul li { display: grid; }

#sidebar ul li a { padding:.2em 1em; font-size:1.2em; border-radius:50px;
```

```
color:rgba(0,0,0,.8);    display:grid; grid-template-columns:auto 1fr auto; align-items:center; grid-gap:.5em; transition:.1s all ease-in-out; }

#sidebar ul li a.mdi::before { font-size:1.5em; color:var(--c3); }

#sidebar ul a:hover, #sidebar li.active > a { background:var(--c3); color:var(--c1); }

#sidebar ul li a.mdi:hover::before, #sidebar ul li.active a.mdi::before { font-size:1.5em; color:var(--c1); }

#sidebar ul > li > ul:not(active) { display:none; transition:.5s all; }

#sidebar ul > li > ul.active { display:grid; animation:fadeInLeft 1s; transition:1s all; background:var(--c0); border-radius:var(--radius); margin:var(--margin); }

#sidebar ul > li > ul.active li a { white-space: nowrap; overflow: hidden; text-overflow: ellipsis; }

.topbar { position: sticky; top:0; background:var(--c01); display:grid; grid-auto-flow:column; grid-template-columns:auto 1fr auto; border-bottom:1px solid rgba(0,0,0,.01); align-content:center; margin:var(--margin); margin-right:1em; padding:.5em 0em; z-index:3; }

.topbar ul { display:grid; padding:0px; margin:0px; list-style:none; display:grid; grid-auto-flow:column; justify-content: start; align-items:center; grid-gap:1.5em; }

.topbar ul a::before { font-size:1.5em; }

.topbar ul a { display:grid; grid-template-columns:auto 1fr; align-items:center; }

.topbar .mdi-menu { margin-left:.3em; }

.page { min-height:90vh; display:grid; background-color:var(--c1); padding:0em 1em; border-radius:var(--radius); margin:var(--margin); box-shadow:0px 0px 5px 0px rgba(0,0,0,.05); align-content:start; overflow:hidden; overflow-y: auto; margin-left:1em; margin-right:1em; }

.page > .heading { color:var(--c3); }
```

Student Panel:

```
:root {--c0 : rgba(0,0,255,.02);--c1 : #fafaff;--c2 : #fdfefe;--c3 : #625deb;--c4 : #52cfcb;--c5 : #fde395;--c6 : #6f9ab2;}

.tcol{color: red;}

body { display:grid; grid-template-columns:auto 1fr; background:var(--c0); }

.btn { background-color:var(--c3); }

.truncate { white-space: nowrap; overflow: hidden; text-overflow: ellipsis; }

#sidebar.is-visible { display:grid; position:sticky; left:0px; top:0px; bottom:0px; width:250px; background:var(--c1); height:100vh; overflow:hidden; overflow-y:auto; grid-gap:2em; align-content:start; background:inherit; }

#sidebar:not(is-visible) { padding:0px; width:0px; overflow:hidden; }

#sidebar .brand { display:grid; grid-template-columns:1fr auto; align-content:center; padding:.5em 1em; }

#sidebar .brand i.mdi { font-size:1.7em; color:rgba(0,0,0,.6); }

#sidebar ul { display:grid; grid-gap:.2em; padding:.5em 1em; }

#sidebar ul li { display: grid; }

#sidebar ul li a { padding:.2em 1em; font-size:1.2em; border-radius:50px; color:rgba(0,0,0,.8); display:grid; grid-template-columns:auto 1fr auto; align-items:center; grid-gap:.5em; transition:.1s all ease-in-out; }

#sidebar ul li a.mdi::before { font-size:1.5em; color:var(--c3); }

#sidebar ul a:hover, #sidebar li.active > a { background:var(--c3); color:var(--c1); }

#sidebar ul li a.mdi:hover::before, #sidebar ul li.active a.mdi::before { font-size:1.5em; color:var(--c1); }

#sidebar ul > li > ul:not(active) { display:none; transition:.5s all; }

#sidebar ul > li > ul.active { display:grid; animation:fadeInLeft 1s; transition:1s all; background:var(--c0); border-radius:var(--radius); margin:var(--margin); }

#sidebar ul > li > ul.active li a { white-space: nowrap; overflow: hidden; text-overflow: ellipsis; }
```

```
.topbar { position: sticky; top:0; background:var(--c01);  
    display:grid; grid-auto-flow:column; grid-template-columns:auto 1fr auto;  
    border-bottom:1px solid rgba(0,0,0,.01); align-content:center; margin:var(--  
margin);  
    margin-right:1em; padding:.5em 0em; z-index:3; }  
.topbar ul { display:grid; padding:0px; margin:0px; list-style:none; display:grid; grid-  
auto-flow:column; justify-content: start; align-items:center; grid-gap:1.5em; }  
.topbar ul a::before { font-size:1.5em; }  
.topbar ul a { display:grid; grid-template-columns:auto 1fr; align-items:center; }  
.topbar .mdi-menu { margin-left:.3em; }  
.page { min-height:90vh; display:grid; background-color:var(--c1); padding:0em 1em;  
border-radius:var(--radius); margin:var(--margin); box-shadow:0px 0px 5px 0px  
rgba(0,0,0,.05); align-content:start; overflow:hidden; overflow-y: auto; margin-  
left:1em; margin-right:1em; }  
.page > .heading { color:var(--c3); }  
table, tr, td { border: 4px solid black; border-collapse: collapse; min-height: 30em; min-  
width: 10em; color: white; font-weight: bold; }  
.paybtn { width: 80%; }  
.paymentbox { border: 1px solid; border-radius: 2em; }
```

THANK YOU

