



PAF- KARACHI INSTITUTE OF ECONOMICS & TECHNOLOGY
College of Engineering

(Software Engineering)

SE3301 – Software Design and Architecture

Software Design Specification for School Management System

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1. Introduction

Provide an overview of the entire document:

- **Purpose**

It contains specific information about the expected input, output, classes, and functions. The interaction between the classes to meet the desired requirements are outlined in detailed figures at the end of the document.

The **Online School Management System** (OSMS) and describes the design decisions, architectural design and the detailed design needed to implement the system. It provides the visibility in the design and provides information needed for software support.

- **Scope**

This SDS document is to be used for software quality engineering and software engineering as a definition of design to be used to implement the (**OSMS**)

- **Intended Audience:**

The SDS is intended for the developers, project managers etc.

- Identify the system/product using any applicable names and/or version numbers.

- **References**

Software Engineering' by K.K. Aggarwal & Yogesh Singh, New Age Publishing House, 2nd Ed.

IEEE Recommended Practice for Software Requirements Specifications – IEEE Std 830-1998.

IEEE Standard for Software Test Documentation – IEEE Std. 829-1998.

- **Important Terms**

Abbreviation	Full Form
OSMS	Online Student Management System
PUMS	Project Unit Management System

- **Summary**

This document provide all information about the design requirement

Note:

For the remaining sections of this document, it is conceivable (and perhaps even desirable) that one or more of the section topics are discussed in a separate design document within the project. For each section where such a document exists, a reference to the appropriate design document is all that is necessary. All such external (or fragmented) design documents should probably be provided with this document at any design reviews.

2. Design Considerations

This section describes many of the issues which need to be addressed or resolved before attempting to devise a complete design solution.

2.1. Assumptions and Dependencies

The system assumes that the users have adequate skills and knowledge about the computer and software use. There must be at least one operator per time required to use the functionalities of the software.

The system is dependent on Microsoft.Net Framework , JavaScript engine and MySQL Server.

2.2. General Constraints

Describe any global limitations or constraints that have a significant impact on the design of the system's software (and describe the associated impact). Such constraints may be imposed by any of the following (the list is not exhaustive):

Hardware Environment:

The operator is required a system or PC which has a operating system Microsoft Windows 7 or greater, with at least the Microsoft .NET framework 4.5 installed. The database shall be stored on windows, Linux or UNIX server using apache and MySQL and all computer shall need to be networked together so that all can have access to the database.

Software Environment

Software used	Description
Operating system	We have chosen Windows operating system for its best support and user-friendliness.
Database	To save the Student records, Employee records we have chosen MySQL database.
Asp.Net	To implement the project, we have chosen Asp.Net language for its more interactive support.

2.3. Goals and Guidelines

Describe any goals, guidelines, principles, or priorities which dominate or embody the design of the system's software. Such goals might be:

Portability

Server can be installed on a variety of machines and operating systems and functions in a variety of networking environments.

Performance goals

- a. Client should be customized for interactive display-intensive tasks
- b. Server should provide CPU-intensive operations

Scalability

Server has spare capacity to handle larger number of clients

Flexibility

Should be usable for a variety of user interfaces

Reliability

System should survive individual node and/or communication link problems

- The KISS principle ("Keep it simple stupid!")
- Emphasis on speed versus memory use
- working, looking, or "feeling" like an existing product

For each such goal or guideline, unless it is implicitly obvious, describe the reason for its desirability. Feel free to state and describe each goal in its own subsubsection if you wish.

2.4. Development Methods

Our development methodology comprises of 3-Tier Architecture which is a type of software architecture which is composed on three layers. They are mainly used in application as a specific type of client server.

Presentation Layer:

The presentation layer is front end layer in three tier system and consist of user interface. This user interface is often a graphical one accessible through a web-based app to display the content.

Application Layer:

The application layer contains the functional business logics with drives an applications core capabilities. Its often written in C#. Python, Java, C++ etc.

Data Layer:

The data layer comprises of the databases / data storage system and data access layer using database query languages. Data is accessed by the application layer via API calls.

Briefly describe the method or approach used for this software design. If one or more formal/published methods were adopted or adapted, then include a reference to a more detailed description of these methods. If several methods were seriously considered, then each such method should be mentioned, along with a brief explanation of why all or part of it was used or not used.

