

School Management System

BY

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of
Masters of Science in Computer Science and Engineering

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DAFFODIL INTERNATIONAL UNIVERSITY


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APPROVAL

This Project/Thesis titled "School Management System", submitted by Md. Jahid Hasan, ID No: 172-25-590 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of M.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 06-12-2019.


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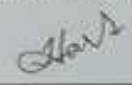
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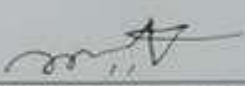
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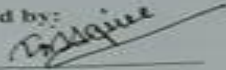
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I hereby declare that, this project has been done by us under the supervision of **TANVIR SIDDIQUE, ASSISTANT TEACHER, Department of CSE** Daffodil International University. I also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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Finally, I must acknowledge with due respect the constant support and patients of my parents.

ABSTRACT

School management system is a software which is very helpful for the students, teachers, guardians, visitors & School authorities also. In the current system all the activities are done manually. Its very time consuming & costly. My school management system deals with the various activities related school, students, teachers, authorities & guardians. In this software it has Superadmin & under his authority everybody will control such as student, teachers, guardians, staffs etc. Overall School Management System website is a project to help the students as well as the teachers & staff to maintain the school in the best way possible.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

School Management System is a software which will be help to handle the whole activities of schools. Here you can add multiple school or college or university in one platform. SMS & Emails is the most powerful facilities nowadays. It provides many facilities such as stored all data of school. For example, tuition fee, exam, assignment, guardian feedback etc. It can generate many kinds of reports which are required by the management during working purpose.

1.2 Motivation of work

In the case of reality of Bangladesh education system, still in village schools are working in old process like paper work or hand written. When people are going to comfortable with software then their work will be getting very easy because nowadays everyone has a smartphone so that they can easily browse this software from any web browser & on the other hand academic support person can easily store students, teachers, guardians all that information easily. It can save money & less time.

1.3 Objectives of the software

1. Everyone can operate it via computer/smartphone/tabs with the help of internet.
2. Student Information.
3. Parent Access. ...
4. Teacher Information. .
5. Artificial Intelligence Integration. ...
6. Communication Facilities (Voice Messaging, E-mail, Chats, etc) ...
7. Attendance & Timetable Management.
8. Payment Details

1.4 Expected Outcome

This project is to develop that will be used in School activities like admit students, submit assignments, online exams, result publish, guardian feedback etc. I want make sure that all the person can get any kind of information regarding school. Students can view their result, attendance mark sheet no etc. On the other hand, guardian can get every information about his/her child. My plan was to make a tool so that the software can control multiple school & multiple school can connect to one server. And superadmin has the supreme power to handle all of the system.

1.5 Report Layout

Chapter 1: Introduction

In this chapter I have discussed about the motivation, objectives and the expected outcome of the project.

Chapter 2: Background

I discuss about the background circumstances of my project. I will talk about the related work, comparison to other candidate systems, the scope of the problem and challenges of the project.

Chapter 3: Requirement Specification

This chapter is all about the requirements like business process modeling, the requirement collection and analysis, the use case model of the project and their description, the logical relational database model and the design requirements.

Chapter 4: Design Specification

In this chapter all the designs of the project. Front-end design, back-end design, interaction design and UX and the implementation requirements.

Chapter 5: Implementation and Testing

This chapter contains the implementation of database, front-end designs, interactions and the test results of the project.

Chapter 6: Conclusion and Future Scope

I will discuss about the conclusion and the scope for further developments which pretty much derive about the project.

CHAPTER 2

BACKGROUND

2.1 Introduction

I have designed interactive software which can be operated in many devices through internet. In here teacher can attach assignment & students can view & submit the assignment. Not only students can see the exam mark, here guardian can also view & share their feedback and there is an option where students result can send directly to guardian contact no & email. They can view their attendance, payment due also.

2.2 Related work

There is a lot of project is available nowadays. Most of the schools are now buy education erp so that they can store their school all information in software. My project are much similar like others but there is a big difference from others. In here you can add multiple school at a time. Schools and academic institutes are extensively using technology to nurture young talent and make every day functioning of the school a breeze. Essentially, a school management system involves student management, teacher management, and parent. It stores the database in an efficient manner, it student's performance, fees, exams, celebrations etc. happen with a gentle touch.

2.3 Comparative Studies

Such applications often offer many features that help to enhance the performance of schools with minimum efforts. School Management software does it by avoiding the manual paper works and automation of many academic and administrative activities. Now let us take a look at why institutes need to implement it.. My project are much similar like others but there is a big difference from others. In here you can add multiple school at a time.

2.4 Scope of the Problem

Only, people who are accustomed to regular use of smartphones or computers can operate this software. Extensive modules and features make it difficult for a user to utilize the application. With huge flow in traffic the application is prone to performance issues. Few companies market their products at extravagant price, which are not affordable by growing organizations. Absence of proper internet-network makes it difficult for a user to access information, which is a significant disadvantage. The risk of data mishandling might be bothersome; but all these drawbacks can be evaded by choosing proper, cost-efficient and best software that best benefits an organization.

2.5 Challenges

- Teacher has to define marks part by part.
- Secured database.
- There are no privacy level when it comes to posting or submitting assignments, exam mark.
- Internet Connectivity.
- Training & Monitoring.
- Data Migration.

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Business Process Modeling

Business process modeling (BPM) in systems engineering is the activity of representing processes of an enterprise, so that the current process may be analyzed or improved. BPM is typically performed by business analysts, who provide expertise in the modeling discipline; by subject matter experts, who have specialized knowledge of the processes being modeled; or more commonly by a team comprising both. Alternatively, the process model can be derived directly from events' logs using process mining tools. Redesigning a process and implementing it is not a speedy enterprise. It can take months and occasionally years, depending on the extent of the process and sub-processes, how many people and systems are involved and how much of it needs to be redesigned. I used a UML Use Case Model as a business process model.

3.2 Requirement Collection & Analysis

There are some basic requirements collected during implementation of the software and also in the data collection. Here are some given below

- Maintain Records
- Manage Student Attendance.
- Track Student Performance.
- Schedule Timetable.
- Fee Collection.
- Improve Communication.
- Library Management.
- Transport System.
- Hostel System.
- Account System.
- Add Multiple School.

3.3 Use Case Modeling and Description

A use-case diagram is the simplified and graphical representation of how system works. It has been said before that "Use case diagrams are the blueprints for your system.

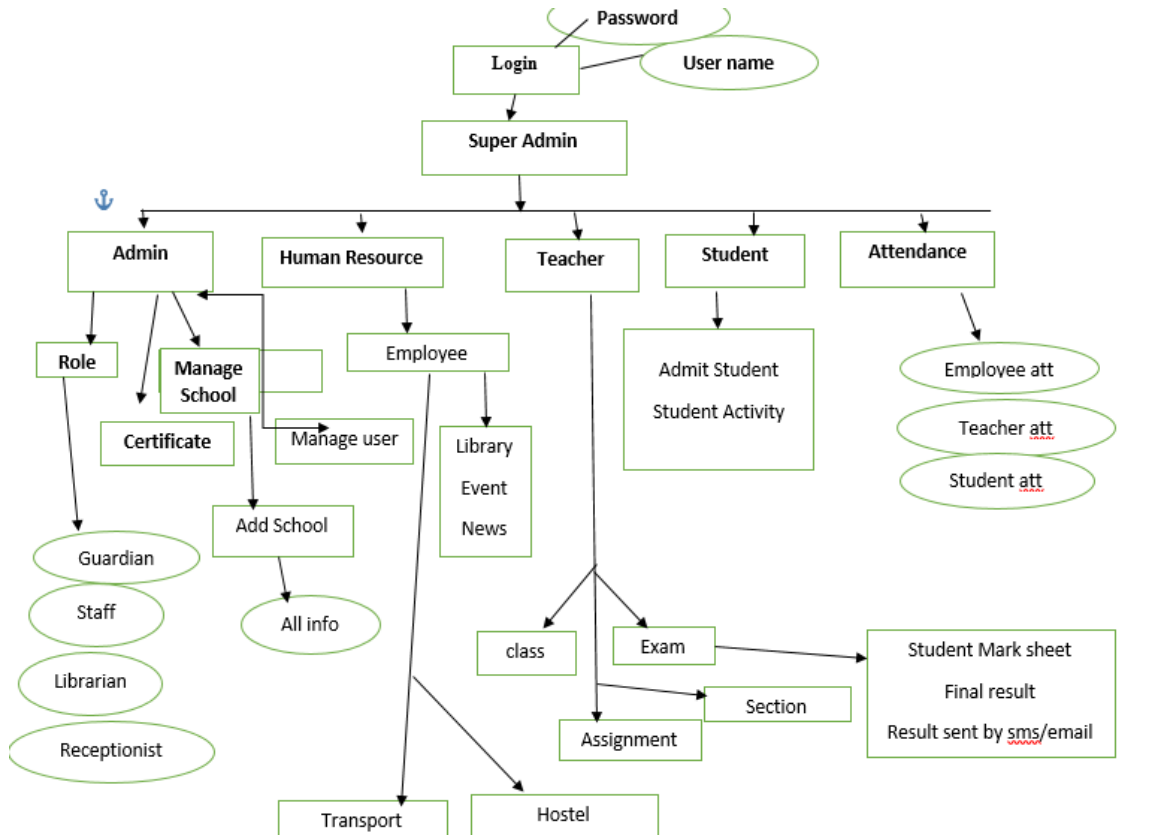


Figure 3.1: Use Case Model Diagram

3.3.1 Use Case Description

Table 3.1: Use case description of registration

Use Case	Login
Primary Actor	Teacher, Student, Guardian, Staff
Secondary Actor	Null
Pre-condition	Null
Scenario	<ul style="list-style-type: none">• Enter valid full name• Enter unique username• Enter valid university id• Enter valid email address• Enter password minimum of 6 character• Select a role
Post-condition	<ul style="list-style-type: none">• Registration successfully or failed• Edit profile

Table 3.2: Use case description of profile setting

Use Case	Profile setting
Primary Actor	Teacher, Student
Secondary Actor	Null
Pre-condition	Login
Scenario	<ul style="list-style-type: none">• Update profile photo• Additional personal information• Update skill/working field

Post-condition	<ul style="list-style-type: none"> • Updated successfully or failed • View profile
----------------	--

Table 3.3: Use case description of post assignment

Use Case	Create Assignment
Primary Actor	Teacher
Secondary Actor	Null
Pre-condition	Login as a teacher
Scenario	<ul style="list-style-type: none"> • Enter School Name • Enter course name • Enter section • Enter Grade • Enter course password
Post-condition	<ul style="list-style-type: none"> • Assignment created successfully or failed • Attach file • Edit file • Delete file

Table 3.4: Use case description of submit assignment

Use Case	Submit assignment
Primary Actor	Student
Secondary Actor	Null
Pre-condition	Login, enrolled

Scenario	<ul style="list-style-type: none"> • Enter assignment title • Enter assignments files • Enter detail
Post-condition	<ul style="list-style-type: none"> • Assignment created successfully or failed • View assignment • Ask questions • Give answers
Post-condition	<ul style="list-style-type: none"> • Assignment created successfully or failed • View assignment • Ask questions • Give answers • Justify answers

Table 3.5: Use case description of marks

Use Case	Marks
Primary Actor	Teacher
Secondary Actor	Null
Pre-condition	Login, enrolled as a course creator
Scenario	<ul style="list-style-type: none"> • Enter questions' evaluation mark • Enter defends' evaluation mark
Post-condition	<ul style="list-style-type: none"> • View student's marks • View average marks of individual students

