



Web-Based School Management System

C. Omeswar Reddy¹, B. Bhanu Prakash Reddy²

^{1,2}Computer Science and Engineering, Lovely Professional University, India.

How to cite this paper:

Omeswar¹, Bhanu Prakash², "Web-Based School Management System", IJIRE-V3I02-223-228.

Copyright © 2022 by author(s) and
5th Dimension Research Publication.

This work is licensed under the Creative Commons
Attribution International License (CC BY 4.0).
<http://creativecommons.org/licenses/by/4.0/>

Abstract: School Management System may be a massive info system which may be used for managing your school's day to day business. School Management System permits users to store most of their school's info electronically, together with info on students, properties, teaching meteorites etc. Most significantly, this info is simply shared with licensed users, records is simply searched, and reports is simply generated. School Management System is software which is helpful for students as well as the school authorities. In the current system all the activities are done manually. It is very time consuming and costly. An efficient Student Management Solution that, enables in maintaining and give the promotions and remarks for the student in the School Management System.

Key Word: Admin, Student Payment, Admissions, Teachers, Parents, Invoices

I. INTRODUCTION

The title of the project is "SCHOOL MANAGEMENT SYSTEM". This project will handle whole the activities of the school. School Management System has most of the facilities that a trendy faculty needs to computerize its regular jobs. A School Management System is an information management system for academic establishments to manage all student's knowledge. School Management System is the system which manage students, Fees, teachers, classes, subjects and many more. Here, the user can use the features and manage students, fees, bank, teachers, subjects, classes, streams, hostel, timetable, events, notices/announcement, exam result, fee structure, attendance. Login sessions can even be viewed from the admin panel. Currently talking regarding all the main functions of the system that's the feature to feature, edit, delete and think about students, teachers, categories and management of Fees. While adding a student, the user has to provide full name, select gender, and date of birth, attach photos, select class, total fees, advance fees, balance, and parents. Page | 3 The main objective of the School Management System is to manage the details of Schools, Students, Classes, Teachers, Registrations. It manages all the information about Schools, Courses, Registrations, Schools. The project is totally built at administrative end and thus only the administrator is guaranteed the information about Schools, Courses, Registrations, Schools. The project is completely engineered at body finish and so solely the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Schools, Students, anteed the access. Courses, Classes. It tracks all the details about the Classes, Teachers, Registrations.

II. MATERIAL AND METHODS

This prospective comparative study was carried out on Seconary Schools of Chittoor district, Andhra Pradesh from February 2022 to April 2022. A total 2 students of aged ≥ 18 , years were for in this study.

Study Design: Open observational study

Study Location: Vayalpad Mandal, Chittoor District, Andhra Pradesh

Study Duration: February 2022 to April 2022.

III. PROFILE OF THE PROBLEM

The problem occurred before having computerized system includes:

- File lost

When computerized system is not implemented file is always lost because of human environment. due to some human error, there may be a loss of records.

- File damaged

When a computerized system is not there, file is always lost due to some accident like of water by some member on file accidentally. Besides some natural disaster like floods or fires may also damage the files.

- Difficult to search record

When there is no computerized system there is always a difficulty in searching of records if the records are large in number.

- Space consuming

After the number of records become large the space for physical storage of file and records also if no computerized system is implemented.

- Cost consuming

As there is no computerized system to add each record paper will be needed which will increase the cost the management of school.

IV.SCOPE OF THE STUDY

Now-a-days folks square measure extremely lean towards digitalization. Since there's the fierce competition in education business, each institute should adopt the digital system for staying ahead. School management system helps the colleges to run the sleek functions additionally as keep right knowledge handy. With school management software, you may offer the effective educational services. Additionally, to it's the foremost convenient tool for up your services. as an example, your institute has simply started some new courses; you'll be able to send direct notification to any or all the scholars. This system permits you save time additionally as resources to only concentrate on the standard education. In the digital era nowadays, it's the correct time to supply not simply the systematic admission method however trouble- free admission expertise to students. You will get School management software & efficiently handle your admission procedure all along with managing essential school operations. Nothing is ideal during this world. So, we have a tendency to are no exception. Although, we've got tried our best to gift the knowledge effectively, nonetheless there is additional improvement within the Application.

V.EXISTING SYSTEM

In the present School Management System, it is uneasy to store the information related to students, faculty and parents on the paper. As there is too much information when someone tries to access any of stored information it becomes a difficult and time-consuming task. While these days parents and faculty have more work than just take care of students it is difficult for both parents and faculty to monitor them. Whereas the storing and retrieving an information is a difficult task, it also requires much amount of unnecessary worker to do the task. Only the administrator can access the student information anytime and can change important information & monitor abnormalities in the data. Administrators will get full benefit and may see everything easily from eagle's eye. The school management software is a big boon with the focus on making school management user-friendly and easier. With increased automation, the paperwork is eliminated from daily work process. The reports also can be generated with the help of the reporting module. The analytics will help administrators to know more about how this organization works as well as create the right plans for future.

