

# A Review on College Management System

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## Abstract

*This project is based on COLLEGE MANAGEMENT SYSTEM. College management system application provides the simple interface for maintenance of student information, staff information and college related information. It can be used by colleges to maintain the records of all students and different staffs of different department. The student module of application deals with all kind of student related details like student profile, result details, regular attendance details, assignment details. The faculty of particular department is responsible for updating the attendance of every student. also, the faculty has facility to submit request for leave.*

**Keywords:** *College CR Election, Department, Attendance, Leave, Assignment, Feedback, Notice.*

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## 1. INTRODUCTION

The college management system is developed by using the Web Application. The main aim of this project is to develop web application which covers the all the details of college like student profile, teacher profile, student profile, notice, student attendance, feedback. All the data related to college, staff and student is securely stored on database which is managed by the college administrator. The system utilizes the authentication, each sub activity has authentication allowing the authorised users to login in the system to create or update information in the particular activity. The staff can submit request for the leave thus reducing the processing time. The application reduced the time needed to access and deliver the student records to users.

College Management system is integrated web application that handles various academic or non-academic activities of college. The system can access by every students/faculties/employee of the college through internet mobiles with their username and password. Every user in college management system home page with their respective levels like student has the different level and teacher has the different level. Through that displayed menu user can access the different option of the application assigned him. The system college management system can be used to manage data of all type of education institute. It will support both stand alone and also networking environment. The application reduces as much as possible to avoid error while entering the data. No formal knowledge is needed for the user to use this application. thus, it provides user-friendly environment for everyone.

## 2. LITERATURE REVIEW

- **In 2021, “College Management System”, Srikant Patnaik, Khushboo Kumari Singh, Rashmi Ranjan, Niki Kumari** have established College management system assists in modifying the existing system to site-based system. This is a paperless work. It can be monitored and controlled remotely. It reduces the manpower required. It provides accurate information always. Malpractice can be reduced. All gathered and extra information can be saved and can be accessed at any time. The data which is stored in the project helps in taking intelligent and quick decisions by the management. So, it is better to have a Web-Based Information Management system. All the stakeholders, staff members can get the desired information without delay. This system is essential in the colleges/hostels and universities.[1]
- **In 2020, “College Management System”, Shike Sahiba, A.N. Ramamani** have introduced Web Application for College Management and Time Table Generation System is software developed for students, staff's daily timetable and director's schedule, invigilation's in collages. It facilitates to access particular

timetable for students, staff and invigilation slots, including director's schedule to conduct meetings. The information is sorted by the operators on user's request. By just a click on the mouse, the system will be able to produce the users' optima schedule report thus reducing the need for manual work which is prone to human errors and time consuming.[2]

- **In 2019, "Leave Management System", Kartika Dattarkar, Neha Hajar** proposed system with Application Online College Management System (OCMS) provides a simple interface for maintenance of student information. It can be used by educational institutes or colleges to maintain the records of students easily. The creation and management of accurate, up-to-date information regarding a students' academic career is critically important in the university as well as colleges. Student information system deals with all kind of student details, academic related reports, college details, course details, curriculum, batch details, placement details and other resource related details too. It will also have faculty details, batch execution details, students' details in all aspects, the various academic notifications to the staff and students updated by the college administration. It also facilitate us explore all the activities happening in the college, Different reports and Queries can be generated based on vast options related to students, batch, course, faculty, exams, semesters, certification and even for the entire college The placement officer is responsible for updating the placement related information like eligible criteria for a particular company, arriving date for the company which is coming for recruitment, the list of students who are eligible for attending the recruitment process. E-Library (also referred to as digital library) is a special library with a focused collection of digital objects.[3]

TABLE I  
A COMPARATIVE STUDY OF VARIOUS LITERATURE PAPER

Year	Author	Name of Paper	Technique Used
2021	Srikant Patnaik, Khushboo, Nikki Kumari.	College Management System	Android
2020	Kartiki Datarkar, Neha Hajar, Nidhi.	Online College Management System	Web Application
2019	Sheke sabina, A.N.ramamani	College Management and Time Table Generation System	Web Application

### 3. ARCHITECTURE

There are three functional component of this system i.e the admin, the student and the employee. Both employee and student need to login in order to access the information. In this system admin has highest priority. Main functionality of admin is to add the employee and manage the database dashboard. Admin gives the login credential to the employee. Main functionality of student is to register the account and login into system. After the login student has the various menu to do the task related their profile like view notification, view assignment, view their progress. Employee module has further divided into submodules the main functionality of employee module is login to system and do the task related their profile like teacher profile has task related teaching while hod profile has task related department and so on.