3.4 Logical Data Model

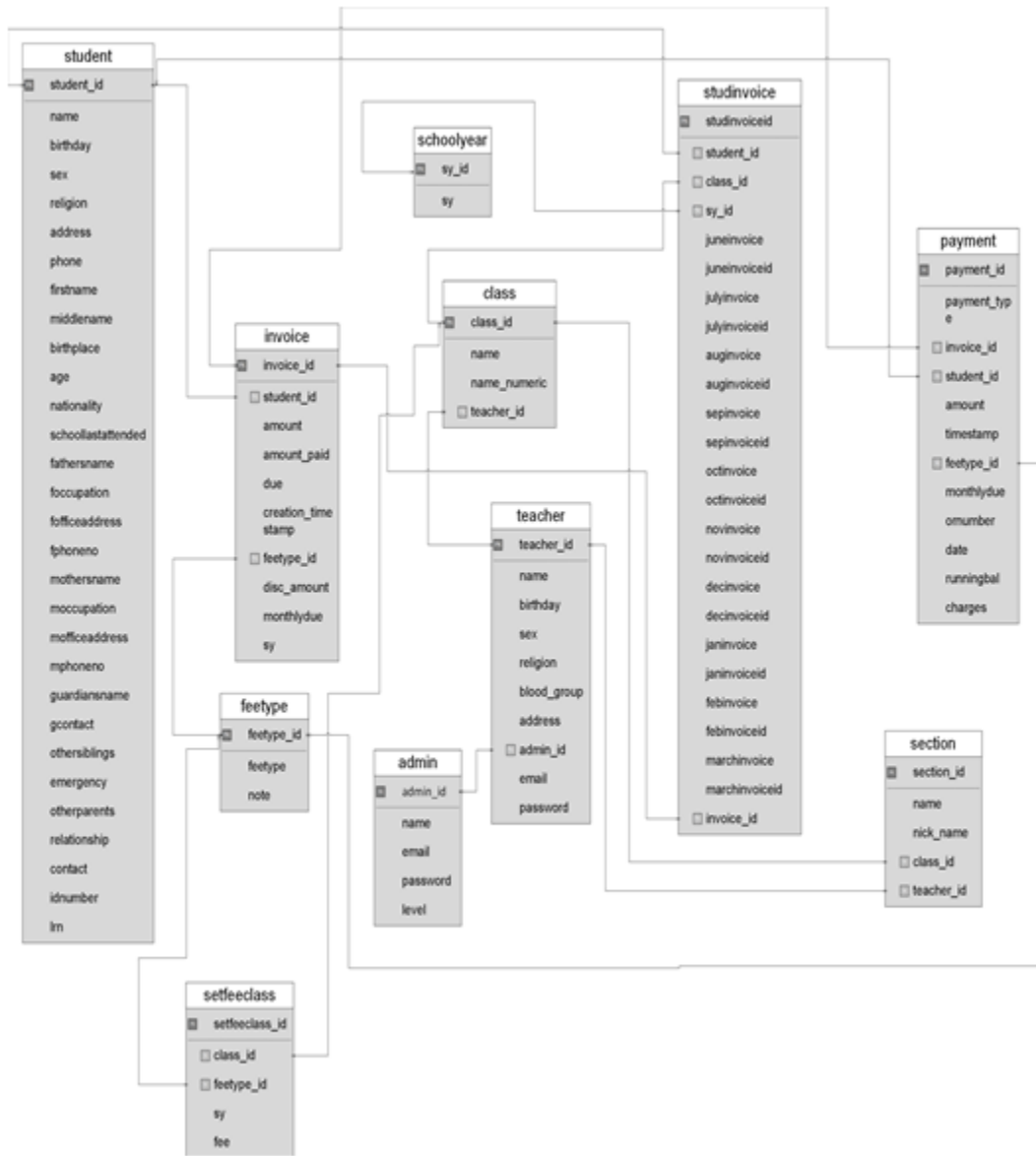


Figure 3.2: Logical Data Model

3.5 Design Requirements

3.5.1 Functional Requirement for Student

- Student should be able to login the system.
- Student can upload their assignment.
- Student can view their result & exam mark.
- Student can select their transport route.
- Student can book a seat on hostel.

3.5.2 Functional Requirement for Teacher

- Teacher should be able to login the system.
- Teacher can create course, section, upload exam mark, upload assignment, student attendance download.

3.5.3 Functional Requirement for Guardian.

- Guardian should be able to login the system.
- Create parent relationship with student.
- Can view their child activities.

3.5.4 Functional Requirement for Super Admin.

- Staff should be able to login the system.
- Can Upload school activities in website.
- Can set Role permission for employee.
- Can view student, teacher & employee attendance.
- Can add multiple school.

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-end Design

Front-end design is the representation of a software. This is the way of interaction way between the users and the servers. Front-end design is known as a client-side development. In the most aspect of a software development the most important part is to design the front-end. I created a simple front-end design for the users to co-operate with the software easily.

Here is some front-end design of our software given below.

4.1.1 How to Start GMSMS

For login to admin panel please follow the next steps:

1. Run the project path from any web browser like (<http://www.yourdomain.com/>).
2. Then you will see the following Login Screen.
3. Enter your username (superadmin) and password (123456).
4. Then Click to "**Log in**" Button.

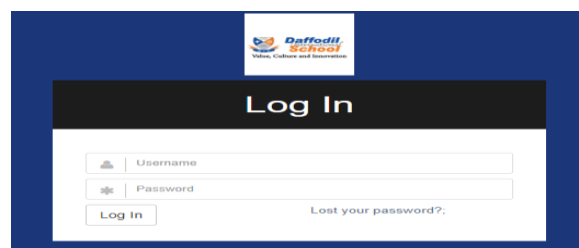


Figure 4.1: Login

4.1.2 Lost/Reset Password

For Lost password & recover password please follow the next steps:

1. From login screen please click **Lost Password**.
2. Then you will see another Screen.
3. Enter your user email & Then Click to "**Send**" Button.

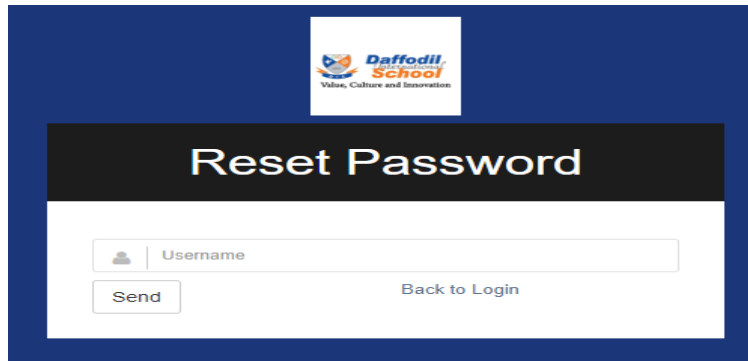


Figure 4.2: Reset Password

4.1.3 Dashboard

For view dashboard statistics please follow the next steps:

1. Run the project path from any web browser like (<http://www.yourdomain.com/>).
2. Then you will see the following Login Screen.
3. Enter your username (superadmin) and password (123456).
4. Then Click to **Log in** Button.

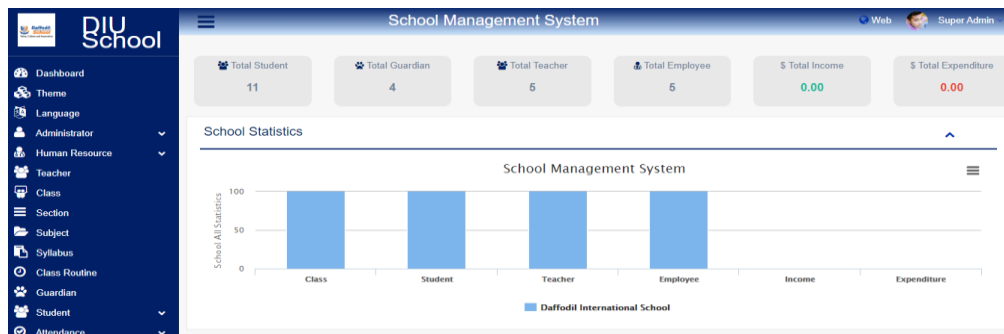


Figure 4.3: Dashboard.

4.1.4 Settings (Admin Only)

1. University Settings

For University Setting please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **University Setting** sub menu under **Setting** menu from left side bar.
3. Fill up all required fields as per expected value/data. Then Click to **Update** Button.

School Setting

Quick Link: [School Setting](#) | [Payment Setting](#) | [SMS Setting](#)

School Setting

Basic Information:

School Code	School Name *	Address *	Phone *
ASD23CR	Windsor Park High School	10433 Wolverine Way Bellevue, CA 984E	0123456789
Registration Date *	Email *	Fax	Footer
2018-10-03	info@gsms.com	25435345	Copyright © Windsor Park High School 20

Setting Information:

Currency *	Currency Symbol *	Session Start Month *	Session End Month *
usd	\$	July	June
Enable Frontend *	Exam final result *	Latitude	Longitude
Yes	Average of All Exam	37.814929	144.996617


Social Information:

Facebook URL	Twitter URL	Linkedin URL	Google Plus URL
https://www.facebook.com/	https://www.twitter.com/	https://www.linkedin.com/	https://plus.google.com/
Youtube URL	Instagram URL	Pinterest URL	
https://www.youtube.com/	Instagram URL	https://www.pinterest.com/	

Other Information:

Logo

Upload



Update

Figure 4.4: Settings

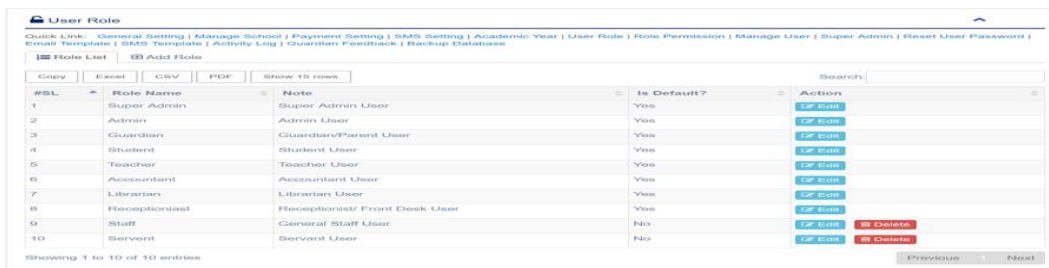
4.1.5 Administrator

System Administrator

User Role (ACL) (Super Admin Only)

For manage User Role please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **User Role** sub menu under **Administrator** menu from left side bar.
3. To add/create new **User Role** click **Add Role** tab.
4. To edit **User Role**, Click **Edit** button in the User Role list.
5. To Delete **User Role**, Click **Delete** button in the User Role list.



The screenshot shows a web application interface for managing user roles. At the top, there is a navigation menu with options like 'Quick Link', 'General Setting', 'Manage School', 'Payment Setting', 'SMS Setting', 'Academic Year', 'User Role', 'Role Permission', 'Manage User', 'Super Admin', and 'Reset User Password'. Below the navigation, there is a search bar and a 'Role List' section with an 'Add Role' button. The main content area contains a table with the following columns: #SL, Role Name, Note, Is Default?, and Action. The table lists 10 roles, including Super Admin, Admin, Guardian/Parent User, Student, Teacher, Accountant, Librarian, Receptionist, Staff, and Servant. Each role has an 'Action' column with buttons for 'Edit' and 'Delete'.

#SL	Role Name	Note	Is Default?	Action
1	Super Admin	Super Admin User	Yes	[Edit] [Delete]
2	Admin	Admin User	Yes	[Edit] [Delete]
3	Guardian	Guardian/Parent User	Yes	[Edit] [Delete]
4	Student	Student User	Yes	[Edit] [Delete]
5	Teacher	Teacher User	Yes	[Edit] [Delete]
6	Accountant	Accountant User	Yes	[Edit] [Delete]
7	Librarian	Librarian User	Yes	[Edit] [Delete]
8	Receptionist	Receptionist/ Front Desk User	Yes	[Edit] [Delete]
9	Staff	General Staff User	No	[Edit] [Delete]
10	Servant	Servant User	No	[Edit] [Delete]

Figure 4.5: System Administrator.

4.1.6 Payment Settings

1. Login to **System Admin** Panel.
2. Select **Payment Setting** sub menu under **Setting** menu from left side bar.
3. Fill up all required fields as per expected value/data. Then Click to **Update** Button.

4.1.7 SMS Settings

For SMS Setting please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **SMS Setting** sub menu under **Setting** menu from left side bar.
3. Fill up all required fields as per expected value/data. Then Click to **Update** Button.

4.1.8 Role Permission Setting (ACL) (Super Admin Only)

For manage Role Permission please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **Role Permission** sub menu under **Administrator** menu from left side bar.
3. To setting **Role Permission** click **Role Permission Setting** button in the User Role list.
4. Then check as per your expectation permission from the **Edit Role Permission** form
5. After check all expected checkbox click **Update Role Permission** button.

Role Permission

Quick Link: [General Setting](#) | [Manage School](#) | [Payment Setting](#) | [SMS Setting](#) | [Academic Year](#) | [User Role](#) | [Role Permission](#) | [Manage User](#) | [Super Admin](#) | [Reset User Password](#) | [Email Template](#) | [SMS Template](#) | [Activity Log](#) | [Guardian Feedback](#) | [Backup Database](#)

Role Permission

Copy Excel CSV PDF Show 15 rows Search:

#SL	Role Name	Note	Is Default?	Action
1	Super Admin	Super Admin User	Yes	Role Permission Setting
2	Admin	Admin User	Yes	Role Permission Setting
3	Guardian	Guardian/Parent User	Yes	Role Permission Setting
4	Student	Student User	Yes	Role Permission Setting
5	Teacher	Teacher User	Yes	Role Permission Setting
6	Accountant	Accountant User	Yes	Role Permission Setting
7	Librarian	Librarian User	Yes	Role Permission Setting
8	Receptionist	Receptionist/ Front Desk User	Yes	Role Permission Setting
9	Staff	General Staff User	No	Role Permission Setting
10	Servent	Servant User	No	Role Permission Setting

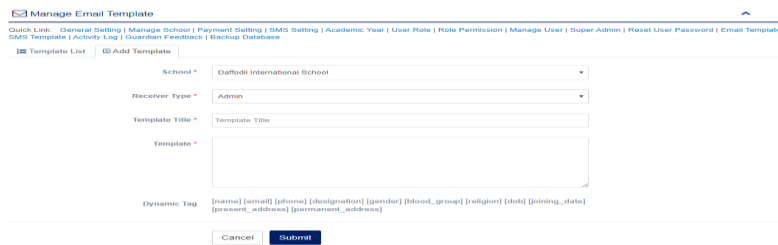
Showing 1 to 10 of 10 entries [Previous](#) [Next](#)

Figure 4.6: User Role Permission.