3. Architectural Strategies

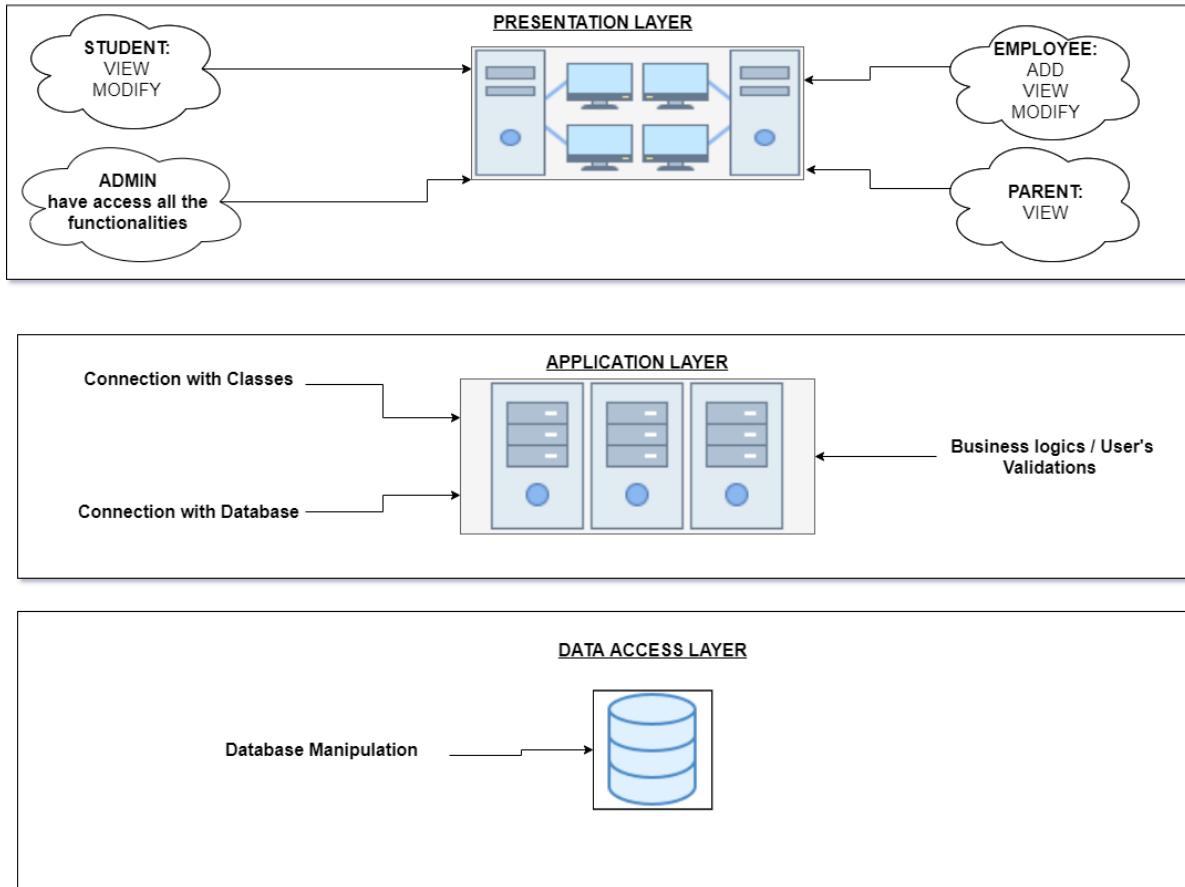
Describe any design decisions and/or strategies that affect the overall organization of the system and its higher-level structures. These strategies should provide insight into the key

abstractions and mechanisms used in the system architecture. Describe the reasoning employed for each decision and/or strategy (possibly referring to previously stated design goals and principles) and how any design goals or priorities were balanced or traded-off. Such decisions might concern (but are not limited to) things like the following:

- Use of a particular type of product (programming language, database, library, etc. ...)
- Reuse of existing software components to implement various parts/features of the system
- Future plans for extending or enhancing the software
- User interface paradigms (or system input and output models)
- Hardware and/or software interface paradigms
- Error detection and recovery
- Memory management policies
- External databases and/or data storage management and persistence
- Distributed data or control over a network
- Generalized approaches to control
- Concurrency and synchronization
- Communication mechanisms
- Management of other resources

Each significant strategy employed should probably be discussed in its own subsection, or (if it is complex enough) in a separate design document (with an appropriate reference here of course). Make sure that when describing a design decision that you also discuss any other significant alternatives that were considered, and your reasons for rejecting them (as well as your reasons for accepting the alternative you finally chose). Sometimes it may be most effective to employ the "pattern format" for describing a strategy.

4. System Architecture



This section should provide a high-level overview of how the functionality and responsibilities of the system were partitioned and then assigned to subsystems or components. Don't go into too much detail about the individual components themselves (there is a subsequent section for detailed component descriptions). The main purpose here is to gain a general understanding of how and why the system was decomposed, and how the individual parts work together to provide the desired functionality.

At the top-most level, describe the major responsibilities that the software must undertake and the various roles that the system (or portions of the system) must play. Describe how the system was broken down into its components/subsystems (identifying each top-level component/subsystem and the roles/responsibilities assigned to it). Describe how the higher-level components collaborate with each other in order to achieve the required results. Don't forget to provide some sort of rationale for choosing this particular decomposition of the system (perhaps discussing other proposed decompositions and why they were rejected). Feel free to make use of design patterns, either in describing parts of the architecture (in pattern format), or for referring to elements of the architecture that employ them.

