# School Management System

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# Introduction

School Management System helps headmasters to get the most accurate information to make more effective decisions. Teachers and headmasters gain time saving administrative tools, parents gain immediate access to their children's grades and students can track their own progress. School Management System equipped features makes it possible to generate schedules and reports in minutes and to retrieve attendance records, grade checks, report cards, transcripts, and form letters in just a few clicks.

School Management Systems helps Teachers to complete grade book, track students attendance, input class notes, create lesson plans and detailed reports, and communicate with other staff members, students, and parents all via e-mail.

It also helps Students to access assignments and tests, and view attendance records, grades, report cards, and progress reports all online. They also can communicate through mail and forums with teachers and other students online.

My School (SMS) is a web enabled application developed in PHP and powerful MYSQL database backend. To implement My School application, schools do not need expensive hardware and software, they just need an internet connection and desktops. Our system works as a centralized database and application that schools can easily access the system from anywhere based on the login credentials. My School is a platform independent system that virtually any user can access from anywhere through a standard internet accessible system. We can also customize My School for individual school needs.

# Problem Statement

The academic achievement for many students has decline, because of lake of care of them from their parents, and this refer to that their parents do not have a free time to come to school . Headmasters and Teachers are facing problems at the start of every new academic year, because of distribution process for courses and classes, in addition to this , through and at the end of every year another problem is facing them, which is the complexities of the grades entry process for their students . Lack of communication after a school day between Headmasters, Teachers, Parents and Students, which has a bad reflection on the educational process.

# Why is it required?

The importance of school education lies in the fact that the children of today will become adult citizens of tomorrow. The growth and future of our country highly depends upon the quality of the present school education system. And in a good school the chief objective is to stimulate interest and curiosity in the students and provide all possible facilities for headmasters, teachers and parents to achieve the desired goal which is a better and easier educational ways for students.

*Objectives*

- To build a responsive website to manage the different school activities. - To track student's grades from their parents.
- To facilitate distribution process of courses and classes for teachers.
- To facilitate grades entry process for students by teachers.

- To make a virtual community between the members of educational process.

# Features

| User | Description |
|------|-------------|
| Management | - Single points school management software<br>- Manage multiple campuses.<br>- Enable internet front-end for the school.<br>- Connect with Parents and other stakeholders effectively<br>- Build and Manage community of parents, teachers and students - Manages all administrative records with zero redundancy<br><br>- Achieve best possible resource optimization |
| Teachers | - Complete marks/grade management<br>- Publish articles for others.<br>- Interact with parents efficiently and effectively.<br>- View analytical reports<br>- Email and Internal messaging system.<br>- Participate in forum and share knowledge with others. - View Timetable in advance. |
| Students | - Real time exposure for better learning.<br>- Publish article to share knowledge, experience and views. - Participate in forums.<br>- View online marks and timetable for exams.<br>- Interaction with other students, teachers and parents.<br>- View Timetable in advance.<br>- View current events and holidays at school. |

# Functional Requirements

**Admin (Headmaster)**

- Create, edit and delete student account.
- Create, edit and delete teacher account.
- Create, edit and delete parent account.
- Post tasks or any updates for users (Teacher, Student, and Parent). - Store, edit, delete, calculate and print student's grade.
- Add Classes and Subject and connect them with the subject's teachers.

**Teacher**

- Enter Student's grades per Subject.
- Contact with students and parents.
- Post tasks or any updates for users (Admin, Student, and Parent).

**Student**

- View their grades.
- Contact with their teacher and headmaster.

Parent

- View the grades of their children.
- Contact with their children's teachers and headmaster.

# System Requirements

Before creating any website or a mobile App, it is necessary to visualize the layout, design and all features intended to be incorporated. In addition, how users will interact with each page and icon and how the website/App should perform (behavior, load time etc.). Requirements are the necessary attributes in the system, a statement that identifies a capability, characteristic or quality factor of the system in order to have value and utility to the users. Once the requirements are set, developers can initiate the other technical work including system design, development, testing, implementation, and operation.

For any system, there are functional and non-functional requirements to be considered while determining the requirements of the system. The functional requirements are user "visible" features that are typically initiated by stakeholders of the system, such as generate report, login, and signup. On the other hand, nonfunctional requirements are requirements that describe how the system will do what it is supposed to do, for example, security, reliability and maintainability.

# Resources used

*PHP :*

Is an open source server-side language which is used for creating dynamic web pages. It can be embedded into HTML. PHP is usually used in conjunction with a MySQL database on Linux/UNIX web servers. It is probably the most popular scripting language. And it is a widely-used general-purpose scripting language and interpreter that is freely available. A full explanation of all the PHP tags.

*MySQL Database ::*

MySQL is the world's most popular open source database. With its proven performance, reliability and ease-of-use, MySQL has become the leading database choice for web-based applications, used by high profile web properties including Facebook, Twitter, YouTube, Yahoo! and many more(2).