4.1.9 Manage Email Template

For manage Email Template please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **Email Template** sub menu under **Administrator** menu from left side bar.
3. To add/create new **Email Template** click **Add Email Template** tab.
4. To edit **Email Template**, Click **Edit** button in the Email Template list.
5. To Delete **Email Template**, Click **Delete** button in the Email Template list.



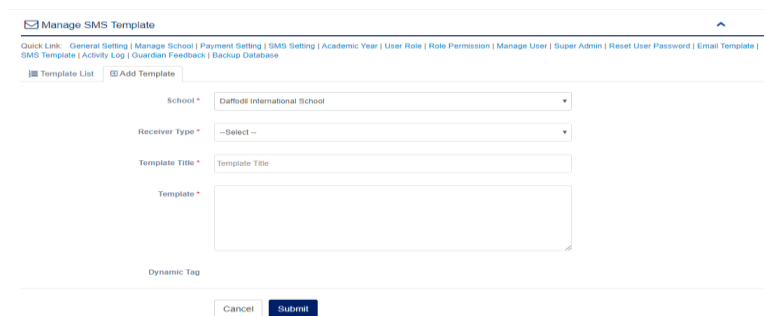
The screenshot shows the 'Manage Email Template' form. At the top, there is a breadcrumb trail: 'Quick Link: General Setting | Manage School | Payment Setting | SMS Setting | Academic Year | User Role | Role Permission | Manage User | Super Admin | Reset User Password | Email Template | SMS Template | Activity Log | Guardian Feedback | Backup Database'. Below this, there are two tabs: 'Template List' and 'Add Template', with 'Add Template' being the active tab. The form contains the following fields: 'School' (a dropdown menu with 'Daffodil International School' selected), 'Receiver Type' (a dropdown menu with 'Admin' selected), 'Template Title' (a text input field with 'Template Title' entered), and 'Template' (a large text area). Below these fields is a 'Dynamic Tag' section with a list of tags: '[name]', '[email]', '[phone]', '[designation]', '[gender]', '[blood_group]', '[religion]', '[dob]', '[joining_date]', '[present_address]', and '[permanent_address]'. At the bottom of the form are two buttons: 'Cancel' and 'Submit'.

Figure 4.7 Manage Email Template

4.1.10 Manage SMS Template

For manage SMS Template please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **SMS Template** sub menu under **Administrator** menu from left side bar.
3. To add/create new **SMS Template** click **Add SMS Template** tab.
4. To edit **SMS Template**, Click **Edit** button in the SMS Template list.
5. To Delete **SMS Template**, Click **Delete** button in the SMS Template list.



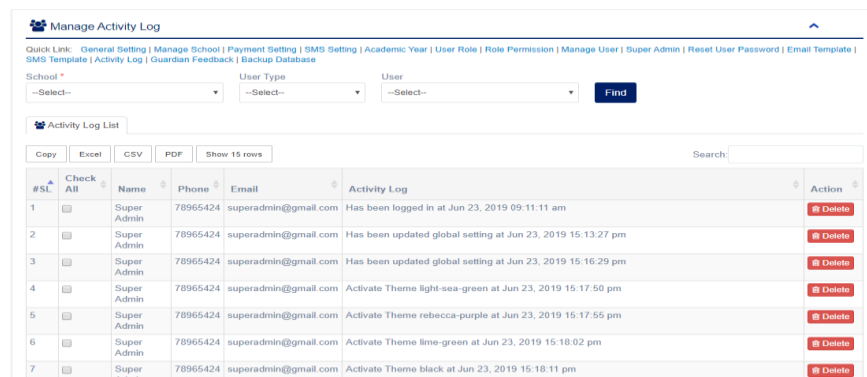
The screenshot shows the 'Manage SMS Template' form. At the top, there is a breadcrumb trail: 'Quick Link: General Setting | Manage School | Payment Setting | SMS Setting | Academic Year | User Role | Role Permission | Manage User | Super Admin | Reset User Password | Email Template | SMS Template | Activity Log | Guardian Feedback | Backup Database'. Below this, there are two tabs: 'Template List' and 'Add Template', with 'Add Template' being the active tab. The form contains the following fields: 'School' (a dropdown menu with 'Daffodil International School' selected), 'Receiver Type' (a dropdown menu with '--Select--' selected), 'Template Title' (a text input field with 'Template Title' entered), and 'Template' (a large text area). Below these fields is a 'Dynamic Tag' section with a list of tags: '[name]', '[email]', '[phone]', '[designation]', '[gender]', '[blood_group]', '[religion]', '[dob]', '[joining_date]', '[present_address]', and '[permanent_address]'. At the bottom of the form are two buttons: 'Cancel' and 'Submit'.

Figure 4.8: Manage SMS Template

4.1.11 Manage Activity Log

For manage User Activity Log please follow the next steps:

1. Login to **System Admin Panel**.
2. Select **Activity Log** sub menu under **Administrator** menu from left side bar.
3. To Delete **Activity Log** Click **Delete** button in the Activity Log list.



Manage Activity Log

Quick Link: General Setting | Manage School | Payment Setting | SMS Setting | Academic Year | User Role | Role Permission | Manage User | Super Admin | Reset User Password | Email Template | SMS Template | Activity Log | Guardian Feedback | Backup Database

School * --Select-- User Type --Select-- User --Select-- Find

Activity Log List

Copy Excel CSV PDF Show 15 rows Search:

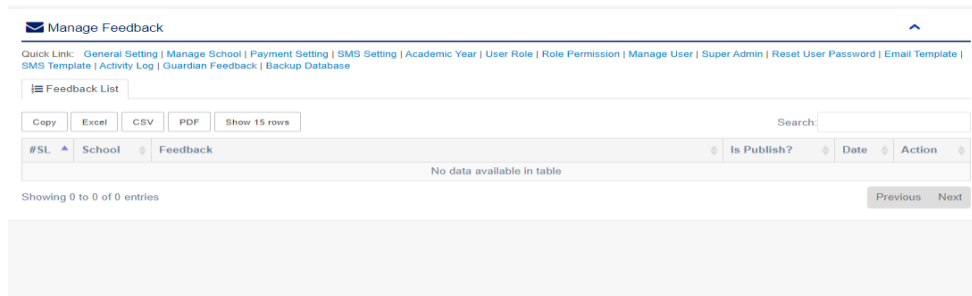
#SL	Check	Name	Phone	Email	Activity Log	Action
1	<input type="checkbox"/>	Super Admin	78965424	superadmin@gmail.com	Has been logged in at Jun 23, 2019 09:11:11 am	Delete
2	<input type="checkbox"/>	Super Admin	78965424	superadmin@gmail.com	Has been updated global setting at Jun 23, 2019 15:13:27 pm	Delete
3	<input type="checkbox"/>	Super Admin	78965424	superadmin@gmail.com	Has been updated global setting at Jun 23, 2019 15:16:29 pm	Delete
4	<input type="checkbox"/>	Super Admin	78965424	superadmin@gmail.com	Activate Theme light-sea-green at Jun 23, 2019 15:17:50 pm	Delete
5	<input type="checkbox"/>	Super Admin	78965424	superadmin@gmail.com	Activate Theme rebecca-purple at Jun 23, 2019 15:17:55 pm	Delete
6	<input type="checkbox"/>	Super Admin	78965424	superadmin@gmail.com	Activate Theme lime-green at Jun 23, 2019 15:18:02 pm	Delete
7	<input type="checkbox"/>	Super Admin	78965424	superadmin@gmail.com	Activate Theme black at Jun 23, 2019 15:18:11 pm	Delete

Figure 4.9 Manage Activity Log

4.1.12 Manage Guardian Feedback

For manage Guardian Feedback please follow the next steps:

1. Login to **System Admin Panel**.
2. Select **Publish Guardian Feedback** sub menu under **Administrator** menu from left side bar.
3. To Delete **Guardian Feedback** Click **Delete** button in the Guardian Feedback list.
4. To Publish/unpublished **Guardian Feedback** Click **Publish Now/ Unpublished Now** button in the Guardian Feedback list.



Manage Feedback

Quick Link: General Setting | Manage School | Payment Setting | SMS Setting | Academic Year | User Role | Role Permission | Manage User | Super Admin | Reset User Password | Email Template | SMS Template | Activity Log | Guardian Feedback | Backup Database

Feedback List

Copy Excel CSV PDF Show 15 rows Search:

#SL	School	Feedback	Is Publish?	Date	Action
No data available in table					

Showing 0 to 0 of 0 entries Previous Next

Figure 4.10 Guardian Feedback

4.1.13 Backup Database

For Backup Database please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **Backup** sub menu under **Administrator** menu from left side bar.
3. Then select **User Type & User** and fill up **Password & Confirm Password** Field with expected value.
4. Then click **Update** button to reset user password.

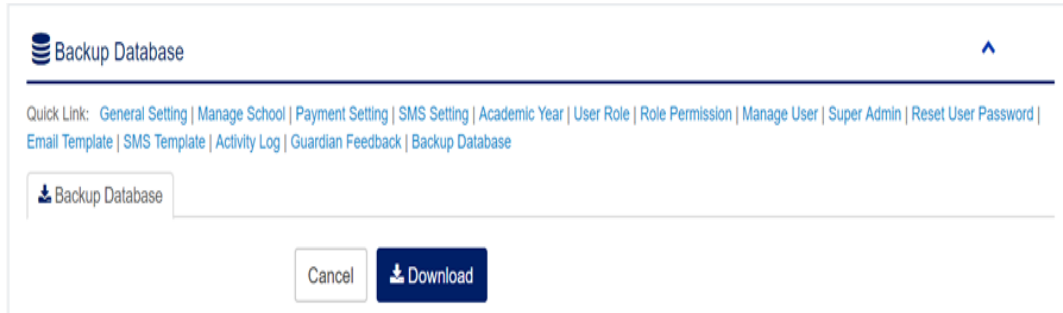
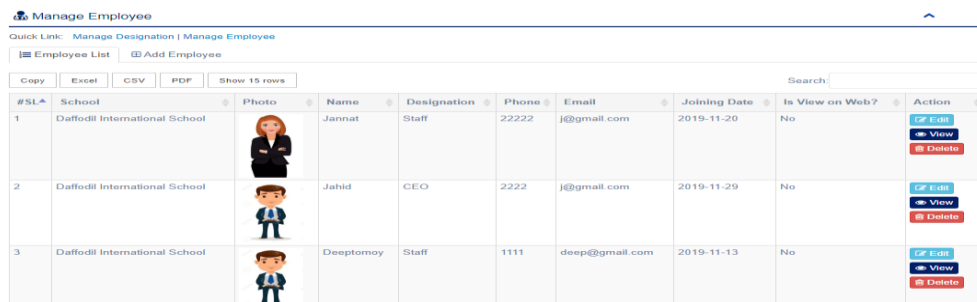


Figure 4.11: Database Backup

4.1.14 Employees

For Manage Employee please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **Manage Employee** sub menu under **Human Resource** menu from left side bar.
3. To Add/Create new **Employee** click **Add Employee** tab.
4. To Edit **Employee** Click **Edit** button in the Employee list.
5. To Delete **Employee**, Click **Delete** button in the Employee List.

The screenshot shows a web interface for 'Manage Employee'. At the top, there's a header with the title 'Manage Employee' and a navigation menu with links: 'Manage Designation | Manage Employee'. Below the menu, there are tabs for 'Employee List' and 'Add Employee'. There are also buttons for 'Copy', 'Excel', 'CSV', 'PDF', and 'Show 15 rows'. A search bar is present. The main content is a table with columns: '#SL#', 'School', 'Photo', 'Name', 'Designation', 'Phone', 'Email', 'Joining Date', 'Is View on Web?', and 'Action'. The table contains three rows of employee data.




#SL#	School	Photo	Name	Designation	Phone	Email	Joining Date	Is View on Web?	Action
1	Daffodil International School		Jannat	Staff	2222	j@gmail.com	2019-11-20	No	Edit View Delete
2	Daffodil International School		Jahid	CEO	2222	j@gmail.com	2019-11-29	No	Edit View Delete
3	Daffodil International School		Deeptomoy	Staff	1111	deep@gmail.com	2019-11-13	No	Edit View Delete

Figure 4.12: Employees

4.1.15 Teachers

1. Login to **System Admin Panel**.
2. Select **Teacher** menu from left side bar.
3. To Add/Create new **Teacher** click **Add Teacher** tab.
4. To Edit **Teacher** Click **Edit** button in the Teacher list.
5. To Delete **Teacher**, Click **Delete** button in the Teacher List.

