School Automation System

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Abstract— **The main objective behind 'School Automation system' is creating a central system while traditional approach is to do a manual work in paper. So, for that it's very difficult to manage all the record and also difficult to analyze all the record in any departments. A manual work is to lengthy and its very time consuming for the entire department. So, for that needs of central system are arising which gives the effective and efficient result within less time. All departments can access the data with the system and also, they can perform a desired task. With that all the data can be easily manipulated and can be easily retrieved whenever anybody wants.**

With this system in place, people in different departments can view the same information about Student Information, making sure that every single interaction with student is based on accurate information. The manual processes can be automated to free up people's time and make internal processes more efficient. Using this system we can manage the student record in a master file. All the information regarding student can be seen and updated by admin if necessary, apart from that faculty can keep record of student and they can manage information like student profile, exam and other information.

Keywords— Automation, ERP, Management System.

I. INTRODUCTION

School Automation System is a System that manages the records of student, regarding admission, examination part, summary for particular student and also other facilities such as generating reports for faculty.

The system is designed to help for keeping data, storing, manipulating data and analyzing the data. Extensive information is available at your fingertips through this System. Viewing student data, managing student information, staff information and related issues are made simple and easy. There are custom search capabilities to aid in finding student information and working on student records. This can make the system easier to navigate and can be used for maximizing the effectiveness of time and other resources. Enterprise Resource Planning (ERP) allows the keeping of personal data in a form that can be easily accessed and analyzed in a consistent way. Each of modules in ERP is covering many other aspects from administration, student application etc.

II. LITERATURE SURVEY

School Automation System is web enabled application designed to manage the entire Operations of an institution [1]. School Automation System is a simple yet powerful one joint integrated platform that connects all the various departments of an institution like Administration, Account, Student section and many more specialized modules. We have seen over the years that the process of notice boards, important notification about academics has been carried out manually almost across all educational institutions. The process is not only time consuming but also inefficient. Today, we need not to maintain paper-based Notice boards. Also, in this system we are going to add the web-based technology using which we can get the notifications given by the institutes. Following this thought, we have developed a system based on the concept of web services which is implemented on Android mobile application as well as on PC that communicates with the database residing on a remote server. The Unique ID system provides unique identification numbers to the persons who using this system. UID Number which would not just help the admin to track down individuals, but would make life far easier for users as they would not have to submit multiple documents each time because those will be available and to be used.

School Automation System is a typical information management system, including the establishment and maintenance of backstage database and the development of front stage application program [2]. For the former, it requires a database of data consistency and integrity to build strong, full and good, and for the latter procedure, it requires full-functioned and easy to use and so on. This paper mainly introduces the design and implementation of student's School Automation system. After research and analysis, the system uses the PHP and SQL Server to develop, with a three-tier, including the system development environment and technical support, the design of system, the implementation of system and concluded. The main function is for all students, providing them with a teaching management platform to facilitate the management of personal information and co-operate a variety of the teaching mission of schools

III. PROPOSED SYSTEM

The system will record basic personal information, admission information, subject information regarding student. This system provides the ability to "read" applications and enter relevant data to applicable database fields, notify student and provide records.

A. Admin Module

Admin module includes sub-modules such as Administration, Student, Setup and Staff module. The Staff module includes personal information, input, modify, and delete. The student module includes personal information, input, modify, and delete, student attendance information generation, student curriculum management and performance management.

The setup module includes add, delete, modify Institute details. Also, group, class and caste category details can be added or modified. Administration module includes addition, deletion, modification of admin details. Also, various sub-admins can be granted privileges according to their roles.

B. Student Module

Student module includes sub-modules such as My Profile, View Attendance, View fees details etc.

 My Profile consist details of student which can be viewed by the student. The Attendance record can be viewed in Attendance module. The Fee details along with fee receipt can be viewed in Fees module.

C. Staff Module

 Staff modules includes sub-modules such as My Profile, Attendance, Annual leave, Notice Board, Assignment and Study Material upload, also staff can send messages to the admin and the students.

