

# **School Management System**

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# 1. Introduction

Nowadays education plays a great role in the development of any country. Many education organizations try to increase education quality. One of the aspects of this improvement is managing school resources. Our system is a major tool through this managing process by making a continuous communication between headmaster, teacher, parents and student. So in order to achieve that goal, we need a Website that covers the needs of all users at the same Time.

For Students they can view their subject's grades, contact with the headmaster and teachers for any complaint, recommendation or an absence permission, and They are also up to date with all school's news or posts that publish by the other users. For Headmasters, they have full control on the system, like they can add new parents, teachers and students with their subjects. For Teachers, they can add student's grades or edit it for their own subjects only, and they have a direct connection with students and their parents . For Parents, they have access to their sons/daughters grades without any possibility to edit it, and they can directly contact teachers and headmasters. All the system users can publish whatever they need within the educational process on the last updates section, and these posts are visible for all the users.

# 2. Problem Statement

The academic achievement for many students has declined, because of lack of care from their parents, and this refers to the fact that their parents do not have free time to come to school . Headmasters and Teachers are facing problems at the start of every new academic year, because of the 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.

# 3. Objectives

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

## **4. Preliminary Literature Review**

Institute of Education and Research - University of Dhaka reports that communities expect their graduates to be prepared to succeed in the Digital age but that 1st-century skills are not well defined. These skills are not integrated in many state learning standards or measured on most state and local assessments. IER believes we are preparing students to succeed in yesterday's world and that schools are obligated to keep up with rapid technology, research, and societal changes. Yesterday's education is inadequate for today's learners. The sheer magnitude of human knowledge, world globalization, and the accelerating rate of change due to technology necessitates a shift in our children's education from plateaus of knowledge to continuous cycles of learning.[1]

Students also indicated a desire to develop better computer skills than what they were currently getting in school. Only one-third of those surveyed thought their computer education was teaching them what they need to know by high school graduation. This is the Era of digitalization. So the school management system needs to introduce the students of Bangladesh, becoming more efficient in IT besides their education. In recent years, some schools have started their journey with a school management system.[2]

## **5. Methodology**

A Prototyping Model has been used to develop this application. The Prototyping model is a technique for quickly building a function but incomplete model of the information system. There are several kinds of prototypes but they all intend to reduce risk by building a quick and dirty replica or mockup of the intended system. It can be used to demonstrate technical feasibility when the technical risk is high. It can also be used to better understand and elicit user requirements. In either case, the goal is to reduce risk and limit costs by increasing understanding of proposed solutions before committing more resources, as shown in the figure . The methodology is the requirement where analyzed from the developer's point of view. We were using a Prototyping Model and MVC architecture. We had begun the analysis by looking at the possible challenges that will be encountered and Alternative solutions that could be implemented. System implementation will be carried out using HTML, PHP, JavaScript, MySQL for Database, framework: Laravel which are the open-source application.

## 6. References

- [1] Bachelors Thesis Maruf Billah 2016 - available at -  
[https://www.academia.edu/36247893/School\\_Management\\_System\\_Project\\_Document\\_docx](https://www.academia.edu/36247893/School_Management_System_Project_Document_docx)
- [2] Masters Thesis Carrie J Leonard 2017 - available at -  
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