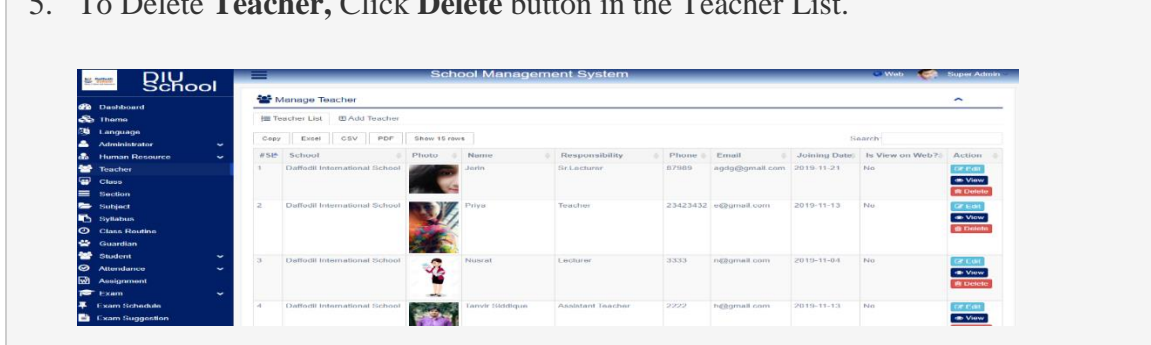


Figure 4.13: Teacher

4.1.16 Classes

For Manage Classes please follow the next steps:

1. Login to **System Admin Panel**.
2. Select **Class** menu from left side bar.
3. To Add/Create new **Class** click **Add Class** tab.
4. To Edit **Class** Click **Edit** button in the Class list.
5. To Delete **Class**, Click **Delete** button in the Class List.

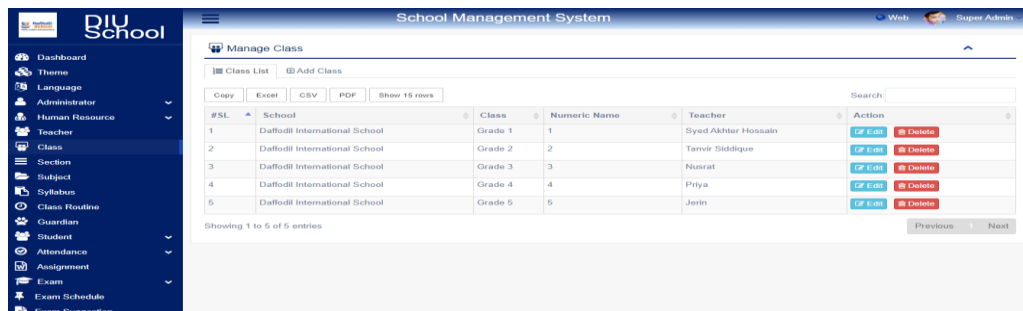


Figure 4.14: Class

4.1.17 Section

For Manage Section please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **Class** sub menu under **Section** main menu from left side bar.
3. To Add/Create new **Section** click **Add Section** tab. To Edit **Section** Click **Edit** button in the Section list.
4. To Delete **Section**, Click **Delete** button in the Section List.

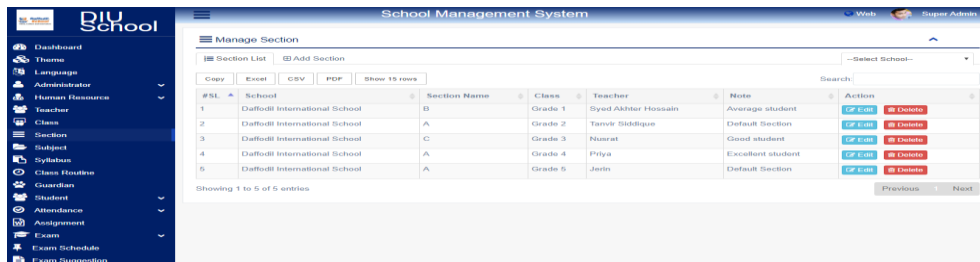


Figure 4.15: Section

4.1.18 Subject

For Manage Subject please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **Class** sub menu under **Subject** main menu from left side bar.
3. To Add/Create new **Subject** Click **Add Subject** tab. To Edit **Subject** Click **Edit** button in the Subject list.

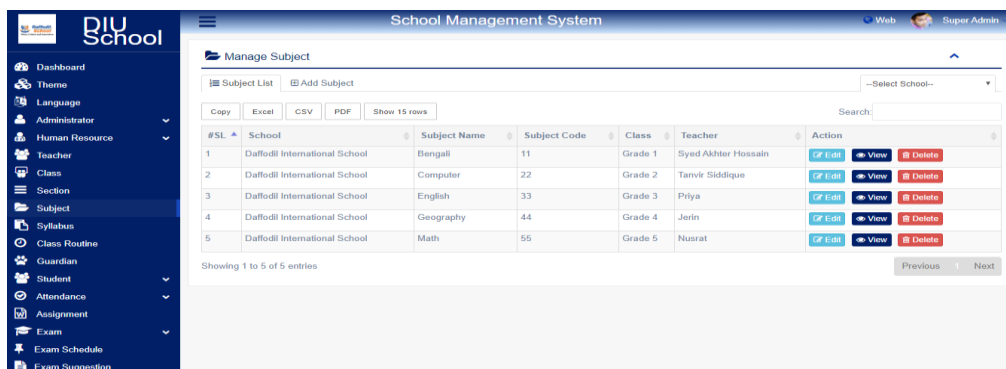


Figure 4.16: Subject

4.1.19 Syllabus

For Manage Syllabus please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **Class** sub menu under **Syllabus** main menu from left side bar.
3. To Add/Create new **Syllabus** click **Add Syllabus** tab.
4. To Delete **Syllabus**, Click **Delete** button in the Syllabus List.

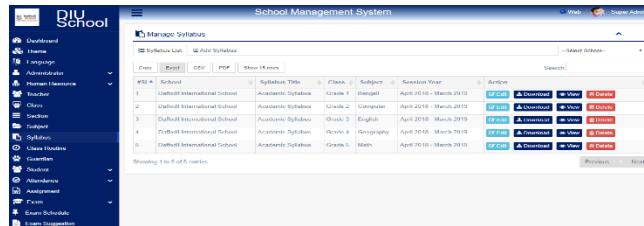


Figure 4.17: Syllabus

4.1.20 Class Routine

1. Login to **System Admin** Panel.
2. Select **Class** sub menu under **Class Routine** main menu from left side bar.
3. To Add/Create new **Class Routine** click **Add Class Routine** tab.
4. To Edit **Class Routine** Click **Edit** button in the Class Routine list.
5. To Delete **Class Routine**, Click **Delete** button in the Class Routine List.

Section	8:45 AM - 9:45 AM	9:30 AM - 10:15 AM	10:15 AM - 11:00 AM	11:00 AM - 11:45 AM	11:45 AM - 12:30 PM	
Sunday	Religion TW Ambris 102	Mathematics 101	Computer HDRL Thirmanne 101	Drawing Jessica Jorassen 101	Political Science TW Ambris 101	
Monday	8:00 AM - 8:45 AM English 101	8:45 AM - 9:30 AM Religion Mohammad Nawaz 101	9:30 AM - 10:15 AM Mathematics 101	10:15 AM - 11:00 AM Computer HDRL Thirmanne 101	11:00 AM - 11:45 AM Drawing Jessica Jorassen 101	11:45 AM - 12:30 PM Political Science TW Ambris 101
Tuesday	8:00 AM - 8:45 AM English 101	8:45 AM - 9:30 AM Religion MD Gunathilaka 101	9:30 AM - 10:15 AM Mathematics 101	10:15 AM - 11:00 AM Computer HDRL Thirmanne 101	11:00 AM - 11:45 AM General Science TW Ambris 101	11:45 AM - 12:30 PM Political Science TW Ambris 101
Wednesday	8:00 AM - 8:45 AM Literature Washington Sundar 101	8:45 AM - 9:30 AM Agriculture MD Gunathilaka 101	9:30 AM - 10:15 AM Mathematics 101	10:15 AM - 11:00 AM Computer HDRL Thirmanne 101	11:00 AM - 11:45 AM General Science TW Ambris 101	11:45 AM - 12:30 PM Political Science TW Ambris 101
Thursday	8:00 AM - 8:45 AM Literature Washington Sundar 101	8:45 AM - 9:30 AM Agriculture MD Gunathilaka 101	9:30 AM - 10:15 AM History DAJ Bracewell 101	10:15 AM - 11:00 AM English 101	11:00 AM - 11:45 AM General Science TW Ambris 101	11:45 AM - 12:30 PM Mathematics 101
Friday	8:00 AM - 8:45 AM Literature Washington Sundar 101	8:45 AM - 9:30 AM Agriculture MD Gunathilaka 101	9:30 AM - 10:15 AM History DAJ Bracewell 101	10:15 AM - 11:00 PM English 101	11:00 AM - 11:45 AM General Science TW Ambris 101	11:45 AM - 12:30 PM Mathematics 101

Figure 4.18: Class Routine

4.1.21 Guardian

For Manage Guardian please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **Guardian** main menu from left side bar.
3. To Add/Create new **Guardian** click **Add Guardian** tab.
4. To Edit **Guardian** Click **Edit** button in the Guardian list.
5. To Delete **Guardian** Click **Delete** button in the Guardian List.



Figure 4.19: Guardian

4.1.22 Student

a. Manage Student

For Manage Student please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **Student** sub menu under **Student** main menu from left side bar.
3. To Add/Create new **Student** click **Add Student** tab.
4. To Edit **Student** Click **Edit** button in the Student list.
5. To Delete **Student**, Click **Delete** button in the Student List.

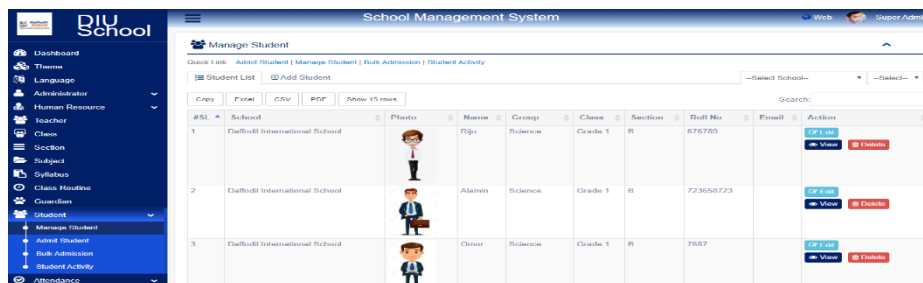


Figure 4.20: Student

b. Admit Student

For Admit Student please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **Admit Student** sub menu under **Student** main menu from left side bar.
3. To Add/Create new **Student** Please fill up the form and click submit button.

Manage Student

Quick Link: [Admit Student](#) | [Manage Student](#) | [Bulk Admission](#) | [Student Activity](#)

[Student List](#) [Add Student](#) --Select School-- --Select--

School * --Select--

Basic Information:

Name * Admission No * Admission Date * Birth Date *

Name Admission No Admission Date Birth Date

Gender * Blood Group Religion

--Select-- --Select-- Religion

Contact Information:

Guardian * Relation With Guardian Phone * National ID

--Select-- --Select-- Phone National ID

Present Address Permanent Address

Present Address Permanent Address

Academic Information:

Class * Section * Group Roll No *

--Select-- --Select-- --Select-- Roll No

Registration No Role * Discount Second Language

Registration No Student --Select-- Second Second

Figure 4.21: admit student

4.1.23 Attendance

a. Student Attendance

For Student Attendance please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **Student Attendance** sub menu under **Attendance** main menu from left side bar.
3. Then choose **Class, Section & Date** Then Click Find button to get student list.
4. To Manage **Student Attendance**, check for Present All or Late All or Absent All

#SL	Photo	Name	Email	Phone	Roll No	<input checked="" type="checkbox"/> Present All	<input type="checkbox"/> Late All	<input type="checkbox"/> Absent All
1		Priya		111	7777	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2		Omor		11	7687	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3		Alamin		3224	723658723	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Figure 4.22: Student attendance

b. Teacher Attendance

1. Login to **System Admin** Panel.
2. Select **Teacher Attendance** sub menu under **Attendance** main menu from left side bar.
3. Then choose **Date** and click **Find** button to get Teacher list
4. To Manage **Teacher Attendance**, check for Present All or Late All or Absent All.