IV. SYSTEM DESIGN

 FEE MODULE DESIGN

 A designated person would be allotted the task of handling the fee collection module by admin. The accountant can add fee details and view the fee structure. After the collection process is completed, the fee receipt would be generated. Further, fee records can be searched category wise. Also, Outstanding fees can be viewed, late fee and due date can be added.
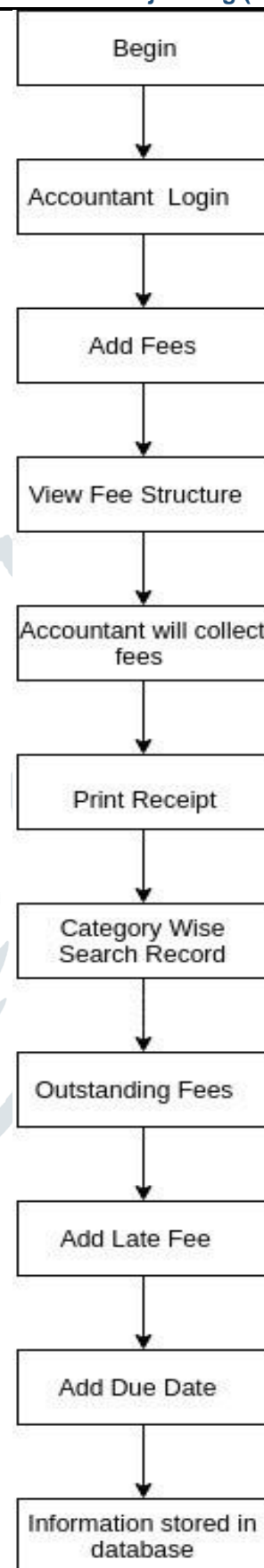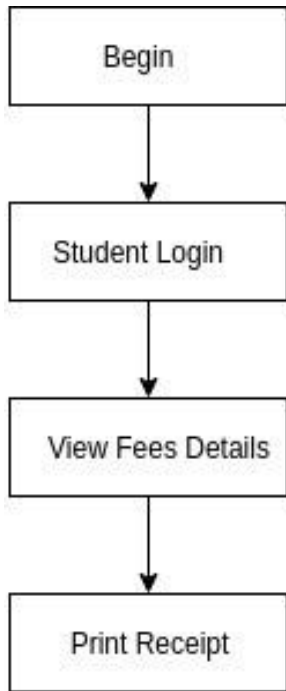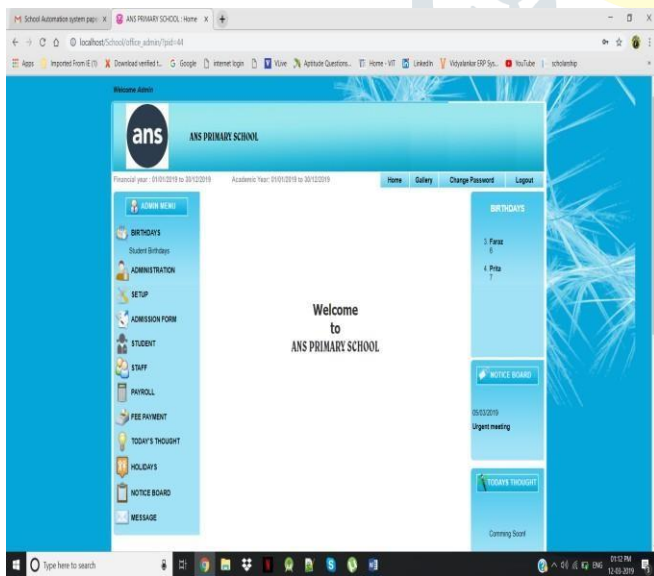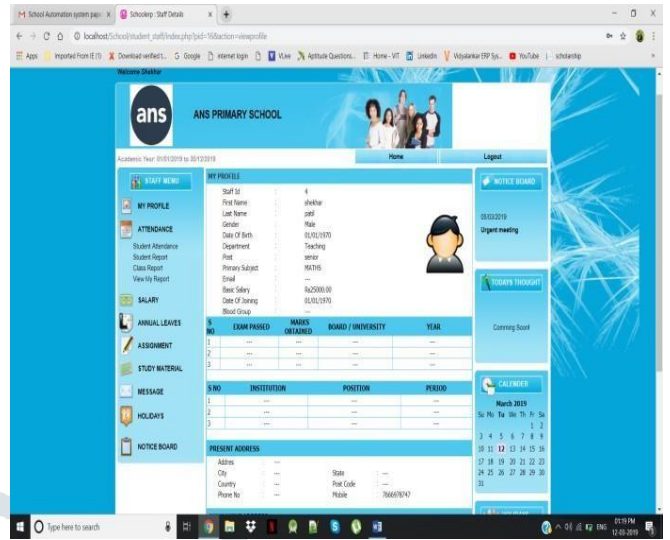

Fig-I Fee Collection module

Staff Login

Fig-II Receipt generation module

In this module, student can view fee details and can print the receipt.

