



Web Based College Automation System

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Abstract— In this paper focuses on a College Automation system is an Web Based project. Which is helpful for students as well as the Faculties, Library and Admin (Record Manager) In the existing system all the activities are done manually. It is very costly and time consuming. In our proposed system, Student can view college related details like assignment, notes, notices, view available books details, attendance, library status etc. Librarian can record new book details also issue book and renew book, etc. Faculty can upload assignment, mark, student attendance, etc. The proposed work has three modules: 1.Student 2.Admin 3.Staff. In Student module student need to register after the registration He/She need to be verify their email. Only after verification of email He/She can login into system. In Admin module, admin can handle and view the all record which store in database. This college automation system access anytime and anywhere, whenever user wants. College Automation System enables colleges to manage enrollment, students, faculty, attendance, fees, scheduling, assignments, grades and library of the institution. This system has easy interface. To overcome the problem of manual system we have developed this system.

Keywords— Attendance system, Library status, asp.net, sql

I. INTRODUCTION

College automation is becoming a very essential component in education in this modern day age. In this modern era everything is handled digitally and everyone has a smart phone, laptops, and various digital device, So why don't we take an advantage of this and utilize it?. With the help of College Automation System we can gather all the useful information needed to the management in few clicks. To overcome the problem of manual system we have developed this system. College Automation System consists of different modules such as student, faculty, admin etc. Our main purpose was to create a software which will manage the working of these different modules. The interconnectivity among modules reduces the time and workload to perform different operational task. The system minimizes paperwork and time needed to access student records.

II. EXISTING SYSTEM

In traditional class seating, student attendance record is one of the important issues to deal with any school, college and university. To keep the student attendance record valid and correct, the faculty staff should have a proper mechanism for maintaining or managing that attendance record on daily basis. Faculty staff may experience difficulty in both verifying and maintaining each students record in classroom environment on daily basis, especially in classes attended by a large number of students using paper work. Providing notes in written format will require paper work consuming lot of time. Student cannot view their

attendance daily therefore developing this system can overcome such problems. Keeping in mind disadvantages we have developed this website.

III. PROBLEM STATEMENT

Anusha V Pai[1] proposed an Attendance management system web service they have developing student attendance information management system. This system is developed for managing daily student attendance in colleges. We tried to create a system that is both informative and functional at the same time. This proposed system gives automated attendance of students. Typically student's attendance is marked by the lecturer manually which spends a lot of time you may note peculiarities. Geeta R. B.[2] proposed a Student Information system. This paper is aimed at developing a Student Information system that is important to either an educational institution or a college. This system may be used for monitoring attendance for the college. Students as well as staffs logging in may also access or can be search any of the information regarding college. Attendance of the staff and students as well as marks of the students will be updated by staff and head of department.

IV. METHODOLOGY

College Automation System is web based software. It regulates college management process completely.

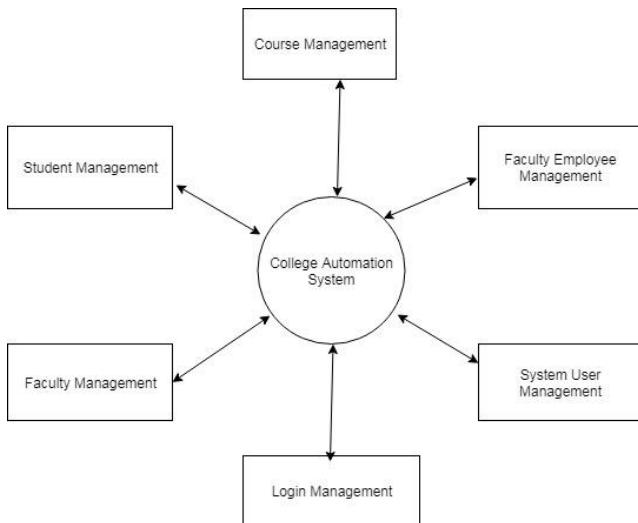


Figure 1: Block Diagram of College Automation System

Above block diagram stated gives short overview of College Automation System. It describes the interconnection between different modules.

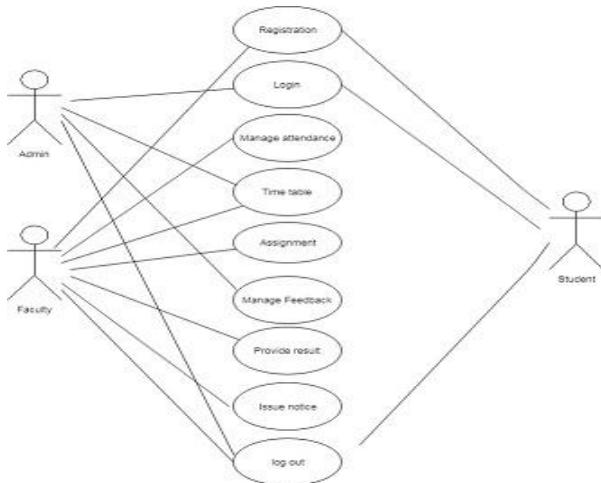


Figure 2: Usecase Diagram of College Automation System

Every user has its own username and password which is used for accessing the system. There are 3 important modules in our system. i.e. Admin, Staff, Student stated as follows.