#SL	Photo	Name	Responsibility	Phone	Email	<input checked="" type="checkbox"/> Present All	<input type="checkbox"/> Late All	<input type="checkbox"/> Absent All
1		Syed Akhter Hossain	Head Of the Department	66666	ae@gmail.com	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2		Tamvir Siddique	Assistant Teacher	2222	ht@gmail.com	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3		Nusrat	Lecturer	3333	nt@gmail.com	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4		Priya	Teacher	23423432	ee@gmail.com	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Figure 4.23: Teacher attendance

c. Employee Attendance

For Employee Attendance please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **Employee Attendance** sub menu under **Attendance** main menu from left side bar.
3. Then choose **Date** and click **Find** button to get Employee list
4. To Manage **Employee Attendance**, check for Present All or Late All or Absent All

#SL	Photo	Name	Designation	Phone	Email	Present All	Late All	Absent All
1		Arfan	Admin	11	x@gmail.com	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2		Kazi	Admin	11	y@gmail.com	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3		Deeptomoy	Staff	1111	deep@gmail.com	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Figure 4.24: Employee attendance.

4.1.24 Assignment

1. Login to **System Admin** Panel.
2. Select **Class** sub menu under **Assignment** main menu from left side bar.
3. To Add/Create new **Assignment** click **Add Assignment** tab.
4. To Edit **Assignment** Click **Edit** button in the Assignment list.
5. To Delete **Assignment**, Click **Delete** button in the Assignment List.

#SL	School	Assignment Title	Class	Subject	Deadline	Academic Year	Action
1	Daffodil International School	Class assignment	Grade 1	Bengali	19-11-2019	April 2018 - March 2019	Edit View Download Delete
2	Daffodil International School	assignment	Grade 2	Computer	09-11-2019	April 2018 - March 2019	Edit View Download Delete

Figure 4.25: Assignment

4.1.25 Exam

a. Exam Grade

For Manage Exam Grade please follow the next steps:

1. Login to **System Admin Panel**.
2. Select **Exam Grade** sub menu under **Exam** main menu from left side bar.
3. To Add/Create new **Exam Grade** click **Add Exam Grade** tab.
4. To Edit **Exam Grade** Click **Edit** button in the Exam Grade list.
5. To Delete **Exam Grade**, Click **Delete** button in the Exam Grade List.

The screenshot shows the 'Manage Grade' interface. At the top, there are quick links: Exam Grade | Exam Term | Exam Schedule | Exam Suggestion | Exam Attendance. Below that, there are tabs for 'Exam Grade List' and 'Add Exam Grade', and a dropdown for 'Select School'. There are also buttons for 'Copy', 'Excel', 'CSV', 'PDF', and 'Show 15 rows', along with a search bar. The main table has columns: #SL, School, Exam Grade, Grade Point, Mark From, Mark To, Note, and Action. One entry is shown: #SL 1, School Daffodil International School, Exam Grade A+, Grade Point 5.00, Mark From 80, Mark To 100, Note excellent. The Action column contains 'Edit' and 'Delete' buttons. At the bottom, it says 'Showing 1 to 1 of 1 entries' and has 'Previous 1 Next' navigation.

#SL	School	Exam Grade	Grade Point	Mark From	Mark To	Note	Action
1	Daffodil International School	A+	5.00	80	100	excellent	Edit Delete

Figure 4.26: Exam Grade

b. Exam Final Result

For Manage Exam Final Result Sheet please follow the next steps:

1. Login to **System Admin Panel**.
2. Select **Exam Final Result** sub menu under **Exam Mark** main menu from left side bar.
3. To Manage Exam Final Result select **(University), Class, Section**.
4. Then click **Find** button to get Student list. Fill up the form with correct data/value and click **Submit**.

The screenshot shows the 'Manage Exam final result' interface. At the top, there are quick links: Manage Mark | Exam Term Result | Exam final result | Merit List | Mark Sheet | Result Card | Mark send by Email | Mark send by SMS | Result Email | Result SMS. Below that, there are dropdowns for 'School' (Daffodil International School), 'Exam' (First term), 'Class' (Grade 1), and 'Section' (B), along with a 'Find' button. Below the dropdowns is a button labeled 'Exam final result'. The main table has columns: Roll No, Name, Photo, Exam Title, Total Subject, Exam Mark, Obtain Total, GPA, Grade, and Comment. Four entries are shown:

Roll No	Name	Photo	Exam Title	Total Subject	Exam Mark	Obtain Total	GPA	Grade	Comment
7777	Priya		First term	1	0	0	5.00	--Select--	excellent
7667	Omar		First term	1	0	0	5.00	--Select--	excellent
723658723	Alamin		First term	1	0	0	5.00	--Select--	excellent
676789	Riju		First term	1	0	0	5.00	--Select--	excellent

Figure 4.27: Exam Final Result

c. Student Mark Sheet

For Manage Student Mark Sheet please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **Student Mark Sheet** sub menu under **Mark** main menu from left side bar.
3. To Manage Mark Sheet select **(University), Exam, Class, Section & Student**.
4. Then click **Find** button to get Student Subject list.
5. Fill up the form with correct data/value and click **Submit**.

Roll No	Name	Photo	Total Subject	Exam Mark	Obtain Mark	Percentage	GPA	Grade	Result Status	Position in Section	Position in Class	Remark
676789	riju		0	0	0	0%	0.00			1st	1st	
723658723	alamin		0	0	0	0%	0.00			1st	1st	

Figure 4.28: Student Mark Sheet

4.1.26 Generate Certificate

For Generate Certificate please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **Generate Certificate** sub menu under **Certificate** main menu from left side bar.
3. To **Generate Certificate**, select class and certificate type and then click find.
4. Then click **Generate** button to **Generate** student specific Certificate.

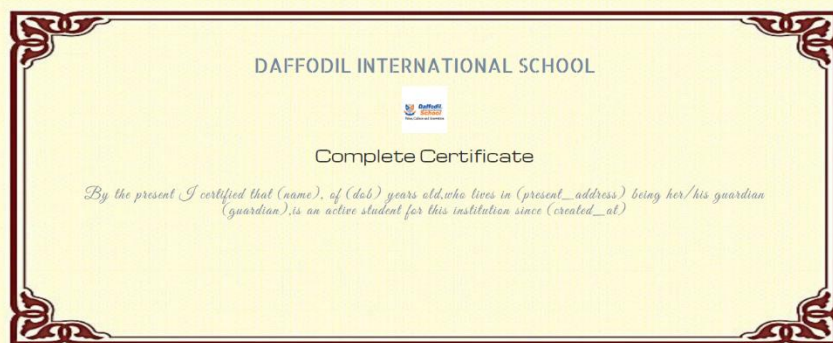


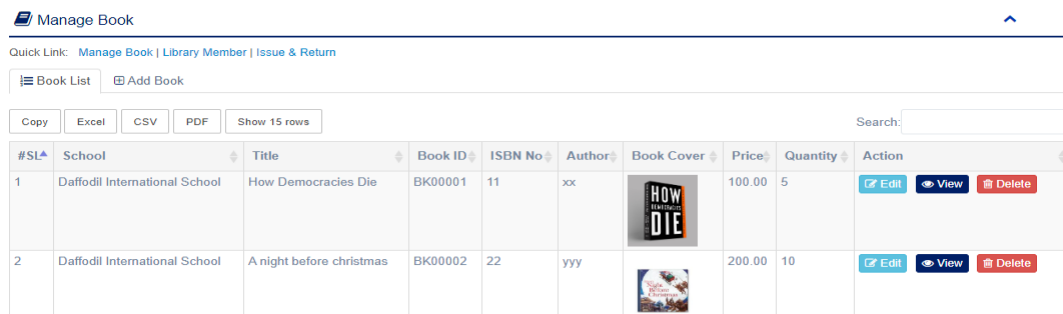
Figure 4.29: Certificate

4.1.27 Library

a. Manage Book

For Manage Mark please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **Book** sub menu under **Library** main menu from left side bar.
3. To Add/Create new **Book** click Add Book tab.
4. To Edit **Book** Click Edit button in the **Book** list.
5. To Delete **Book** Click Delete button in the **Book** List.



The screenshot shows the 'Manage Book' interface. At the top, there are tabs for 'Book List' and 'Add Book'. Below the tabs are buttons for 'Copy', 'Excel', 'CSV', 'PDF', and 'Show 15 rows'. A search bar is located on the right. The main content is a table with the following columns: #SL, School, Title, Book ID, ISBN No, Author, Book Cover, Price, Quantity, and Action. The table contains two rows of data.



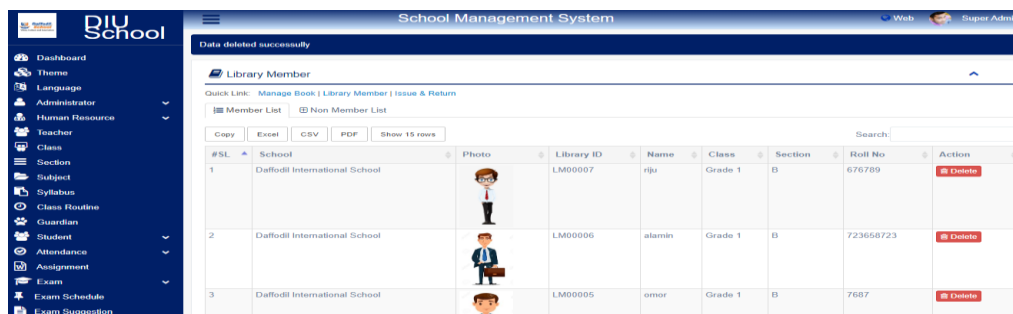
#SL	School	Title	Book ID	ISBN No	Author	Book Cover	Price	Quantity	Action
1	Daffodil International School	How Democracies Die	BK00001	11	xx		100.00	5	Edit View Delete
2	Daffodil International School	A night before christmas	BK00002	22	yyy		200.00	10	Edit View Delete

Figure 4.30: Library stock

b. Library Member

For Manage Library Member please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **Library Member** sub menu under **Library** main menu from left side bar.
3. To Add New **Library Member**, click **Non Member List** tab.
4. Then click **Add Library Member** button to get add **Library Member**.
5. To Delete **Library Member**, click delete button from **Member List** tab.



The screenshot shows the 'Library Member' interface. At the top, there are tabs for 'Member List' and 'Non Member List'. Below the tabs are buttons for 'Copy', 'Excel', 'CSV', 'PDF', and 'Show 15 rows'. A search bar is located on the right. The main content is a table with the following columns: #SL, School, Photo, Library ID, Name, Class, Section, Roll No, and Action. The table contains three rows of data.




#SL	School	Photo	Library ID	Name	Class	Section	Roll No	Action
1	Daffodil International School		LM00007	riju	Grade 1	B	676789	Delete
2	Daffodil International School		LM00006	alamin	Grade 1	B	723658723	Delete
3	Daffodil International School		LM00005	omor	Grade 1	B	7687	Delete

Figure 4.31: Library Member

c. Issue & Return

For Manage Issue & Return please follow the next steps:

1. Login to **System Admin Panel**.
2. Select **Issue & Return** sub menu under **Library** main menu from left side bar.
3. To Issue new **Book** click **New Issue** tab.
4. To Return **Book** Click **Return This** button in the **Issue List**.

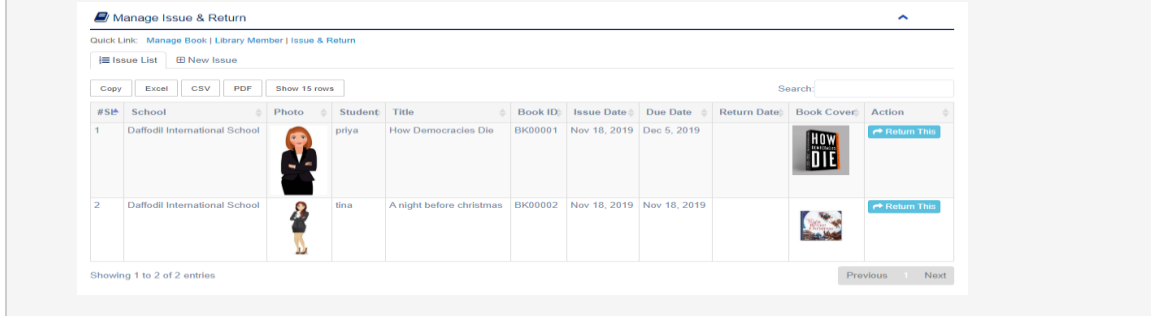


Figure 4.32: Issue & return

4.1.28 Transport

a. Manage Vehicle

For Manage Vehicle please follow the next steps:

1. Login to **System Admin Panel**.
2. Select **Manage Vehicle** sub menu under **Transport** main menu from left side bar.
3. To Add/Create new **Vehicle** click **Add Vehicle** tab. To Edit **Vehicle** Click Edit Button **Vehicle list**.
4. To Delete **Vehicle**, Click Delete button in the **Vehicle** List.

