

# “School Management System”

## Proposal

Proposed By:

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## Introduction

School Management System (SMS) is to make everyday school tasks easier and faster.

Before this system, everything was handled manually, which caused mistakes, delays, and stress for teachers, students, and parents.

With this new system, all school activities like student registration, attendance, grading, report generation, and communication are done digitally. This makes work more accurate, and quick.

## Main Features

- Easy student registration and profile management.
- Digital attendance record keeping.
- Online access to student grades and academic performance.
- Direct communication between teachers, students, and parents.
- Automatic report generation for progress and attendance.
- Notifications and updates for students and parents.
- Library management for issuing, returning, and tracking books.

## Stakeholders and Their Work

Stakeholder	Work/Responsibilities
Student	View grades, attendance, academic record, and talk to teachers/admin.
Teacher	Manage student profiles, enter grades, update attendance, generate reports, and communicate with students and parents.
Parent	See their child's performance and attendance; communicate with teachers/admin.

Administrator	Handle student registration, grades, attendance, notifications, communication, and report generation.
Librarian	Manage library books, issue them to students, and record returns.

### Functional Requirements:

#### Student Functional Requirements

FR Code	Functional Requirement	Stakeholders Involved
FR1.1	Student should be able to register online	Student, Administrator
FR1.2	Student should be able to enroll in courses/subjects	Student, Administrator
FR1.3	Student should be able to pay fees online and check fee status	Student, Administrator
FR1.4	Student should be able to view academic records	Student
FR1.5	Student should be able to view grades	Student
FR1.6	Student should be able to view attendance	Student
FR1.7	Student should be able to download timetable and exam schedule	Student
FR1.8	Student should be able to request transcripts/certificates	Student, Administrator
FR1.9	Student should be able to talk to teachers	Student, Teacher
FR1.10	Student should be able to receive updates/announcements from admin	Student, Administrator
FR1.11	Student should be able to borrow/return books from librarian	Student, Librarian

#### Teacher Functional Requirements

FR Code	Functional Requirement	Stakeholders Involved
FR2.1	Teacher should be able to manage student profiles	Teacher

<b>FR Code</b>	<b>Functional Requirement</b>	<b>Stakeholders Involved</b>
<b>FR2.2</b>	Teacher should be able to record/update attendance	Teacher
<b>FR2.3</b>	Teacher should be able to enter grades	Teacher
<b>FR2.4</b>	Teacher should be able to generate reports (progress, attendance)	Teacher
<b>FR2.5</b>	Teacher should be able to upload assignments and study material	Teacher
<b>FR2.6</b>	Teacher should be able to evaluate assignments/tests online	Teacher
<b>FR2.7</b>	Teacher should be able to track student progress in real time	Teacher
<b>FR2.8</b>	Teacher should be able to set exam schedules	Teacher, Administrator
<b>FR2.9</b>	Teacher should be able to communicate with students	Teacher, Student
<b>FR2.10</b>	Teacher should be able to communicate with parents	Teacher, Parent

### **Parent Functional Requirements**

<b>FR Code</b>	<b>Functional Requirement</b>	<b>Stakeholders Involved</b>
<b>FR3.1</b>	Parent should be able to register/login to parent portal	Parent, Administrator
<b>FR3.2</b>	Parent should be able to check child's performance	Parent
<b>FR3.3</b>	Parent should be able to view child's attendance	Parent
<b>FR3.4</b>	Parent should be able to receive fee notifications and pay online	Parent, Administrator
<b>FR3.5</b>	Parent should be able to receive important school alerts (events, holidays)	Parent, Administrator
<b>FR3.6</b>	Parent should be able to download student's progress reports	Parent
<b>FR3.7</b>	Parent should be able to communicate with teachers	Parent, Teacher
<b>FR3.8</b>	Parent should be able to communicate with admin	Parent, Administrator

### **Admin Functional Requirements**

<b>FR Code</b>	<b>Functional Requirement</b>	<b>Stakeholders Involved</b>
<b>FR4.1</b>	Admin should be able to register new students	Administrator
<b>FR4.2</b>	Admin should be able to manage student enrollment in courses	Administrator
<b>FR4.3</b>	Admin should be able to manage fee structures and payments	Administrator
<b>FR4.4</b>	Admin should be able to record and update attendance	Administrator
<b>FR4.5</b>	Admin should be able to enter grades	Administrator
<b>FR4.6</b>	Admin should be able to generate reports	Administrator
<b>FR4.7</b>	Admin should be able to manage teacher accounts	Administrator
<b>FR4.8</b>	Admin should be able to manage courses/class timetables	Administrator
<b>FR4.9</b>	Admin should be able to manage exam scheduling and results	Administrator
<b>FR4.10</b>	Admin should be able to send updates/announcements to students	Administrator, Student
<b>FR4.11</b>	Admin should be able to communicate with parents	Administrator, Parent
<b>FR4.12</b>	Admin should be able to manage user roles and system security	Administrator

### **Librarian Functional Requirements**

<b>FR Code</b>	<b>Functional Requirement</b>	<b>Stakeholders Involved</b>
<b>FR5.1</b>	Librarian should be able to manage book records	Librarian
<b>FR5.2</b>	Librarian should be able to issue books to students	Librarian, Student
<b>FR5.3</b>	Librarian should be able to record book returns	Librarian, Student
<b>FR5.4</b>	Librarian should be able to manage overdue book fines	Librarian
<b>FR5.5</b>	Librarian should be able to generate reports of issued/returned books	Librarian

## Relation of Stakeholders to Functional Requirements

- Students → Connected to academic access, attendance viewing, and communication.
- Teachers → Connected to managing profiles, grades, attendance, reports, and communication.
- Parents → Connected to viewing performance/attendance and communicating with teachers/admin.
- Administrators → Connected to registration, attendance, grades, notifications, communication, and reports.
- Librarians → Connected to book management, issuing, and returning.