If there are any diagrams, models, flowcharts, documented scenarios or use-cases of the system behavior and/or structure, they may be included here (unless you feel they are complex enough to merit being placed in the Detailed System Design section). Diagrams that

describe a particular component or subsystem should be included within the particular subsection that describes that component or subsystem.

5. Detailed System Design

Most components described in the System Architecture section will require a more detailed discussion. Other lower-level components and subcomponents may need to be described as well. Each subsection of this section will refer to or contain a detailed description of a system software component. The discussion provided should cover the following software component attributes:

5.1. Admin

Kind of component : class

The kind of component, such as a subsystem, module, class, package, function, file, etc.

5.2. Definition

The purpose of this component is to monitor the other sub-classes and provide functionalities to the other classes accordingly.

The specific purpose and semantic meaning of the component. This may need to refer back to the requirements specification.

5.3. Responsibilities

Admin can use following product functions

- Update / Delete any information about students
- Update / Delete any information about staff.
- View student overall progress and take action accordingly
- Create events (exhibition etc.)
- Add / Update classes.
- Add / Update Parent

The primary responsibilities and/or behavior of this component. What does this component accomplish? What roles does it play? What kinds of services does it provide to its clients? For some components, this may need to refer back to the requirements specification.

5.4. Constraints

The delete operation is only available to the available administrator. To reduce the complexity of the system there is no check on this operation. Hence administrator should be very careful before deletion of any record and he/she will be responsible for data inconsistency.

Any relevant assumptions, limitations, or constraints for this component. This should include constraints on timing, storage, or component state, and might include rules for interacting with this component (encompassing preconditions, postconditions, invariants, other constraints on input or output values and local or global values, data formats and data access, synchronization, exceptions, etc.)

5.5. Composition

This component have following subcomponents.

- Setup classes , subjects.
- Manage Users

Each of this subcomponents have sub function to perform their actions.

A description of the use and meaning of the subcomponents that are a part of this component.

5.6. Uses/Interactions

This component collaborate with all the other classes i.e. Student, Teacher, Employee etc. This component is not used by any other component. The side effect that this entity might have on the other components/entity is that in order to change any detail in the records the other entity of this system required to get permission from the admin.

A description of this components collaborations with other components. What other components is this entity used by? What other components does this entity use (this would include any side-effects this entity might have on other parts of the system)? This concerns the method of interaction as well as the interaction itself. Object-oriented designs should include a description of any known or anticipated subclasses, superclasses.

5.7. Resources

This component would require the database and a connection with the database.

Asp.Net will also be used for the interaction of the webpage with the database through C# which is the most important aspect for this.

A description of any and all resources that are managed, affected, or needed by this entity. Resources are entities external to the design such as memory, processors, printers, databases, or a software library. This should include a discussion of any possible race conditions and/or deadlock situations, and how they might be resolved.

5.8. Employee

Kind of component : class

The kind of component, such as a subsystem, module, class, package, function, file, etc.

5.9. Definition

The purpose of this component is to interact with the system in order to perform basic functionalities of the system.

The specific purpose and semantic meaning of the component. This may need to refer back to the requirements specification.

5.10. Responsibilities

Employee can use following product functions

- Manage the result and performance of Students.
- Maintain Academic Information about Student.
- Mark Attendance of student
- Modify or Add his/her personal information

The primary responsibilities and/or behavior of this component. What does this component accomplish? What roles does it play? What kinds of services does it provide to its clients? For some components, this may need to refer back to the requirements specification.

5.11. Constraints

This component has a limitation that this cannot delete any record. It can modify the existing record but cannot delete it. The component depends on the sub-modules and in order to apply changes into the records, log into the system is required.

Any relevant assumptions, limitations, or constraints for this component. This should include constraints on timing, storage, or component state, and might include rules for interacting with this component (encompassing preconditions, postconditions, invariants, other constraints on input or output values and local or global values, data formats and data access, synchronization, exceptions, etc.)

5.12. Composition

The management of attendance , grading , users modules are all the subcomponents of this component.

A description of the use and meaning of the subcomponents that are a part of this component.

5.13. Uses/Interactions

This component collaborate with the classes **Student**. This component is used by **admin** component.

A description of this components collaborations with other components. What other components is this entity used by? What other components does this entity use (this would include any side-effects this entity might have on other parts of the system)? This concerns the method of interaction as well as the interaction itself. Object-oriented designs should include a description of any known or anticipated subclasses, superclasses.

5.14. Resources

This component would require the database and a connection with the database. Asp.Net will also be used for the interaction of the webpage with the database through C# which is the most important aspect for this.

A description of any and all resources that are managed, affected, or needed by this entity. Resources are entities external to the design such as memory, processors, printers, databases, or a software library. This should include a discussion of any possible race conditions and/or deadlock situations, and how they might be resolved.

5.15. Student

Kind of component : class

The kind of component, such as a subsystem, module, class, package, function, file, etc.

5.16. Definition

The purpose of this component is to interact with the system in order to view its record stored in the system.

The specific purpose and semantic meaning of the component. This may need to refer back to the requirements specification.