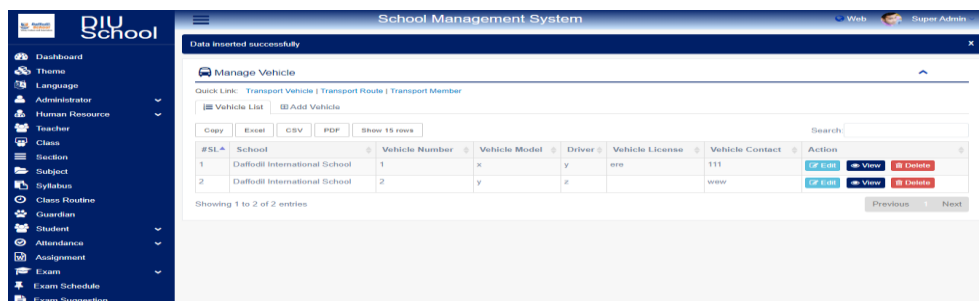
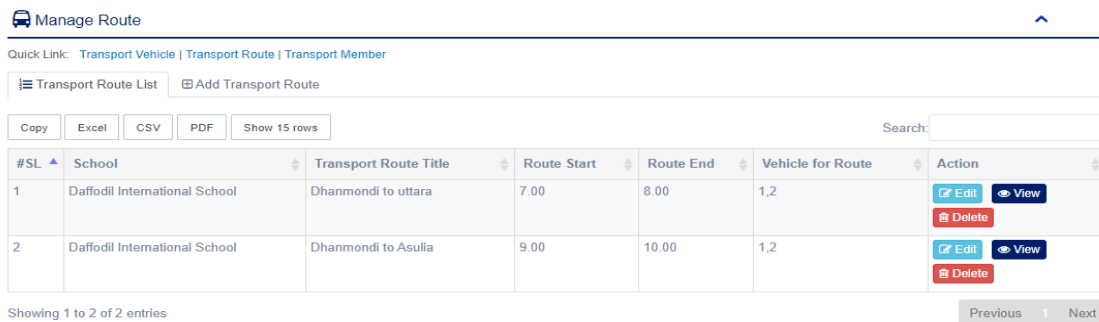


Figure 4.33: Manage Vehicle

b. Transport Route

For Manage Transport Route please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **Transport Route** sub menu under **Transport** main menu from left side bar.
3. To Add/Create new **Transport Route** Click **Add Transport Route** tab.
4. To Edit **Transport Route** Click Edit button in the **Transport Route** list.
5. To Delete **Transport Route** Click Delete button in the **Transport Route** List.



The screenshot shows the 'Manage Route' interface. At the top, there are navigation links: 'Transport Vehicle | Transport Route | Transport Member'. Below this, there are tabs for 'Transport Route List' (selected) and 'Add Transport Route'. There are also buttons for 'Copy', 'Excel', 'CSV', 'PDF', and 'Show 15 rows'. A search bar is present on the right. The main table has the following columns: #SL, School, Transport Route Title, Route Start, Route End, Vehicle for Route, and Action. There are two rows of data.

#SL	School	Transport Route Title	Route Start	Route End	Vehicle for Route	Action
1	Daffodil International School	Dhanmondi to utara	7.00	8.00	1,2	Edit View Delete
2	Daffodil International School	Dhanmondi to Asulia	9.00	10.00	1,2	Edit View Delete

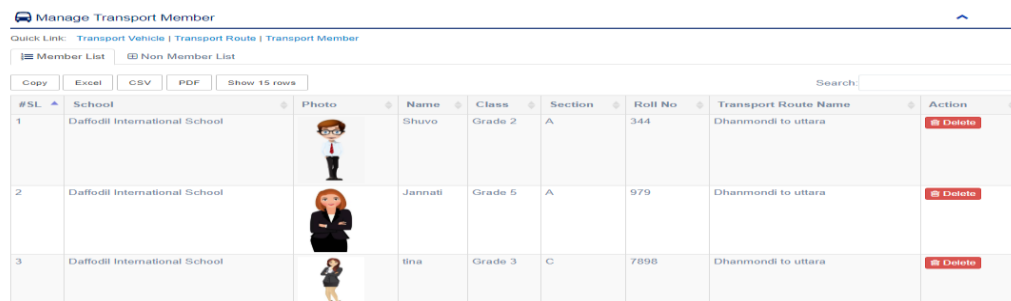
Showing 1 to 2 of 2 entries

Figure 4.34: Transport Route

c. Transport Member

For Manage Transport Member please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **Transport member** sub menu under **Transport** main menu from left side bar.
3. To add member, **Select Route** Click **Add to Transport** tab.
4. To Delete **Transport Member** Click Delete button in the **Transport Member**List.



The screenshot shows the 'Manage Transport Member' interface. At the top, there are navigation links: 'Transport Vehicle | Transport Route | Transport Member'. Below this, there are tabs for 'Member List' (selected) and 'Non Member List'. There are also buttons for 'Copy', 'Excel', 'CSV', 'PDF', and 'Show 15 rows'. A search bar is present on the right. The main table has the following columns: #SL, School, Photo, Name, Class, Section, Roll No, Transport Route Name, and Action. There are three rows of data.



#SL	School	Photo	Name	Class	Section	Roll No	Transport Route Name	Action
1	Daffodil International School		Shuvo	Grade 2	A	344	Dhanmondi to utara	Delete
2	Daffodil International School		Jannati	Grade 5	A	979	Dhanmondi to utara	Delete
3	Daffodil International School		tina	Grade 3	C	7898	Dhanmondi to utara	Delete

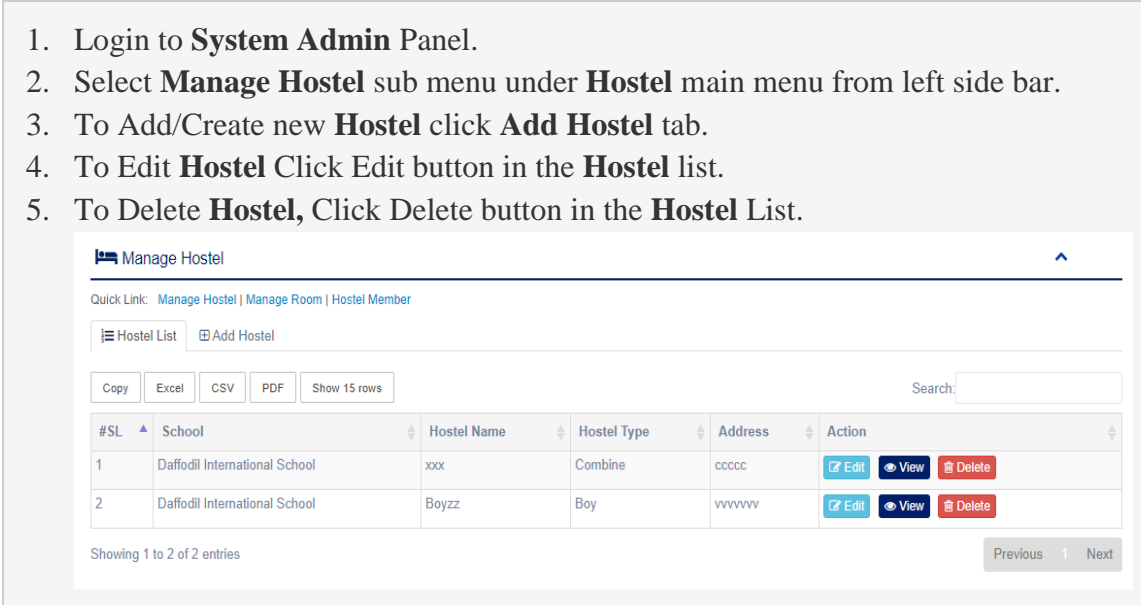
Figure 4.35: Transport member

4.1.29 Hostel

a. Manage Hostel

For Manage Hostel please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **Manage Hostel** sub menu under **Hostel** main menu from left side bar.
3. To Add/Create new **Hostel** click **Add Hostel** tab.
4. To Edit **Hostel** Click Edit button in the **Hostel** list.
5. To Delete **Hostel**, Click Delete button in the **Hostel** List.



The screenshot shows the 'Manage Hostel' interface. At the top, there is a header 'Manage Hostel' and a breadcrumb trail: 'Quick Link: Manage Hostel | Manage Room | Hostel Member'. Below this, there are tabs for 'Hostel List' and 'Add Hostel'. A search bar is present on the right. Below the search bar are buttons for 'Copy', 'Excel', 'CSV', 'PDF', and 'Show 15 rows'. The main content is a table with the following data:

#SL	School	Hostel Name	Hostel Type	Address	Action
1	Daffodil International School	xxx	Combine	cccc	Edit View Delete
2	Daffodil International School	Boyyz	Boy	wwwww	Edit View Delete

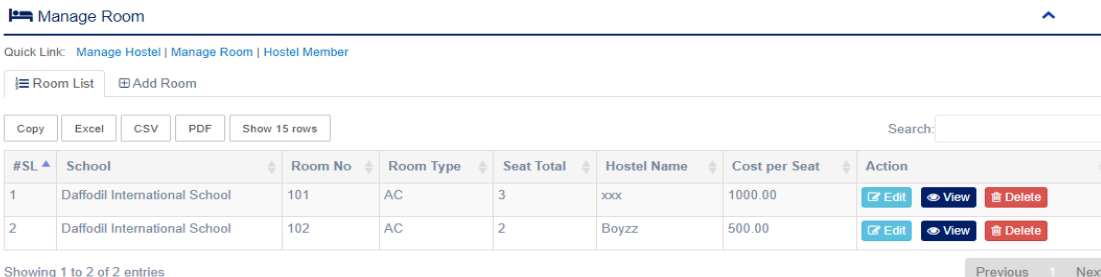
At the bottom of the table, it says 'Showing 1 to 2 of 2 entries' and there are 'Previous' and 'Next' navigation buttons.

Figure 4.36: Hostel Type

b. Manage Room

For Manage Room please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **Manage Room** sub menu under **Transport** main menu from left side bar.
3. To Add/Create new **Room** click **Add Room** tab.
4. To Edit **Room** Click Edit button in the **Room** list.
5. To Delete **Room** Click Delete button in the **Room** List.



The screenshot shows the 'Manage Room' interface. At the top, there is a header 'Manage Room' and a breadcrumb trail: 'Quick Link: Manage Hostel | Manage Room | Hostel Member'. Below this, there are tabs for 'Room List' and 'Add Room'. A search bar is present on the right. Below the search bar are buttons for 'Copy', 'Excel', 'CSV', 'PDF', and 'Show 15 rows'. The main content is a table with the following data:

#SL	School	Room No	Room Type	Seat Total	Hostel Name	Cost per Seat	Action
1	Daffodil International School	101	AC	3	xxx	1000.00	Edit View Delete
2	Daffodil International School	102	AC	2	Boyyz	500.00	Edit View Delete

At the bottom of the table, it says 'Showing 1 to 2 of 2 entries' and there are 'Previous' and 'Next' navigation buttons.

Figure 4.37: Room

c. Hostel Member

For Manage Hostel Member please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **Hostel Member** sub menu under **Hostel** main menu from left side bar.
3. To Add New **Hostel Member**, click **Non Member List** tab.
4. Then click **Add Hostel** button to get add **Hostel Member**.
5. To Delete **Hostel Member**, click delete button from **Member List** tab.



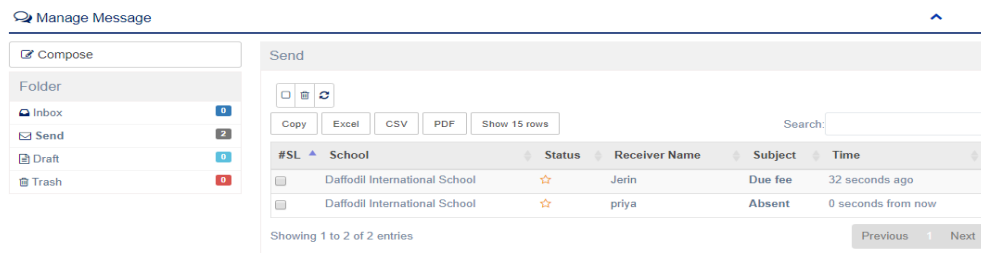
The screenshot shows the 'Manage Hostel Member' interface. It includes a navigation bar with 'Member List' and 'Non Member List' tabs. Below the tabs are buttons for 'Copy', 'Excel', 'CSV', 'PDF', and 'Show 15 rows'. A search bar is also present. The main content is a table with the following data:

#SL	School	Photo	Name	Class	Section	Roll No	Hostel Name	Room No	Action
1	Daffodil International School		omnor	Grade 1	B	7687	Boyyz	102 [AC]	Delete
2	Daffodil International School		Shuvo	Grade 2	A	344	xxx	101 [AC]	Delete
3	Daffodil International School		Jannati	Grade 5	A	979	xxx	101 [AC]	Delete

Figure 4.38: Members of hostel.

