

# COLLEGE ENTERPRISE RESOURCE PLANNING AUTOMATING SYSTEM

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*Abstract: This paper is aimed at developing College ERP System which will manage the working of college management activity using single platform. This system has easy interface and powerful data management. The main objective of this system is to reduce the paperwork and manual processing.*

*Index Terms - EPR, Data Management.*

## I. Introduction

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

College EPR consists of different modules such as Admin, Admission, Fees, Academics, Test & Exam, HR & Payroll, Transportation, Reports, Training & Placement, Library Management, Inventory Management, Alumni etc. Our main purpose is to create 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. 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 developed a web based application which increases the responsiveness of the system. In future we want to implement this system as mobile application.

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 ERP System is an internet based software which will help the students to take admission, receive messages regarding placement or any events related to college or department, view attendance and also staff to upload question bank, assignments, add attendance, add internal & exam attendance, add internal & exam marks 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. Hods, Principal and Management can view the entire details of the student, IA marks and Exam marks of all the semesters with a single click.

Role based access is given to the system. Different roles are like Student, Parents, Faculty (Teaching, Non Teaching, Hods, and Principal), Admin, Management (Chairman) etc.

Every student as Student ID or Email id or Phone Number as User Name and a password with which he or she can access the system.

Staffs have as Email id or Staff ID as username and a password with which he or she can access the system.

Parents have as Student ID prefixed with P as username and a password with which they can access the system.

### III. LITERATURE SURVEY

More than half of the educational institutions in developing countries are 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. This system is aimed at developing an Online Internet College ERP System (ERP) that is of importance to either an educational institution or a college.

The main motive of the project is to provide full automation to the user.

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

### 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, Placement details, Counselling form etc.

In Administrative module Exam Form, Maintaining Student Details, Profile views, Fees details, leave records, salary processing, 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. Different logins can be Students, Parents, Staff (Teaching and Non Teaching Staff), Hods, Principal and Management (Chairman). 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 to their 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.

All the semester IA and External marks details of students are updated in CERP, which can be viewed by the students in their login and also in Parents Login. Students will be receiving placement drive details once the drive details are updated in CERP by Placement Officer and students can show their dissent either by Registering to the drive or not accepting it.

### VI. WORKING PRINCIPLE

The CERP System manages the following important module of any college management system which is Admin, Admission, Fees, Academics, Test & Exam, HR & Payroll, Transportation, Reports, Training and Placement, Inventory Management, Library Management, Alumni.

The system is given a role based access every user is having username and password which is used for accessing the system.

**Student:** Students are registered to the ERP system using the Student Registration Tab. Various information's like Name in SSLC, Admission type, Student Rank, Parents Name, Student Phone Number, Parents Phone Number, Student and Parents Email id are captured during the student registration. When a student is registered to ERP system automatically the Student ID will be sent to student and parents, Student ID will be used as username and password for accessing the CERP system and the students can change the password in the first login. Student has access to personal profile, Internal Assessment records, Marks in all the semesters and all the notifications and upcoming events. Separate login is provided to Parents, Parents can login to the system using the Student ID with Prefix P and student ID as password.

### **Staff**

Staffs have access rights to manage all the data of their subjects of respective class. They can add 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. Assignment can be uploaded in Staff login which will be reflected in Student login, same things can be downloaded by students in student's login and upon the completion of assignment by a student same thing can be uploaded in student login and faculty can evaluate the assignment online and the marks can awarded online. Staff can generate the daily, monthly or yearly report of individual student as well as class. Teaching staffs have the provision to upload the IA marks, Exam marks; faculties can view the no of FCD, No of FC, No of SC in their respective subject. Instead of manual work this application gives automatic result. Staffs have the provision to apply leave. Staffs have the option of doing student counselling using the Counselling tab where the following information's are captured during the time of counselling( Attendance status , IA marks ) as on the date of Counselling.

### **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 the entire student's details using the View Student Details Tab, Admin has the provision to add exam time table and can also view the marks using the Student Exam Result Semester Wise tab. Admin can send SMS to parents, staff, and students using the Send Bulk SMS tab.

## **VII. TECHNOLOGY**

Our College EPR consists of different modules such as Admin, Admission, Fees, Academics, Test & Exam, HR & Payroll, Transportation, Reports, Training & Placement, Library Management, Inventory Management, Alumni etc.

## **VIII. 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.

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
- All the necessary information can be obtained by a click.

## IX. 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. Using the college ERP, all the necessary information of Stakeholders i.e student can be obtained by a click of Mouse button.

## REFERENCES

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