5.17. Responsibilities

Student will be able to use the following functionalities of the system

- Can view the overall progress
- Modify or Add his/her personal information.
- Check attendance of respective subjects.
- View Exams results
- View Class Schedule

The primary responsibilities and/or behavior of this component. What does this component accomplish? What roles does it play? What kinds of services does it provide to its clients? For some components, this may need to refer back to the requirements specification.

5.18. Constraints

This component has a limitation that this cannot delete or modify or add any record. It can view the existing record. The component depends on the sub-modules and in order to apply changes into the records, log into the system is required.

Any relevant assumptions, limitations, or constraints for this component. This should include constraints on timing, storage, or component state, and might include rules for interacting with this component (encompassing preconditions,

postconditions, invariants, other constraints on input or output values and local or global values, data formats and data access, synchronization, exceptions, etc.)

5.19. Composition

This component has subcomponent of attendance , grading etc.

A description of the use and meaning of the subcomponents that are a part of this component.

5.20. Uses/Interactions

This component collaborate with the classes **Grading** , **Subjects** , **Classes** , **Teacher** and itself . This component is used by **admin** , **employee** component.

A description of this components collaborations with other components. What other components is this entity used by? What other components does this entity use (this would include any side-effects this entity might have on other parts of the system)? This concerns the method of interaction as well as the interaction itself. Object-oriented designs should include a description of any known or anticipated subclasses, superclasses.

5.21. Resources

This component would require the database and a connection with the database. Asp.Net will also be used for the interaction of the webpage with the database through C# which is the most important aspect for this.

A description of any and all resources that are managed, affected, or needed by this entity. Resources are entities external to the design such as memory, processors, printers, databases, or a software library. This should include a discussion of any possible race conditions and/or deadlock situations, and how they might be resolved.

5.22. Parent

Kind of component : class

The kind of component, such as a subsystem, module, class, package, function, file, etc.

5.23. Definition

The purpose of this component is to interact with the system in order to view the record of student stored in the system.

The specific purpose and semantic meaning of the component. This may need to refer back to the requirements specification.

5.24. Responsibilities

Parent can use following product functions

- View Child academic progress (Marks etc.).
- View Child attendance in respective subjects.
- Modify or Add his/her personal information
- Can receive notifications/message about student information (results, attendance).

The primary responsibilities and/or behavior of this component. What does this component accomplish? What roles does it play? What kinds of services does it provide to its clients? For some components, this may need to refer back to the requirements specification.

5.25. Constraints

This component has a limitation that this cannot delete or modify or add any record. It can view the existing record. The component depends on the sub-modules and in order to apply changes into the records, log into the system is required.

Any relevant assumptions, limitations, or constraints for this component. This should include constraints on timing, storage, or component state, and might include rules for interacting with this component (encompassing preconditions, postconditions, invariants, other constraints on input or output values and local or global values, data formats and data access, synchronization, exceptions, etc.)

5.26. Composition

This component has subcomponent of attendance , grading etc.

A description of the use and meaning of the subcomponents that are a part of this component.

5.27. Uses/Interactions

This component collaborate with the classes **Student** and itself . This component is used by **admin , employee** component.

A description of this components collaborations with other components. What other components is this entity used by? What other components does this entity use (this would include any side-effects this entity might have on other parts of the system)? This concerns the method of interaction as well as the interaction itself. Object-oriented designs should include a description of any known or anticipated subclasses, superclasses.

5.28. Resources

This component would require the database and a connection with the database. Asp.Net will also be used for the interaction of the webpage with the database through C# which is the most important aspect for this.

A description of any and all resources that are managed, affected, or needed by this entity. Resources are entities external to the design such as memory, processors, printers, databases, or a software library. This should include a discussion of any possible race conditions and/or deadlock situations, and how they might be resolved.

6. Glossary

Linux	Lovable Intellect Not Using XP
Unix	Uniplexed Information and Computing System
OSMS	Online Student Management System
MySQL	My Structured Query Language
ASP	Active Server Page

An ordered list of defined terms and concepts used throughout the document.

 Dashboard Class Subject Employee Student Result Timetable Payments Attendance

Total Students

100



Total Parents

40



Total Staff

70



Classes

10



Leader Board

This is a success alert—check it out!

Quick Links

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Calendar

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April 2021

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27 28 29 30 31 1 2 3 4 5 6 7 8 9

10 11 12 13 14 15 16 17 18 19 20 21 22 23

24 25 26 27 28 29 30 1 2 3 4 5 6 7

 Dashboard Class Subject Employee Student Result Timetable Payments Attendance

Classes

[Add Class](#)

CLASS	SECTION	CLASS TEACHER	OPTION	
1	A	Body	Edit	View
1	B	Body	Edit	View
2	A	Body	Edit	View
2	B	Body	Edit	View
3	A	Body	Edit	View
3	B	Body	Edit	View
4	A	Body	Edit	View