4.1.30 Message

1. Login to **System Admin** Panel.
2. Select **Message** main menu from left side bar & Click **Compose** button to write new message.
3. Click **Inbox** button to see incoming message & Click **Send** button to see outgoing message.
4. Click **Draft** button to see Drafts message & Click **Trash** button to see Trashed message.



The screenshot shows the 'Manage Message' interface. It includes a navigation bar with 'Compose' and 'Send' buttons. Below the navigation bar are buttons for 'Copy', 'Excel', 'CSV', 'PDF', and 'Show 15 rows'. A search bar is also present. The main content is a table with the following data:



#SL	School	Status	Receiver Name	Subject	Time
	Daffodil International School		Jerin	Due fee	32 seconds ago
	Daffodil International School		priya	Absent	0 seconds from now

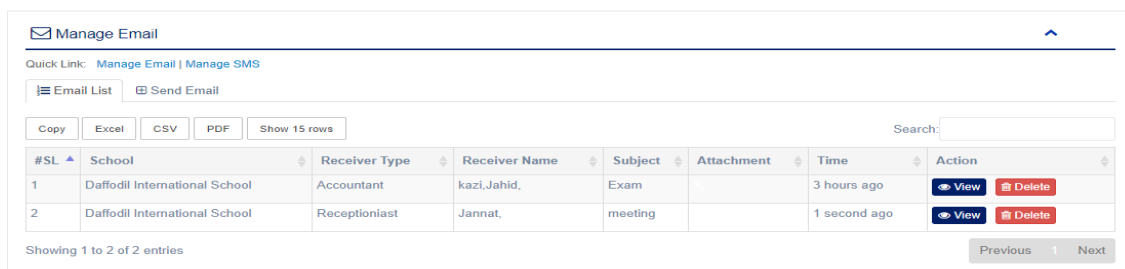
Figure 4.39: Message

4.1.31 Mail & SMS

a. Manage General Email

For Manage Email please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **Email** sub menu under **Mail & SMS** main menu from left side bar.
3. To send new **Email** Click **Send Email** tab.
4. To View **Email** Click View button in the **Email** list.
5. To Delete **Email** Click Delete button in the **Email** List.



The screenshot shows the 'Manage Email' interface. It includes a 'Quick Link' section with 'Manage Email' and 'Manage SMS'. Below this are tabs for 'Email List' and 'Send Email'. There are buttons for 'Copy', 'Excel', 'CSV', 'PDF', and 'Show 15 rows'. A search bar is present. The main table has columns: #SL, School, Receiver Type, Receiver Name, Subject, Attachment, Time, and Action. Two entries are shown:

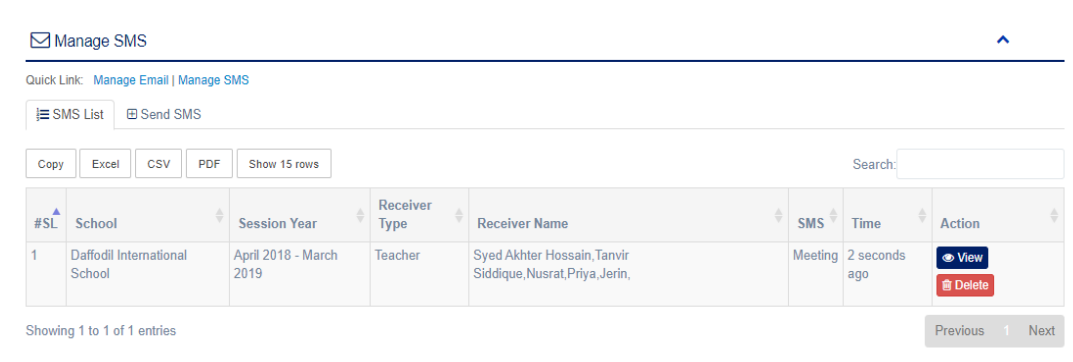
#SL	School	Receiver Type	Receiver Name	Subject	Attachment	Time	Action
1	Daffodil International School	Accountant	kazi,Jahid,	Exam		3 hours ago	View Delete
2	Daffodil International School	Receptioniast	Jannat,	meeting		1 second ago	View Delete

Showing 1 to 2 of 2 entries. Navigation: Previous 1 Next

Figure 4.40: Email

b. Manage General SMS

1. Login to **System Admin** Panel.
2. Select **SMS** sub menu under **Mail & SMS** main menu from left side bar.
3. To send new **SMS** click **Send SMS** tab.
4. To Delete **SMS**, Click Delete button in the **SMS** List.
5. You are done with **Manage SMS** feature.



The screenshot shows the 'Manage SMS' interface. It includes a 'Quick Link' section with 'Manage Email' and 'Manage SMS'. Below this are tabs for 'SMS List' and 'Send SMS'. There are buttons for 'Copy', 'Excel', 'CSV', 'PDF', and 'Show 15 rows'. A search bar is present. The main table has columns: #SL, School, Session Year, Receiver Type, Receiver Name, SMS, Time, and Action. One entry is shown:

#SL	School	Session Year	Receiver Type	Receiver Name	SMS	Time	Action
1	Daffodil International School	April 2018 - March 2019	Teacher	Syed Akhter Hossain,Tanvir Siddique,Nusrat,Priya,Jerin,	Meeting	2 seconds ago	View Delete

Showing 1 to 1 of 1 entries. Navigation: Previous 1 Next

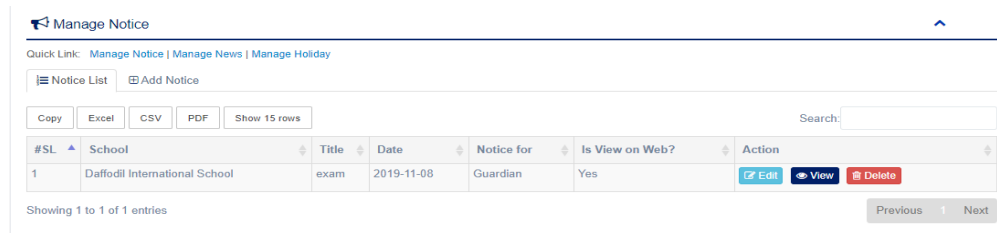
Figure 4.41: SMS

4.1.32 Announcement

Manage Notice

For Manage Notice please follow the next steps:

1. Login to **System Admin** Panel.
2. Select **Notice** sub menu under **Announcement** main menu from left side bar.
3. To Add/Create new **Notice** click **Add Notice** tab.
4. To View **Notice** Click View button in the **Notice** list.
5. To Edit **Notice** Click Edit button in the **Notice** list.
6. To Delete **Notice** Click Delete button in the **Notice** List.



The screenshot shows the 'Manage Notice' interface. At the top, there are navigation links: 'Manage Notice | Manage News | Manage Holiday'. Below this, there are tabs for 'Notice List' and 'Add Notice'. A search bar is present on the right. Below the search bar, there are buttons for 'Copy', 'Excel', 'CSV', 'PDF', and 'Show 15 rows'. The main table has the following columns: '#SL', 'School', 'Title', 'Date', 'Notice for', 'Is View on Web?', and 'Action'. There is one row of data:

#SL	School	Title	Date	Notice for	Is View on Web?	Action
1	Daffodil International School	exam	2019-11-08	Guardian	Yes	Edit View Delete

At the bottom, it says 'Showing 1 to 1 of 1 entries' and has 'Previous' and 'Next' navigation buttons.

Figure 4.42: Notice

4.1.33 Payroll

Manage Salary Grade

1. Login to **System Admin** Panel.
2. Select **Salary Grade** sub menu under **Payroll** main menu from left side bar.
3. To Add/Create new **Salary Grade** click Add Salary Grade tab.
4. To Edit **Salary Grade** Click Edit button in the **Salary Grade** list.
5. To Delete **Salary Grade** Click Delete button in the **Salary Grade** List.
6. You are done with **Manage Salary Grade** feature.



The screenshot shows the 'Manage Salary Grade' interface. At the top, there are navigation links: 'Salary Grade | Payroll Payment | Payroll History'. Below this, there are tabs for 'Salary Grade List' and 'Add Salary Grade'. A search bar is present on the right. Below the search bar, there are buttons for 'Copy', 'Excel', 'CSV', 'PDF', and 'Show 15 rows'. The main table has the following columns: '#SL', 'School', 'Grade Name', 'Basic Salary', 'Hourly Rate', 'Gross Salary', 'Net Salary', and 'Action'. There are two rows of data:

#SL	School	Grade Name	Basic Salary	Hourly Rate	Gross Salary	Net Salary	Action
1	Daffodil International School	Grade A	30000.00	10.00	30000.00	30000.00	Edit View Delete
2	Daffodil International School	B	20000.00	9.00	20000.00	20000.00	Edit View Delete

At the bottom, it says 'Showing 1 to 2 of 2 entries' and has 'Previous' and 'Next' navigation buttons.

Figure 4.43: Salary Grade

4.2 Back-end Design

The best part of a software happened in the back-end. It is the most crucial part of a software. The whole system depends on it. Usually back-end refers server side. In back-end there are many factor consists like the scripting languages or the server side language, automated framework, database management, security, authentication, authorization, data parsing, data validating, data backups and so on. I developed “School Management System” using codeigniter PHP framework, HTML, CSS which is a server side framework, in here all the logical thing and the hosting site provide us the MySQL database for saving the data information and the work flow of the software. In hosting we got a neat cPanel which has the all the access panel organized.

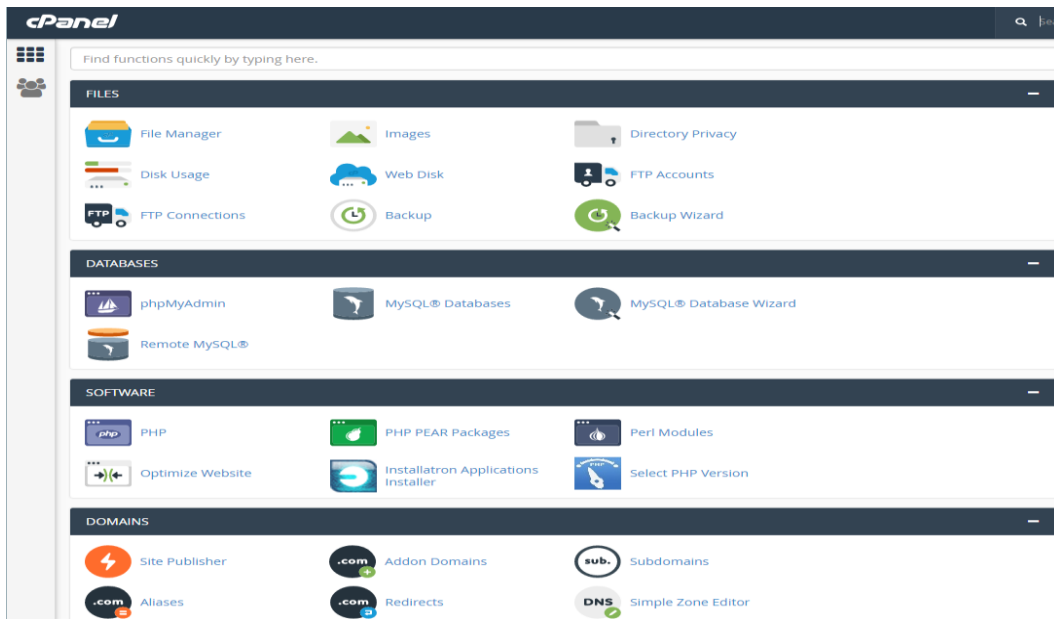


Figure 4.45: Cpanel

In the File Manager section all the written code files and the files comes with the PHP framework exists and the files of user will upload those also be uploaded in here

The system of relational database based on PHP conventional Database.