VI.WHAT'S NEW IN THE SYSTEM TO BE DEVELOPED

The School Management System that we have a tendency to developed has several new things. The school management system can manage all the add any faculty particularly order so the time demand and complexness of the system are reduced, initially it'll concentrate on student connected info. As a student gets the admission in the school system will start managing the details regarding the students. It will manage the fee details, and if the full payment has not done, then it will notify about the fee to a staff of the school. School Management System can then show the date of the check and once the check completes it'll show the results of the scholars. Whereas the fogeys will use it to watch their children's performance, additionally they'll contact the academics. The teacherscan also see their profiles, students, fees, manage exams, create exams, see salary, create events. This fresh designed school management system has multi login access for admin, students, teachers and parents. The students can see their personal data, exams, timetable, teacher's details, events, notifications, payment history, marks, attendance history etc. The admin of the school has all the rights of the system where he can add teachers, students and can manage admission details, edit and delete records of every particular aspect. The system like this is a boon to the schools across the world where digitization is taking leap.

VII.SOFTWARE REQUIREMENT ANALYSIS

- ✓ Microsoft windows XP/ Windows 7/ Windows 8/ Windows 10/ Windows 11.
- ✓ Visual Studio should be installed.
- ✓ MySQL Server should be installed.
- ✓ WAMP/ XAMPP.
- ✓ Google Chrome, Opera Mozilla

VIII.TESTING OF THE PROJECT

A strategy for software testing must accommodate low-level tests that are necessary to verify that all small source code segment has been correctly implemented as well as high-level tests that validate major system functions against customer requirements. It is assumed that unit testing already provided thorough black box testing and testing of all module interfaces. They will be tested the User Interface by verify ease of navigation through a sample set of screens and verify sample screens confirm to GUI standards.

The basic features/functions that will be tested in our system include the interfaces between the following subsystems:-

1. Admission
2. Payment
3. Upload MarksAdd events

These functionalities will be tested individually by the team members with some selected school staffs as the system completed. All the modules are tested, and no errors were found. The admin can add students and teachers by filling the data and then the data filled will be saved in the database and reflects on the website. Admin can see the payments of students and teachers. He can add or update the payment of them, and the details entered will be stored in the database. The teacher or admin can add the marks of students. Then the marks updated will be stored in the database which will reflect on the website. The marks of each student can be seen by admin, students, teachers and parents. The teachers and admin will be able to create events. Then, the events will be notified to all of them who will be able to access the website.

IX.DATABASE TABLES

Notifications:

Showing rows 0 - 8 (9 total, Query took 0.0003 seconds.)

```
SELECT * FROM `main_notifications`
```

id	notification_id	_status	year	month	date	_isread
1	1	Payments	2022	January	2022-01-25	1
2	2	Payments	2022	March	2022-03-16	1
3	3	Payments	2022	March	2022-03-18	1
4	4	Payments	2022	March	2022-03-18	1
5	5	Payments	2022	March	2022-03-19	1
6	1	Events	2022	March	2022-03-19	1
7	2	Events	2022	March	2022-03-19	1
8	3	Events	2022	March	2022-03-24	1
9	4	Events	2022	March	2022-03-24	0