A. Admin

Admin has to login first. All the activity of student information can be viewed and managed by admin itself. Admin will first add class and subject. He has to register for every students and staff creating there username and password. He can manage the accounts of all the students and staff. Admin will check the entire updates i.e student updates, faculty, exam updates. Admin has highest level of power in the college automation system. We have also introduced mailing system in which attendance will be mailed to every student on weekly/monthly basis. He will

also update the library status of every student according to due date, pending status etc.

B. Student

The student plays very important role in our system. Student will login into system by username and password created by admin. Student has access to personal profile, current attendance record, Class Tests marks notices. Student can view there library status. No registration for student will be created by them self. Student can update his/her profile. Student does not have fully access to system. Student has authority of changing password.

C. Staff

Staff has access rights to manage all the data of their subjects. They can manage daily attendance of all students of respective subjects and class. Assigned teacher has to enter the absent roll number and submit the record, accordingly remaining will be automatically marked as present. This is key factor of our system, which will reduce workload. Staff can update his/her profile, changing password. Staff can upload notes of particular subject with respect to class in pdf format. Staff will also provide result of unit tests. Head of department comes under staff module. Head of Department will assign teachers to particular subjects. He will upload departmental notices and prepare timetable. Head of department can view student details and staff details department wise. Head of department has similar rights that of teacher.

D. System Requirements

Hardware Requirements

- RAM: minimum 8GB.
- Processor: Pentium

Software Requirements

- C-Sharp
- .NET framework.
- SQL Server

V. RESULTS

The screenshot shows a web-based application for adding a new student. The title bar says 'Add New Student' and 'Admin Panel / Add New Student'. The form fields are as follows:

- Full Name:
- Gender: Male Female
- Date of Birth:
- Class:
- Roll No.:
- Academic Year:
- Address:
- Mobile No.:
- Email ID:
- Username:
- Password:
- Re-enter Password:
-

Figure 3: New Student Registration Page

On this page admin can register new student and give them user name and password for logging into the system.

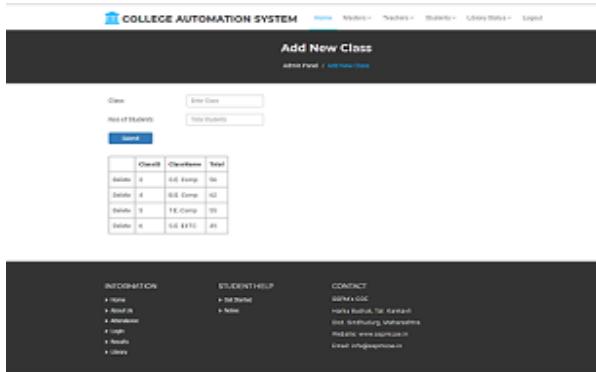


Figure 4: Add New Class page

On this page admin can add new class as well as total number of student of class.

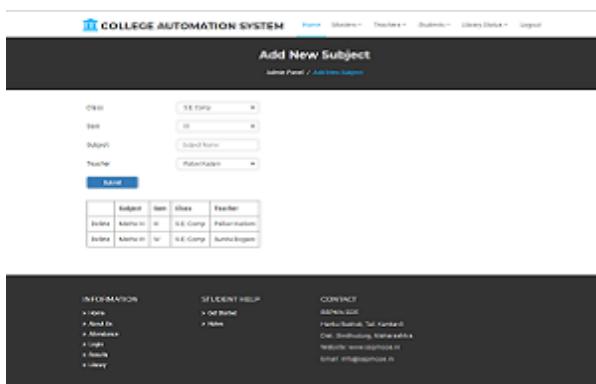


Figure 5: Add New Subject page

On this page admin can add new subject and add teacher to the particular subject.

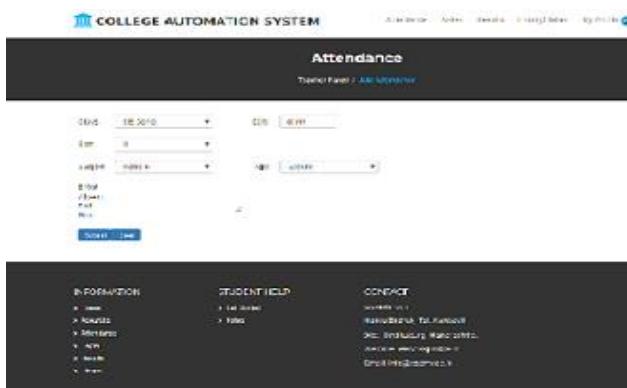


Figure 6: View Attendance page

On this page student as well as staff can view the attendance of the particular subject and overall attendance.

VI. CONCLUSION

In this paper Web based application for College Automation System is presented. The application offers reliability, time savings and easy control and handling. This application used student, faculties, librarian, and head of

department as well as admin so it make easy to handle and manage record/data. The proposed system provides the new way of computing and displaying operations with responsive and attractive user-interface.

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