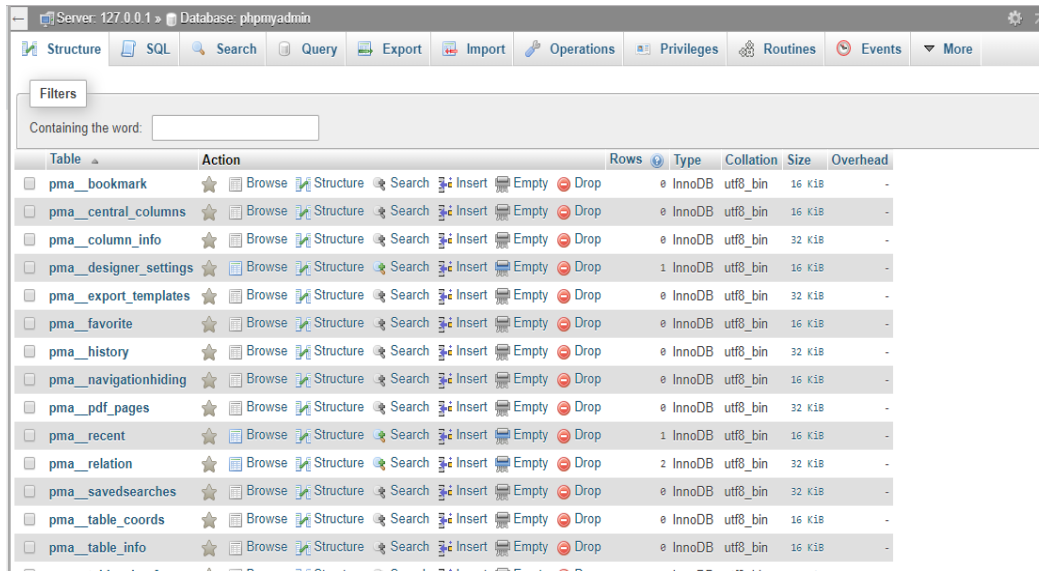


Figure 4.46: Database tables in phpMyadmin

4.3 Interaction Design and UX

I designed this web software using php framework. That help me to design a better visual for the users and it is also responsive in many formats. “The process of enhancing user satisfaction with a product by improving the usability, accessibility, and pleasure provided in the interaction with the product. Designers focus on creating engaging web interfaces with logical and thought out behaviors and actions. Successful interactive design uses technology and principles of good communication to create desired user experiences”

4.4 Implementation of Requirements

- The design needed to implement in web programming language PHP MVC framework.
- Preferred Database is MySQL.
- Hosting platform have to Linux based server.
- Schedule wise backup from server (Both source code and Database).
- Failed log in needed to store in database.
- SQL injection needed to protect with string escaping.
- Form validation needed using java-script before server site validation.
- CROS-SITE-SCRIPTING needed to verify.
- Unauthorized attach needed to prevent with maximum attach limit.
- Invalid data input should display error message.
- For specific design jquery needed to be implemented.
- In front end design bootstrap framework is needed.

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database

After login Super Admin have to do following things

1. General/Diu Setting from Left Menu->Administrator->General Setting
2. Create School from Left Menu->Administrator->Manage University
3. Set user Role/Type wise access permission from Left Menu->Administrator->Role Permission(ACL) -> Role Permission Setting
4. Create Designation from Left Menu->Human Resource->Designation
5. Create Salary Grade from Left Menu->Payroll->Salary Grade
6. Create Employee with Role Admin for the Specific University from Left Menu->Human Resource->Employee
7. After create employee with admin role then set Role Permission for the Admin of the specific University
8. Then University Admin can do everything for his/her University

Step by Step Data Input Process: -

For smooth use of the software please follow the following data input process. These process will make your software organized to data manipulation. You must follow these data input sequence.

1. Login to System using default super admin user credentials: Email: superadmin
Password: 123456
2. Set your Brand General/Global Setting from Left **Menu->Administrator->General Setting**
3. Create **University** as per your need/requirements. **Left Menu->Administrator->Manage University**
4. Create **Academic Year** as per your University requirements. **Left Menu->Administrator->Academic Year**
5. Manage/Create **SMS Setting** data for sending SMS. **Left Menu->Administrator->SMS Setting {For Super Admin}**
6. Manage/Create **SMS Setting** data for sending SMS. **Left Menu->Setting->SMS Setting {Except Super Admin}**

7. Manage/Create **Payment Setting** data for manage online payment. **Left Menu->Administrator->Payment Setting {For Super Admin}**
8. Manage/Create **SMS Setting** data for manage online payment. **Left Menu->Setting->Payment Setting {Except Super Admin}**
9. Create/Input **Designation** data for Manage Employee. **Left Menu->Human Resource->Designation**
10. Create/Input **Salary Grade** data for Manage Payroll/Employee. **Left Menu->Payroll->Salary Grade**
11. Create/Input **Employees** data as per your University requirements and for create University admin. **Left Menu->Human Resources->Employees**
12. Update each User Type **Role Permission** as per your University requirements. **Left Menu->Administrator->Role Permission->Role Permission Setting**
13. Create/Input **Teachers** data as per your University requirements. **Left Menu->Teacher**
14. Create/Input **Class** data as per your University requirements. **Left Menu->Class**
15. Create/Input **Section** data as per your Class & University requirements. **Left Menu->Section->Class**
16. Create/Input **Subject** data as per your Class & University requirements. **Left Menu->Subject->Class**
17. Create/Input **Syllabus** data as per your Class & University requirements. **Left Menu->Syllabus->Class**
18. Create/Input **Class Routine** data as per your Class & University requirements. **Left Menu->Class Routine->Class**
19. Create/Input **Discount** data as per your University requirements. **Left Menu->Accounting->Discount**
20. Create/Input **Guardian** data before input Student data. **Left Menu->Guardian**
21. Create/Input **Student** data. **Left Menu->Student->Student Class**
22. Manage **Student/Teacher/Employee Attendance**. **Left Menu->Attendance->Student Attendance/ Teacher Attendance/ Employee Attendance**
23. Create/Input **Assignment** data for student. **Left Menu->Assignment {Class Wise}**
24. Create/Input **Exam Grade** data as per University requirements. **Left Menu->Exam->Exam Grade**
25. Create/Input **Exam Term** data as per University requirements. **Left Menu->Exam->Exam Term**
26. Create/Input **Exam Schedule** data. **Left Menu->Exam Schedule->Class**
27. Create/Input **Exam Suggestion** data. **Left Menu->Exam Suggestion->Class**
28. Create/Input **Exam Attendance** data. **Left Menu->Exam Attendance**
29. Manage **Exam Mark** data. **Left Menu->Exam Mark->Manage Mark**
30. Manage **Exam Term Result** data. **Left Menu->Exam Mark->Exam Term Result**
31. Manage **Exam Final Result** data. **Left Menu->Exam Mark->Exam Final Result**

32. Manage **Exam Merit List** data. **Left Menu->Exam Mark->Exam Merit List**
33. Manage **Exam Mark Sheet** data. **Left Menu->Exam Mark->Student Mark Sheet**
34. Manage **Student Result Card** data. **Left Menu->Exam Mark->Student Result Card**
35. Process **Student Promotion** to the next class after process all above data. **Left Menu->Promotion**
36. Create/Input **Certificate Type** data. **Left Menu->Certificate->Certificate Type**
37. Generate **Certificate** for a student. **Left Menu->Generate Certificate** Then filter and Generate a Certificate and print
38. Create/Input/Process **Salary Payment** data for Employee/Teacher. **Left Menu->Payroll->Salary Payment** Then filter employee/teacher and put payment
39. Create/Input **Fee Type** data for Manage class wise Student Fee. **Left Menu->Accounting->Fee Type**
40. Create/Input **Fee Type** data for Manage class wise Student Fee. **Left Menu->Accounting->Fee Type**
41. Create/Input data for collect student fee. **Left Menu->Accounting->Fee Collection [Admission Fee/ Monthly Tution Fee/ Hostel Fee/ Transport Fee etc]**
42. Create/Input **Expenditure Head** data for Manage Expenditure. **Left Menu->Accounting->Expenditure Head/Expenditure**
43. Create/Input **Invoice** data for manage/collect all kinds of Payment from student. **Left Menu->Accounting->Create Invoice**
44. After Create/Input **Employee/ Teacher/ Guardian & Student** data please activate them to login. **Left Menu->Administrator->Manage User, Then filter User and activate them**
45. For Manage Frontend Website Basic Info. **Please fill out all data in University information Left Menu->Administrator->manage University {For super admin}**
46. For Manage Frontend Website Basic Info. **Please fill out all data in University Information Left Menu->Administrator->manage University {Except super admin}**
47. For Manage Frontend Slider data. **Please input/manage Slider Left Menu->Frontend->Manage Slider**
48. For Manage Frontend Welcome/About data. **Please update Left Menu->Frontend->Frontend About**
49. For Manage Frontend Events data. **Please manage events Left Menu->Events**
50. For Manage Frontend News data. **Please manage news Left Menu->Announcement ->Manage News**
51. For Manage Frontend Notice data. **Please manage Notice Left Menu->Announcement ->Manage Notice**

52. For Manage Frontend Holiday data. **Please manage Holiday Left Menu-> Announcement ->Manage Holiday**
53. For Manage Frontend Gallery data. **Please manage Gallery Left Menu-> Media Gallery ->Manage Gallery and Image**
54. You are done with main feature.

5.2 Implementation of Front-end Design

It's very difficult to make a simple UI design for the users, I try make as simple as possible. Nowadays, there are many devices like smart mobile, tablets, desktop, 4k desktop etc. I make my website responsive so that user can visit from different devices with a marginable scale of the website and easily interact. We make interface relative and standard with the help of HTML, CSS, JavaScript and JQuery technologies.

There are some factors of implementing the front-end design are given below

- There will be Five types of users like Admin, Teacher, Staff, Guardian and Student
- Every types of user must be registered by filling up the required information fields.
- User can login using their registered email and password.
- User can reset password by filling up the form of forget password.
- For updating user profile, user must enter the password for the security purpose.

5.3 Implementation of Interactions

Here to make This system (School Management System) I've implemented responsive UI for better user experience. In the cases make things easy i use icon, text link and button. The system design of our web software is user friendly. Everyone Admin, Staff, Guardian, teachers and students will need to create profile for the access.

5.4 Testing Implementation

Testing implementation is process of testing upcoming implementation of a system, where tester or system architect will see cases and specification, is it implementable or have limitations.

Table 5.1: Test case evaluation

Test Case	Test Input	Expected outcome	Obtained outcome	Pass / fail	Tested on
1. Login	Login via various devices such as tablet, pc ,cell phones	Successfully login	Successfully login	Pass	2-11-19
2. Registration	Empty first name, last name, password	Show restriction to Fill all the fields	Fields must be filled by data	Pass	2-11-19
3. Password	Incorrect password or empty field	Warn the incorrect password or field is empty	Show warning	Pass	2-11-19
4. Profile settings	View profile, Update profile	Show and update profile information	Show and update information successfully	Pass	2-11-19
5. Course enroll	Input password	Enrolled under course	Course enrolled successfully	Pass	2-11-19
6. Submit assignment	Input file	Added file into assignment	File added successfully	Pass	2-11-19
7. Ask question & give answers	Fill form of ask question, click button for give answers	show asked questions and show answers	Viewed in the respective assignments questions and answers	Pass	2-11-19
8. Marks	Give marks to	Show the given	Viewed in the	Pass	2-11-19

	the students between 1-10	marks	respective assignments		
9. Marks Evaluation	All marks of students of the respective assignments	Show the individual students calculated marks	Calculated average marks and single mark viewed	Pass	2-11-19
10. Create post	Input course title	Course has been created	Course created successfully	Pass	2-11-19
11. Logout	Click logout button	Logout from the account	Logged out successfully	Pass	2-11-19

5.5 Test Results and Reports

Test report is very important and it is needed to know that the system is ready/ not ready for implementation? It is a document that records data obtained from an evaluation experiment. We need to run through many types of testing. There are many types of testing:

- Functionality, Regression&Security
- Performance &Scalability
- Usability&System interoperability
- Localization&Disaster recovery
- Installation/ upgrade.

If the system passes through all these types of testing it is finally ready to launch

So at the end I can carry out the results as the benefits of usability testing.

- Good Quality of application.
- System is easier to use.
- Application is more readily accepted by users.
- Easy to use for the new users.
- Better UI for interaction.

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Discussion and Conclusion

- Capable of storing school resources.
- Easily to track the students & course relation they have taken.
- System can use local & Server also where other school can connect to Server.
- Relationship between student & Guardian.

6.2 Scope for Further Developments

- System features will be upgraded day by day for its better use.
- System will implement new UI if needed for good looks.
- AI Integration.
- Android application.
- Entire system more interactive & provide statistics data.
- Will implement notification system.

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APPENDIX

Project Reflection:

From Fall-2018 semester i had started the journey to make a system, where admin, staff, teachers, Guardians and students can communicate easily from anywhere and it will save valuable times as well. I followed the model to implement and monitor our system, with the all hard work and spending a lot of time finally i was able to reach my goal at last.

The project “School Management System” will be very helpful for all of us to communicate. The students will be more active about their study and going to improve their critical level of thinking. Students will learn things with almost proper knowing. Guardians can view their child’s activity. You can add multiple school via this system.

So I believe that our “School Management System” will be a positive and effective thing for everyone. And I will be continuously upgrading my system for user friendly.

PLAGIARISM

The screenshot shows a web browser window with the URL <https://www.plagamme.com/my/files>. The page features a dark blue sidebar with the 'plagamme' logo and navigation options: Upload, Papers, Payments, Free, and Earn money. Below these are 'RATE US' (5 stars) and 'CONTACT US' (chat icon). The main content area displays the results for a file named 'Peer Learning Tool.docx' uploaded 2 minutes ago. A donut chart shows a 11% similarity score. Below the chart, three categories are listed: Paraphrase (0%), Improper Citations (0), and Matches (14). A risk level of 'HIGH PLAGIARISM RISK' is indicated by three stars. A pink button at the bottom says 'View detailed report'.

Category	Value
Paraphrase	0%
Improper Citations	0
Matches	14