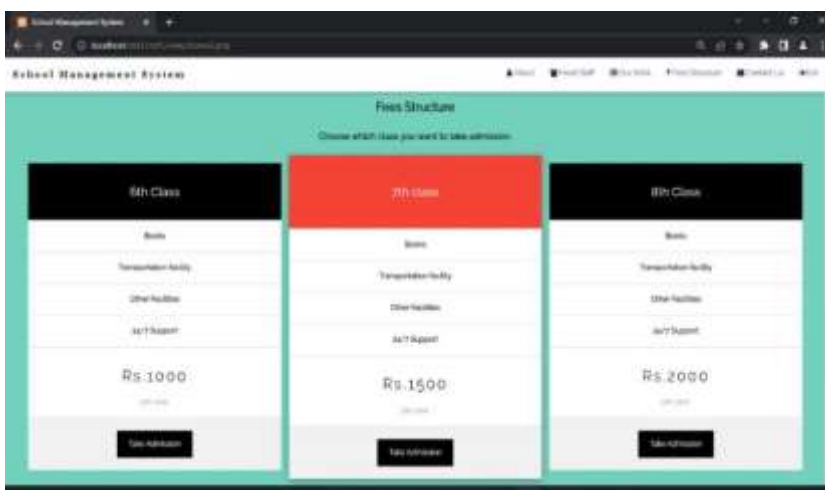
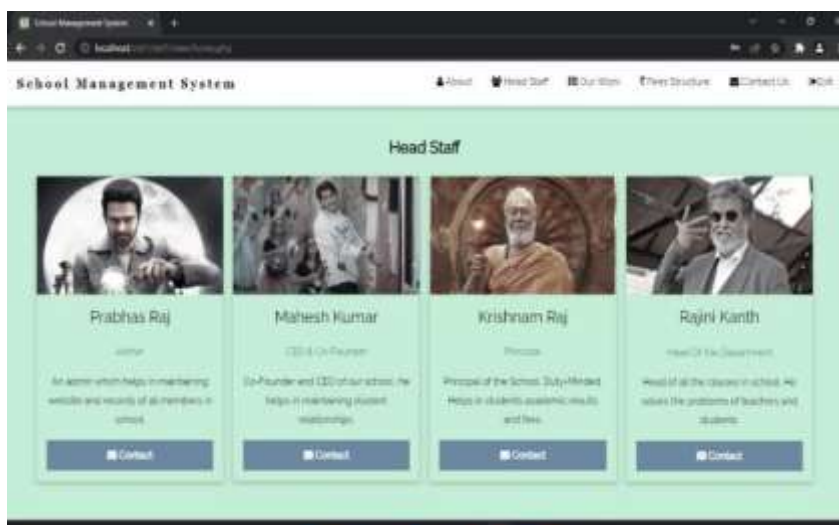
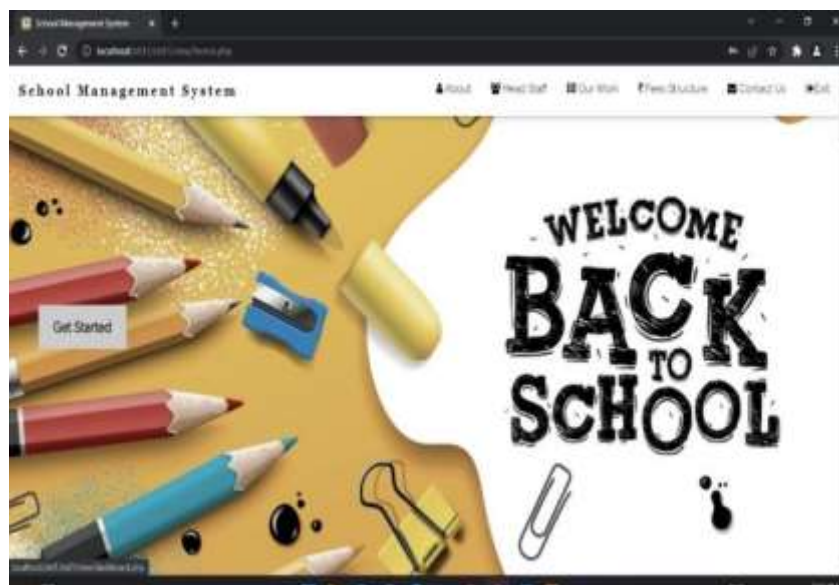
Students Attendance:

Showing rows 0 - 5 (6 total, Query took 0.0003 seconds.)