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admin

Subjects

Add Subject

CLASS	SUBJECT NAME	SUBJECT TEACHER	OPTION
1	ENGLISH	Body	Edit View
1	MATHS	Body	Edit View
2	ENGLISH	Body	Edit View
2	MATHS	Body	Edit View
3	MATHS	Body	Edit View
3	SCIENCE	Body	Edit View
4	GRAMMAR	Body	Edit View

Dashboard

Class

Subject

Employee

Student

Result

Timetable

Payments

Attendance

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admin

Employees

Add Employee

ID	FIRST NAME	LAST NAME	MOBILE NO	GENDER	ROLE	OPTION
1	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
2	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
3	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
4	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
5	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
6	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
7	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>

Dashboard

Class

Subject

Employee

Student

Result

Timetable

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 Dashboard

Students

Add Student

 Class

ID	FIRST NAME	LAST NAME	MOBILE NO	GENDER	CLASS	OPTION
1	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
2	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
3	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
4	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
5	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
6	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
7	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>

 Student

 Result

 Timetable

 Payments

 Attendance

ST MARY'S LMS >>

admin

Dashboard Class Subject Employee Student Result Timetable Payments Attendance

Parents

Add Parents

ID	STUDENT NAME	FATHER NAME	FATHER NO	MOTHER NAME	MOTHER NO	OPTION
1	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
2	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
3	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
4	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
5	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
6	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
7	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>

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admin

Results

Add Results

ID	FIRST NAME	LAST NAME	CLASS	PERCENTAGE	GRADE	OPTION
1	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
2	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
3	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
4	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
5	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
6	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
7	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>

Dashboard

Class

Subject

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 Dashboard

Time Tables

Add Timetable

 Class

ID	CLASS	SECTION	OPTION	
1	A	Body	Edit	View
1	B	Body	Edit	View
2	A	Body	Edit	View
2	B	Body	Edit	View
3	A	Body	Edit	View
3	B	Body	Edit	View
4	A	Body	Edit	View

 Subject

 Employee

 Student

 Result

 Timetable

 Payments

 Attendance

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admin

Dashboard

Payments

Add Payments

Class

Subject

Employee

Student

Result

Timetable

Payments

Attendance

ID	FIRST NAME	LAST NAME	CLASS	AMOUNT	FEE STATUS	OPTION
1	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
2	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
3	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
4	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
5	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
6	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
7	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>

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 Dashboard

Attendance

Mark Attendance

 Class

ID	FIRST NAME	LAST NAME	CLASS	SECTION	ATTENDANCE	OPTION
1	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
2	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
3	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
4	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
5	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
6	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>
7	Body	Body	Body	Body	Body	<button>Edit</button> <button>View</button>

 Student

 Result

 Timetable

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 Attendance

 Dashboard

Exams

Add Subject

 Class

CLASS	SUBJECT NAME	EXAM TYPE	OPTION
1	ENGLISH	Body	<button>Edit</button> <button>View</button>
1	MATHS	Body	<button>Edit</button> <button>View</button>
2	ENGLISH	Body	<button>Edit</button> <button>View</button>
2	MATHS	Body	<button>Edit</button> <button>View</button>
3	MATHS	Body	<button>Edit</button> <button>View</button>
3	SCIENCE	Body	<button>Edit</button> <button>View</button>
4	GRAMMAR	Body	<button>Edit</button> <button>View</button>

 Subject

 Employee

 Student

 Result

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 Dashboard Class Subject Employee Student Result Timetable Payments Attendance

