College Automation System

Pooja S. Sharma  
Student  
Department of Computer Engineering  
K.C. College of Engineering & Management Studies & Research – Thane (E), India

Reshma R. Shetty  
Student  
Department of Computer Engineering  
K.C. College of Engineering & Management Studies & Research – Thane (E), India

Gayatri V. Yadkikar  
Student  
Department of Computer Engineering  
K.C. College of Engineering & Management Studies & Research – Thane (E), India

Prof. Dhanashri Kanade  
Professor  
Department of Computer Engineering  
K.C. College of Engineering & Management Studies & Research – Thane (E), India

Abstract

This paper is aimed at developing College Automation System which will manage the working of college management activity using single platform. This system has easy interface and powerful data management. We have used bootstrap which increases the responsiveness of the system. The main objective of this system is to reduce the paperwork and manual processing. 

Keywords: Automation, single platform

I. INTRODUCTION

College management is becoming a very essential component in education in this modern day age. With the help of College Automation System we can gather all the useful information needed to the management in few clicks.

College Automation System consists of different modules such as student, faculty, admin etc. Our main purpose is to create a software which will manage the working of these different modules. The interconnectivity among modules reduces the time to perform different operational task.

College automation system is the software which gathers the basic information of student automatically. This software manages the information about various users including faculties, information about subjects offered in various semesters; marks obtained by Students in different semesters and then generate a final report of each and every student.

We have used bootstrap which increases the responsiveness of the system. If in future we want to implement this system as the web based application or mobile application than because of bootstrap it will be easy and automatically screen will resolve according to that. The objective of our system is to reduce the paper work and to eliminate manual processes and to save significant staff time.

II. CONCEPT

College Automation System is the intranet based software which will help the students to take admission, view notices, view attendance and also staff to upload question bank, assignments etc. With the help of this system admin can easily maintain the records of many students without any paperwork.

Admin can find information about any student in few clicks.

We have given role based access to the system. Different roles are like student, faculty, admin etc. Every student and staff have username as email id and password with which he or she can access the system.

III. LITERATURE SURVEY

Half of the educational institutions in developing countries following the traditional method of managing information system with stand alone computer machines and store data in different departmental system due to lack of infrastructure. On these systems, the software implemented do not integrate processes and cannot interact to each other. In these kinds of system implementation no concept of service architecture being used.[1]

This system is aimed at developing an Online Intranet College Management System (CMS) that is of importance to either an educational institution or a college.[2]

College Enterprise Resource Planning System using RFID tags and to host the same on cloud. The main motive of the project is to provide full automation to the user.[3]

M-ERP application will integrate all the business functions like Recording attendance, Student information etc in a single system and database. M-ERP promising the possibility of convenient, easy and safe way to handle business functions of college.[4]

Some systems makes the module more efficient and platform independent application by using MVC design pattern. Due to use of MVC design pattern the presentation, business, database connection logic is separated from each other.[7]
IV. PROBLEM STATEMENT
In Existing System for managing various modules such as Student module, Administrative module and Exam cell etc. takes lot of paper work as well as time.

In Student module at present there are various things which includes paper work such as admission form, Notice Board, Revaluation form, Exam time table, Feedback etc.

In Administrative module Exam Form, Concession Form, Accounts and updation details, Profile views, Fees details, ID card generation all are very difficult to manage using manual processes and it takes lot of time and paper work.

V. PROPOSED SYSTEM
In Our System we are providing role based accessed rights to different users, many logins are created for the user based on their access rights.

By this proposed system all the Forms, Notices, Admission forms, Class test marks, Attendance list etc. can be viewed from single system at any time. Thus it will reduce the time and preserves the workload and each student can able to see their report by just login profile.

All the details regarding exam cell marks of each student are kept in single System with additional security so that the only authorized person can access that system and notice related to exams for students are directly put to the student portal.

VI. WORKING PRINCIPLE
Our System manages the three most important module of any college management system which is Student, Staff and Admin. The system is given a role based access every user is having username and password which is used for accessing the system.

A. Student
Students are admitted by admin only to the system. When he got admitted the username and passwords are generated by admin and can be managed by student afterwards. Student has access to personal profile, current attendance record, Class Tests records, Daily Class Routines and all the notifications and upcoming events which are managed by admin. One more important facility provided for students is to view the notification of his/her respective.

B. Staff
Staff has access rights to manage all the data of their subjects of respective class. They can manage daily attendance of all students of respective subjects and classes. Staff members are able to give notifications and can upload some documents related to their respective subjects. Staff can generate the daily, monthly or yearly report of individual student as well as class. Mark sheet generation and time table generation facility is also available for staff. Instead of manual work this application gives automatic work department.

C. Admin
Admin can manage the accounts of the all the students and staff. All the logs of student information can be view and manage by Admin itself. Admin can also upload notices regarding admission forms etc. Admin can view all the students and approve.

VII. TECHNOLOGY
Our System consist of different modules such as Student module, Administrative module, Staff module etc. For front-end we are using php, css, javascript and for back-end we are using mysql. We have also used bootstrap which increases the responsiveness of the system.
VIII. IMPLEMENTATION

Fig. 2: This is Home page for College Automation System.

Fig. 3: This is Registration form for Student.

Fig. 4: This is Login page for student.
Fig. 5: These are the attributes which can be accessed by the student.

Fig. 6: This is a railway concession form.

Fig. 7: This is a registration form for faculty.

Fig. 8: This is the login page for faculty.
Fig. 9: This are the attribute which can be accessed by the Faculty

Fig. 10: Here Faculty can Upload notices, attendance etc.

Fig. 11: This is Login page for Admin

Fig. 12: This are the attribute which can be accessed by the Admin
Fig. 13: Here Admin can view Student Detail and Approve.

Fig. 14: Here Admin can Upload notices, attendance etc.

**IX. FUTURE SCOPE**

It is more efficient and convenient for the colleges. It reduces the man power needed to perform different tasks by reducing the paper works needs. If all the works are done by computer there will be no chance of errors. Moreover storing and retrieving of the information is easy, so work can be done speedily and in time.

Features:
- User friendly
- Very less paper works
- Computer operator control
- Responsiveness increases

**X. CONCLUSION**

By using Existing System accessing information from files is a difficult task and there is no quick and easy way to keep the records of students and staff. Lack of automation is also there in the Existing System.

The aim of Our System is to reduce the workload and to save significant staff time. This System provide the automate admissions no manual processing is required.

This paper assists in automating the existing manual system. This is a paperless work. It can be monitored and controlled remotely. It reduces the man power required. It provides accurate information always.. All years together gathered information can be saved and can be accessed at any time. The data which is stored in the repository helps in taking intelligent decisions by the management providing the accurate results. The storage facility will ease the job of the operator. Thus the system developed will be helpful to the administrator by easing his/her task providing the accurate results. The storage facility will ease the job of the operator

**ACKNOWLEDGEMENT**

This research paper is made possible through the help and support from everyone, including: parents, teachers, family, friends, and in essence, all sentient beings. Finally, we sincerely thank to our project guide, project co-ordinator, parents, family, and
friends, who provide the advice and financial support. The product of this research paper would not be possible without all of them. We also place on record, sense of gratitude to one and all, who directly or indirectly, have lent their hand in this venture.

REFERENCES


[4] Ravindrakumar Rajput, “Mobile Based College ERP System (M–ERP)” International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181 IJERTV4IS030550 www.ijert.org (This work is licensed under a Creative Commons Attribution 4.0 International License.) Vol. 4 Issue 03, March-2015