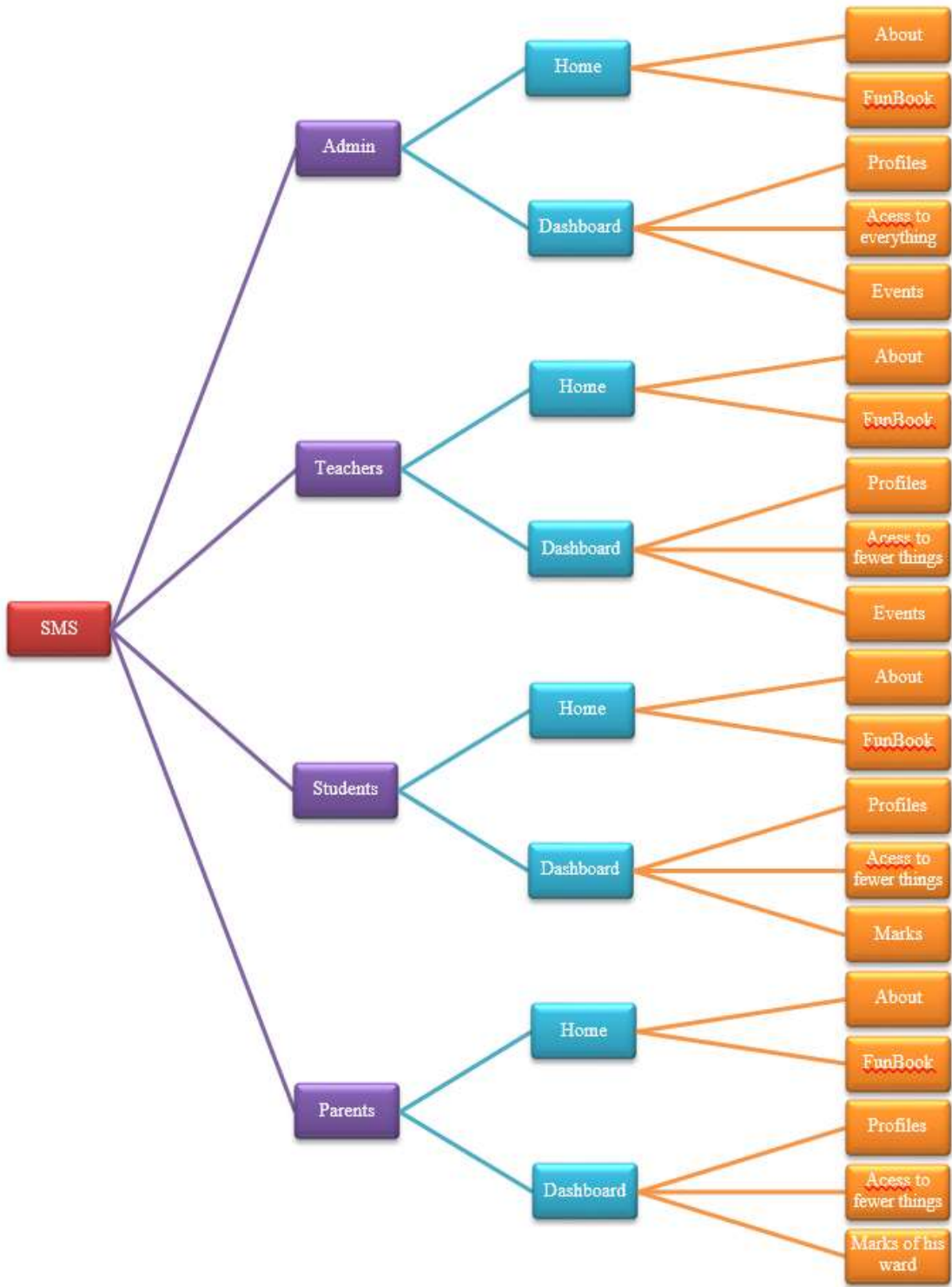
```
SELECT * FROM `student_attendance`
```

id	index_number	date	month	year	time	_status1	_status2
1	11	2022-03-25	January	2022	11:30:59	intime	Present
2	12	2022-03-16	March	2022	09:20:37	intime	Present
3	12	2022-03-16	March	2022	09:21:25	outtime	Present
4	11	2022-03-18	March	2022	04:56:54	intime	Present
5	11	2022-03-18	March	2022	06:29:03	outtime	Present
6	11	2022-03-19	March	2022	07:52:51	intime	Present

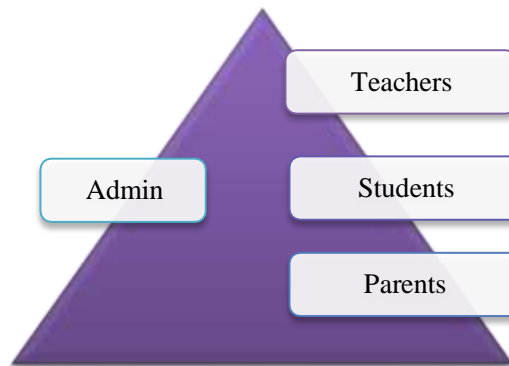
X.SYSTEM SNAPSHOTS



XI.DETAILED DESIGN



XII.DESIGN IMPLEMENTATION



XIII.CONCLUSION

School Management System is bringing a great difference in the lives of students, teachers, parents, and the admin. Good management offers better productivity and hence more progress towards development. Seeing its demands and benefits, we have come forward with best-featured school management software. It helps the school to achieve the target, reduce work, increase efficiency, eliminating error, and monitoring progress.

Student Management System can be used by educational institutions to maintain their student records easily. Achieving this objective is difficult using the manual system as the information is scattered, can be redundant, and collecting relevant information may be very time-consuming. All these problems are solved by this project. This system helps in maintaining the information of pupils of the organization. It can be easily accessed by the manager and kept safe for a long period of time without any changes.

In recent years, with the pace of technological development, people have become more and more demanding in terms of quality of life, and the schools managers in recent years look to improve a performance in their schools to get the highest rate of knowledge and experience in their student.

References

- [1]. W3Schools
- [2]. Campcodes
- [3]. Duckett, J. *Web Design with HTML, CSS, JavaScript and jQuery Set 1st Edition.*
- [4]. Luke Welling, 4. L. T. *PHP and MySQL Web Development (4th Edition) 4th Edition.*