Classes / Add Class

Add Class

Class ID

System Generated Class ID

Class Section

Enter Class Section

Class Name

Enter Class Name

Add Section

Class Teacher Name

Assign Class Teacher Select ▾

Add Class

 Dashboard

 Class

 Subject

 Employee

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Classes / Edit Class

Edit Class

Class ID

Pick from the Select Value

Class Section

Edit Class Section

Class Name

Edit Class Name

Edit Section

Class Teacher Name

Assign Class Teacher Select

Edit Class

 Dashboard

 Class

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Classes / View Class

View Class

Class ID

Pick from the Select Value

Class Section

Class Section

Class Name

Class Name

Class Teacher Name

Class Teacher Name

 Dashboard Class Subject Employee Student Result Timetable Payments Attendance

Subject / Add Subject

Add Subject

Subject ID

System Generated Subject ID

Enter Subject Description

Enter Subject Description Optional

Subject Name

Enter Subject Name

Class Name

Assign Subject to Class Select ▾

Add Class

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Subject / Edit Subject

Edit Subject

Subject ID

Pick from the Select Value

Subject Description

Subject Description Optional

Subject Name

Edit Subject Name

Class Name

Reassign Subject to Class Select 

Edit Subject

 Dashboard

 Class

 Subject

 Employee

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Subject / View Subject

View Subject

Subject ID

Pick from the Select Value

Subject Description

Subject Description Optional

Subject Name

Subject Name

Class Name

Class Name

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Employee / Add Employee

Add Employee

Employee ID

System Generated Employee ID

Employee Email

Enter Email

Employee Telephone

Enter Telephone

Employee Status

Enter Status

Employee Fristname

Enter Fristname

Employee Password

Enter Password

Employee Mobile

Enter Mobile

Employee Gender

Select Gender

Employee Lastname

Enter lastname

Employee Date of Birth

Enter Date of Birth

Employee Date of Join

Enter Date of Join

Employee Role

Select Role

Employee Salary

Enter Salary

Add Employee

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Employee / Edit Employee

Edit Employee

Employee ID	Employee Email	Employee Telephone	Employee Status
Pick from Selected Value	Re-Enter Email	Re-Enter Telephone	Re-Enter Status
Employee Fristname	Employee Password	Employee Mobile	Employee Gender
Re-Enter Firstname	Re-Enter Password	Re-Enter Mobile	Re-Select Gender ▾
Employee Lastname	Employee Date of Birth	Employee Date of Join	Employee Role
Re-Enter lastname	Re-Enter Date of Birth	Re-Enter Date of Join	Re-Select Role ▾
Employee Salary			
Re-Enter Salary			

Edit Employee

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Employee / View Employee

Edit Employee

Employee ID	Employee Email	Employee Telephone	Employee Status
Pick from Selected Value	Employee Email	Employee Telephone	Employee Status

Employee Fristname	Employee Password	Employee Mobile	Employee Gender
Employee Fristname	Employee Password	Employee Mobile	Employee Gender

Employee Lastname	Employee Date of Birth	Employee Date of Join	Employee Role
Employee Lastname	Employee Date of Birth	Employee Date of Join	Employee Role

Employee Salary
Employee Salary

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Student / Add Student

Add Student

Student ID

System Generated Student ID

Student Email

Enter Email

Student Telephone

Enter Telephone

Student Status

Enter Status

Student Firstname

Enter Firstname

Student Password

Enter Password

Student Mobile

Enter Mobile

Student Gender

Select Gender

Student Lastname

Enter lastname

Student Date of Birth

Enter Date of Birth

Student Date of Admission

Enter Date of Admission

Student Class

Select Class

Student Class Section

Select Section

Student Parent ID

Assign Parent

Add Student

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Student / Edit Student

Edit Student

Student ID	Student Email	Student Telephone	Student Status
Pick from Selected Value	Re-Enter Email	Re-Enter Telephone	Re-Enter Status

Student Fristname	Student Password	Student Mobile	Student Gender
Re-Enter Firstname	Re-Enter Password	Re-Enter Mobile	Re-Enter Gender

Student Lastname	Student Date of Birth	Student Date of Admission	Student Class
Re-Enter Lastname	Re-Enter Date of Birth	Re-Enter Date of Admission	Re-Enter Class

Student Class Section	Student Parent ID
Re-Enter Section	Re-Assign Parent

Edit Student

Student / Edit Student

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Student / View Student

View Student

Student ID	Student Email	Student Telephone	Student Status
Pick from Selected Value	Email	Telephone	Status

Student Firstname	Student Password	Student Mobile	Student Gender
Firstname	Password	Mobile	Gender

Student Lastname	Student Date of Birth	Student Date of Admission	Student Class
Lastname	Date of Birth	Date of Admission	Student Class

Student Class Section	Student Parent ID
Class Section	Parent ID

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Parent / Add Parent

Add Parent

Parent ID	Parent Father CNIC	Parent Mother CNIC	Parent Email
<input type="text" value="System Generated Parent ID"/>	<input type="text" value="Enter CNIC"/>	<input type="text" value="Enter CNIC"/>	<input type="text" value="Enter Email"/>
Parent Father Name	Parent Mother Name	Parent Telephone	Parent Password
<input type="text" value="Enter Father Name"/>	<input type="text" value="Enter Mother Name"/>	<input type="text" value="Enter Telephone"/>	<input type="text" value="Enter Password"/>
Parent Father Mobile	Parent Mother Mobile	Parent Address	
<input type="text" value="Enter Father Mobile"/>	<input type="text" value="Enter Mother Mobile"/>	<input type="text" value="Enter Address"/>	

Add Parent

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Parent / Edit Parent

Edit Parent

Parent ID	Parent Father CNIC	Parent Mother CNIC	Parent Email
Pick from Selected Value	Re-Assign CNIC	Re-Assign CNIC	Re-Assign Email
Parent Father Name	Parent Mother Name	Parent Telephone	Parent Password
Re-Assign Father Name	Re-Assign Mother Name	Re-Assign Telephone	Re-Assign Password
Parent Father Mobile	Parent Mother Mobile	Parent Address	
Re-Assign Father Mobile	Re-Assign Mother Mobile	Re-Assign Address	

Edit Parent

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Parent / View Parent

View Parent

Parent ID	Parent Father CNIC	Parent Mother CNIC	Parent Email
Pick from Selected Value	CNIC	CNIC	Email

Parent Father Name	Parent Mother Name	Parent Telephone	Parent Password
Father Name	Mother Name	Telephone	Password

Parent Father Mobile	Parent Mother Mobile	Parent Address
Father Mobile	Mother Mobile	Address