Admin Login

Student Login
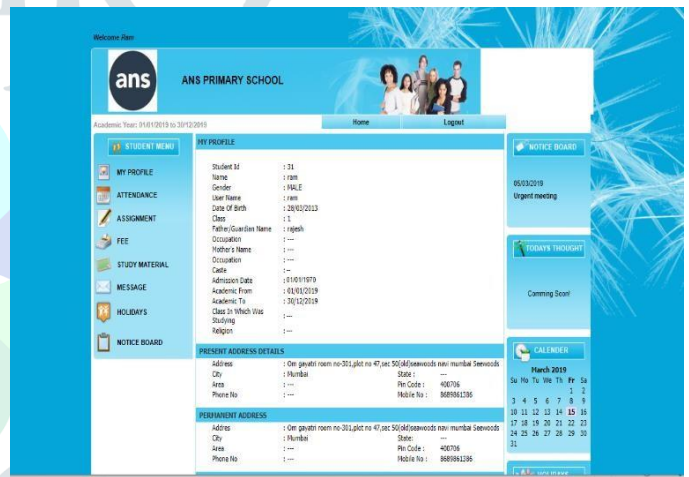
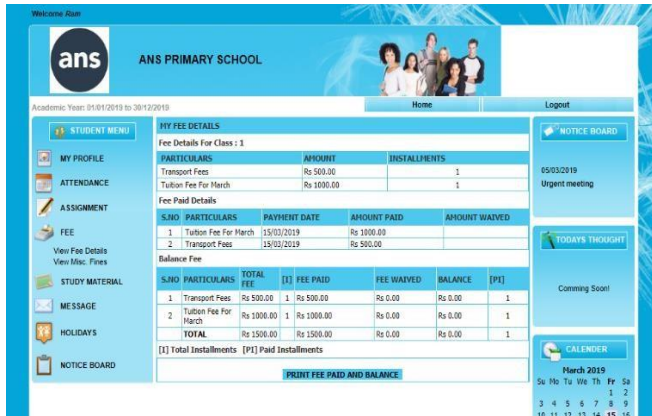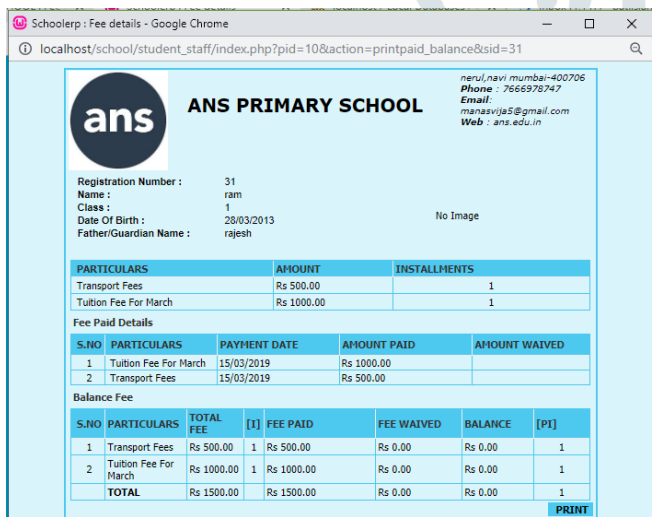Pay Fee (Admin)

View and Print Fee Details (Student)

Fee Receipt

operator and makes the whole system efficient and fast. Now by introducing this system the transactions and reports becomes instantaneous. As a result, administrator of "School Automation system" will be handling their administrative work more accurately and efficient.

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V. FUTURE SCOPE

The system can be incorporated with biometric attendance application so as to avoid the hassle of manual attendance. The browser compatibility can be extended to various other browsers. Further the system should support platform independence so as to make it available across all platforms. Online exam applications can be integrated with this system. Library management system can be integrated with this system.

VI. CONCLUSION

After properly analyzing feasibility reports and comparing the current manual system with automated system, we can say that the automated system is highly efficient. This software is going to serve the long-term needs of School Management System. This software will increase the goodwill of the "School management System". It reduces the burden of work on part of data entry