Dashboard

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Result / Add Result

Add Result

Result ID	Student ID	Obtain Marks	Grade
System Generated Result ID	Enter Student ID	System Fetched Obtain Mark	System Assigned Grade

Exam ID	Total Marks	Percentage
Enter Exam ID	System Assigned Total Marks	System Calculated Percentage

Add Result

Result ID: System Generated Result ID

Student ID: Enter Student ID

Obtain Marks: System Fetched Obtain Mark

Grade: System Assigned Grade

Exam ID: Enter Exam ID

Total Marks: System Assigned Total Marks

Percentage: System Calculated Percentage

Add Result

Result / Add Result

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Result / Edit Result

Edit Result

Result ID	Student ID	Obtain Marks	Grade
Pick from Selected Value	Re-Enter Student ID	System Fetched Obtain Mark	System Assigned Grade

Exam ID	Total Marks	Percentage
Re-Enter Exam ID	System Assigned Total Marks	System Calculated Percentage

Get Result

Edit Result

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Result / View Result

View Result

Student ID

Pick from Selected Value

Student Class

Student Class

Parent Mother Name

Mother Name

Student Fristname

Firstname

Student Class Section

Class Section

Parent Father Name

Father Name

Student Lastname

Lastname

SNO.	EXAM TYPE	CLASS	SUBJECT	TOTAL MARKS	OBTAIN MARKS	GRADE
1	Body	Body	Body	Body	Body	Body
2	Body	Body	Body	Body	Body	Body
3	Body	Body	Body	Body	Body	Body
4	Body	Body	Body	Body	Body	Body
5	Body	Body	Body	Body	Body	Body

 Dashboard Class Subject Employee Student Result Timetable Payments Attendance

Timetable / Add Timetable

Add Timetable

Time Table ID	Class Name	Class Section	Subject		
System Generated ID	Select Class	Select Section	Select Subject		
Day	Start Time	End Time			
Select Day	Enter Start Time	Enter End Time	<button>Add Subject Routine</button>		
DAY	1st Period	2nd Period	3rd Period	4th Period	5th Period
MONDAY	Body	Body	Head	Body	Body
TUESDAY	Body	Body	Head	Body	Body
WEDNESDAY	Body	Body	Head	Body	Body
THURSDAY	Body	Body	Head	Body	Body
FRIDAY	Body	Body	Head	Body	Body

Save Timetable

 Dashboard Class Subject Employee Student Result Timetable Payments Attendance

Timetable / Edit Timetable

Edit Timetable

Time Table ID	Class Name	Class Section	Subject		
Pick from Selected Value	Re-select Class	Re-select Section	Re-select Subject		
Day	Start Time	End Time			
Re-select Day	Re-Enter Start Time	Re-Enter End Time	Add Subject Routine		
DAY	1st Period	2nd Period	3rd Period	4th Period	5th Period
MONDAY	Body	Body	Head	Body	Body
TUESDAY	Body	Body	Head	Body	Body
WEDNESDAY	Body	Body	Head	Body	Body
THURSDAY	Body	Body	Head	Body	Body
FRIDAY	Body	Body	Head	Body	Body

Edit Timetable

 Dashboard Class Subject Employee Student Result Timetable Payments Attendance

Timetable / View Timetable

View Timetable

Class Name

Class Section

Class Name

Class Section

DAY

1st Period

2nd Period

3rd Period

4th Period

5th Period

MONDAY

Body

Body

Head

Body

Body

TUESDAY

Body

Body

Head

Body

Body

WEDNESDAY

Body

Body

Head

Body

Body

THURSDAY

Body

Body

Head

Body

Body

FRIDAY

Body

Body

Head

Body

Body

 Dashboard Class Subject Employee Student Result Timetable Payments Attendance

Payments / Add Payments

Add Payments

Payment ID	Student ID	Previous Charges	Additional Charges
<input type="text" value="System Generated ID"/>	<input type="text" value="Enter Student ID"/>	<input type="text" value="System Picked Previous Charges"/>	<input type="text" value="Enter Charges"/>

Month	Discount
<input type="text" value="Select Month"/>	<input type="text" value="Enter Discount"/>

Create Voucher

MONTH	AMOUNT	DISCOUNT	STATUS	PAID DATE	BALANCE AMOUNT
JANUARY	Body	Body	Head	Body	Body
FEBURARY	Body	Body	Head	Body	Body
MARCH	Body	Body	Head	Body	Body
APRIL	Body	Body	Head	Body	Body
MAY	Body	Body	Head	Body	Body

Save Payment

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Payments / Edit Payments

Edit Payments

MONTH	AMOUNT	DISCOUNT	STATUS	PAID DATE	BALANCE AMOUNT
JANUARY	Body	Body	Head	Body	Body
FEBURARY	Body	Body	Head	Body	Body
MARCH	Body	Body	Head	Body	Body
APRIL	Body	Body	Head	Body	Body
MAY	Body	Body	Head	Body	Body

Edit Payment

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Payments / View Payments

View Payments

Payment ID	Student ID	Student Firstname	Student Lastname		
<input type="text" value="System Generated ID"/>	<input type="text" value="Enter Student ID"/>	<input type="text" value="Student Firstname"/>	<input type="text" value="Student Lastname"/>		
Class Name	Section Name				
<input type="text" value="Class Name"/>	<input type="text" value="Section Name"/>				
MONTH	AMOUNT	DISCOUNT	STATUS	PAID DATE	BALANCE AMOUNT
JANUARY	Body	Body	Head	Body	Body
FEBURARY	Body	Body	Head	Body	Body
MARCH	Body	Body	Head	Body	Body
APRIL	Body	Body	Head	Body	Body
MAY	Body	Body	Head	Body	Body

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 Dashboard Class Subject Employee Student Result Timetable Payments Attendance

Attendance / Mark Attendance

Mark Attendance

Class Name

Select Class

Section

Select Section

Date

Select Date

GET STUDENT LIST

SNO.	SID	STUDENT NAME	REMARKS	STATUS
1	Cell	Cell	Cell	<input type="radio"/> PRESENT <input checked="" type="radio"/> ABSENT <input type="radio"/> LATE
2	Cell	Cell	Cell	<input type="radio"/> PRESENT <input checked="" type="radio"/> ABSENT <input type="radio"/> LATE
3	Cell	Cell	Cell	<input type="radio"/> PRESENT <input checked="" type="radio"/> ABSENT <input type="radio"/> LATE
4	Cell	Cell	Cell	<input type="radio"/> PRESENT <input checked="" type="radio"/> ABSENT <input type="radio"/> LATE
5	Cell	Cell	Cell	<input type="radio"/> PRESENT <input checked="" type="radio"/> ABSENT <input type="radio"/> LATE
6	Cell	Cell	Cell	<input type="radio"/> PRESENT <input checked="" type="radio"/> ABSENT <input type="radio"/> LATE

Save Attendance

 Dashboard Class Subject Employee Student Result Timetable Payments Attendance

Attendance / Edit Attendance

Edit Attendance

Class Name

Select Class

Section

Select Section

Date

Select Date

GET STUDENT LIST

SNO.	SID	STUDENT NAME	REMARKS	STATUS
1	Cell	Cell	Cell	<input type="radio"/> PRESENT <input checked="" type="radio"/> ABSENT <input type="radio"/> LATE
2	Cell	Cell	Cell	<input type="radio"/> PRESENT <input checked="" type="radio"/> ABSENT <input type="radio"/> LATE
3	Cell	Cell	Cell	<input type="radio"/> PRESENT <input checked="" type="radio"/> ABSENT <input type="radio"/> LATE
4	Cell	Cell	Cell	<input type="radio"/> PRESENT <input checked="" type="radio"/> ABSENT <input type="radio"/> LATE
5	Cell	Cell	Cell	<input type="radio"/> PRESENT <input checked="" type="radio"/> ABSENT <input type="radio"/> LATE
6	Cell	Cell	Cell	<input type="radio"/> PRESENT <input checked="" type="radio"/> ABSENT <input type="radio"/> LATE

Edit Attendance

 Dashboard Class Subject Employee Student Result Timetable Payments Attendance

Attendance / View Attendance

View Attendance

Class Name

Select Class

Section

Select Section

Date

Select Date

GET STUDENT LIST

SNO.	SID	STUDENT NAME	REMARKS	STATUS
1	Cell	Cell	Cell	<input type="radio"/> PRESENT <input checked="" type="radio"/> ABSENT <input type="radio"/> LATE
2	Cell	Cell	Cell	<input type="radio"/> PRESENT <input checked="" type="radio"/> ABSENT <input type="radio"/> LATE
3	Cell	Cell	Cell	<input type="radio"/> PRESENT <input checked="" type="radio"/> ABSENT <input type="radio"/> LATE
4	Cell	Cell	Cell	<input type="radio"/> PRESENT <input checked="" type="radio"/> ABSENT <input type="radio"/> LATE
5	Cell	Cell	Cell	<input type="radio"/> PRESENT <input checked="" type="radio"/> ABSENT <input type="radio"/> LATE
6	Cell	Cell	Cell	<input type="radio"/> PRESENT <input checked="" type="radio"/> ABSENT <input type="radio"/> LATE

 Dashboard

 Class

 Subject

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Exam / Add Exam

Add Exam

Exam ID

System Generated ID

Class Name

Select Class

Subject Name

Select Subject

Exam Type

Select Exam Type

Date Time

Select Date Time

Create Exam

 Dashboard

 Class

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Exam / Edit Exam

Edit Exam

Exam ID

Pick from the Selected Value

Class Name

Select Class

Subject Name

Select Subject

Exam Type

Select Exam Type

Date Time

Select Date Time

Edit Exam

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Exam / View Exam

View Exam

Exam ID	Class Name
System Generated ID	Class
Subject Name	Exam Type
Subject	Exam Type
Date Time	
Date Time	

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