### 4. MODULES

The System is implemented in java and consist of three modules:

**1.Admin Module -:** This is the main module in our college management system. It plays very important role in the college management system. This module contains the main registration part of the employee in the college system. This is main task in our system because it is necessary to maintain the security. Admin create the accounts of employee using their email address and password. This account created are stored according to their department and designation. Admin have the highest priority in our college management system. Admin have the all access of the database. They have permission like view the information, edit the information, delete the information etc.

**2. Employee Module -:** The registration part of employee in college management system done by the admin. This module only contains the login part with their email id and password that are provided by admin. The system has facility to forgot their password. This module is further divided into submodule with their designation of employee in college. The submodule are as follows:

a. Teacher Module

b. HOD Module

**a. Teacher Module :-** After the login they have different sections like profile section, assignment section, notification section, leave section and attendance section. Teacher can upload the assignments or delete the assignments. Also, they take the attendance of student of particular class. They give the notification to the student related to department or college. Whenever they need a leave, they give the leave application to head of department.

**b. HOD Module :-** After the login the head of department contains the same options like teacher module along with that, they contain extra options because they play both role as a teacher and as a HOD. The extra options are like manage the record of department, manage the timetable of classes, accept the leave application from teachers and send to the principle for approving.

5. RESULT

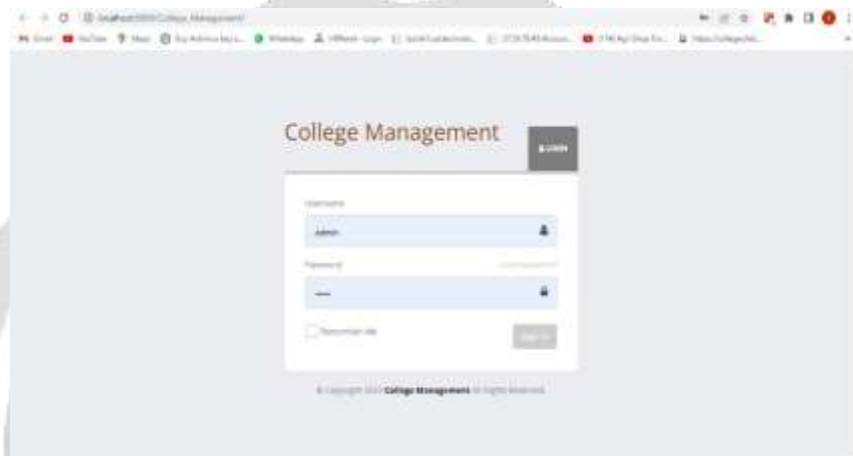


Fig.1. Main Screen



Fig. 2. Admin Login Screen

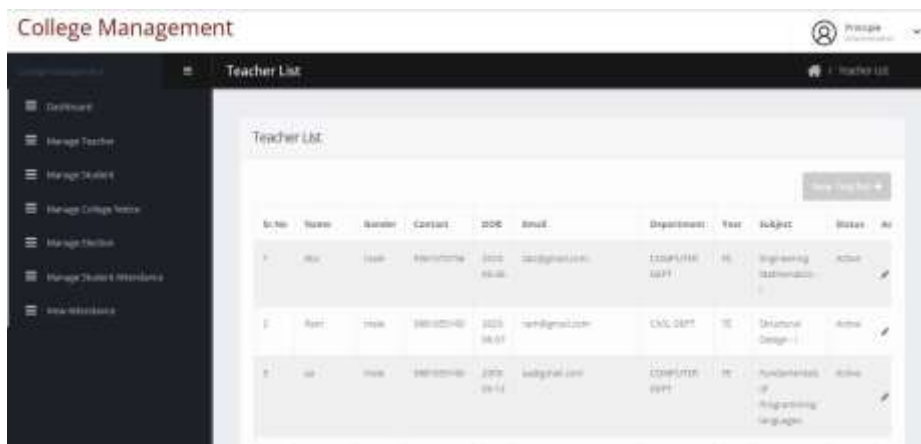


Fig. 3. Admin panel Screen

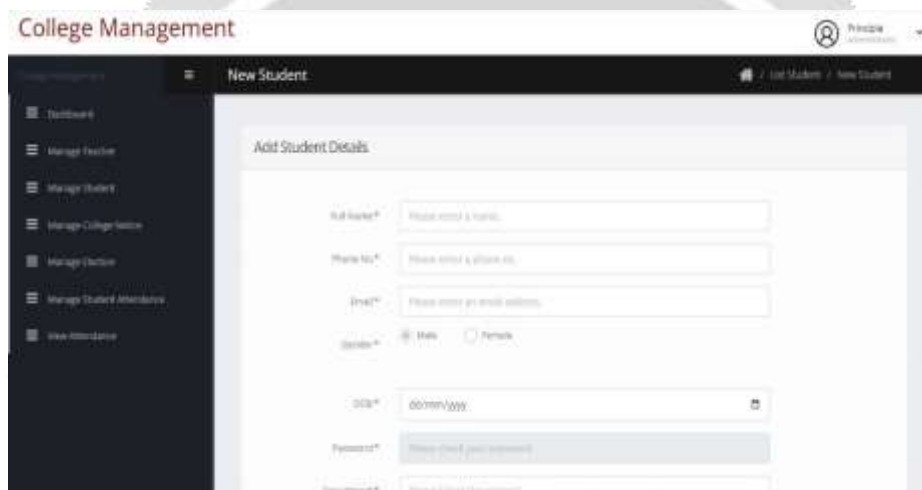


Fig. 4. Admin panel Screen

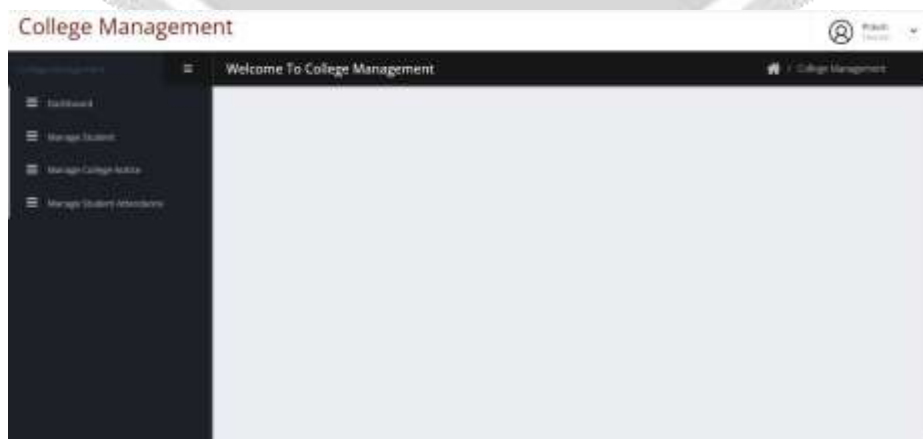


Fig. 5. Teacher panel Screen

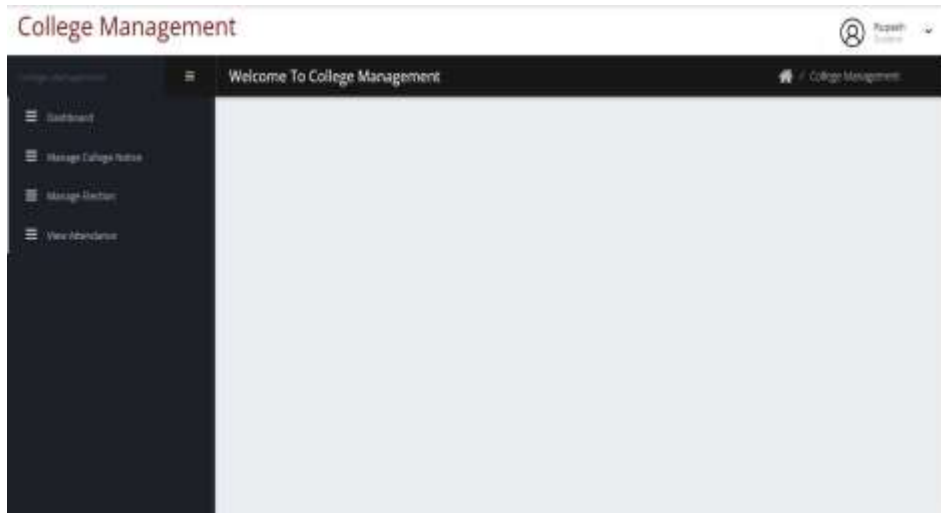


Fig. 6. Student Login Screen

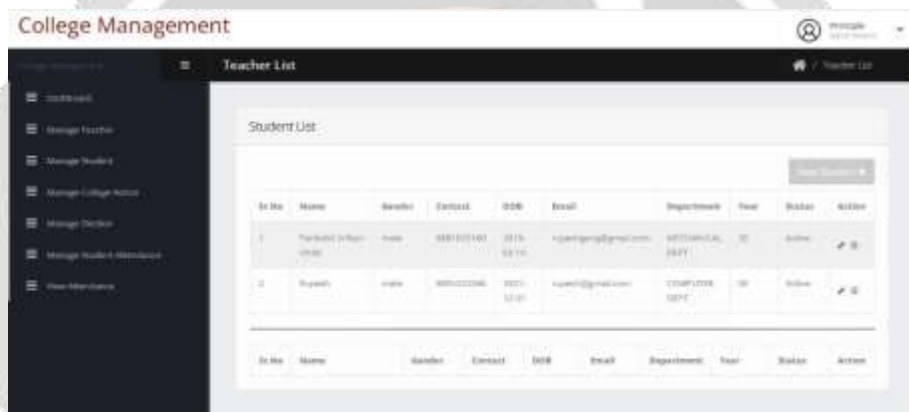


Fig. 7. Teacher panel Screen

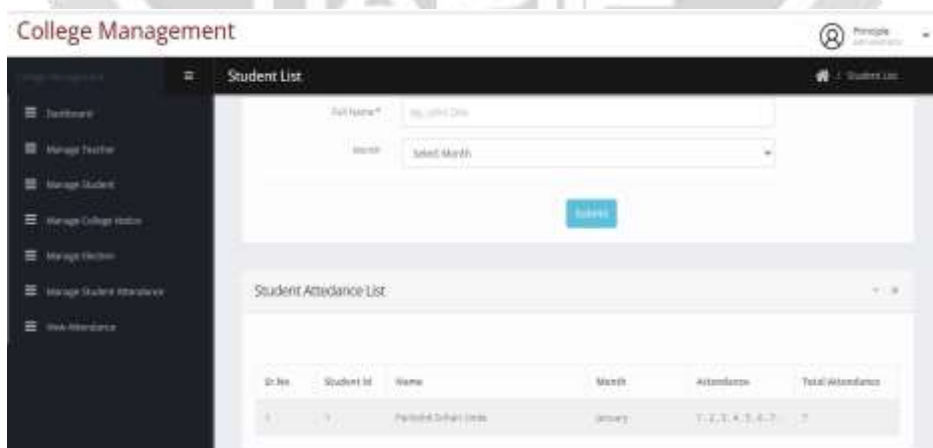


Fig. 8. Teacher panel Screen

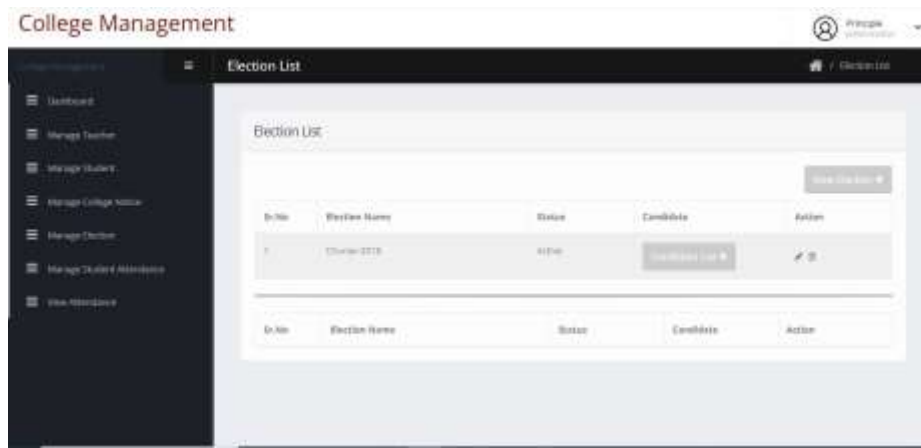


Fig. 8. Teacher panel Screen

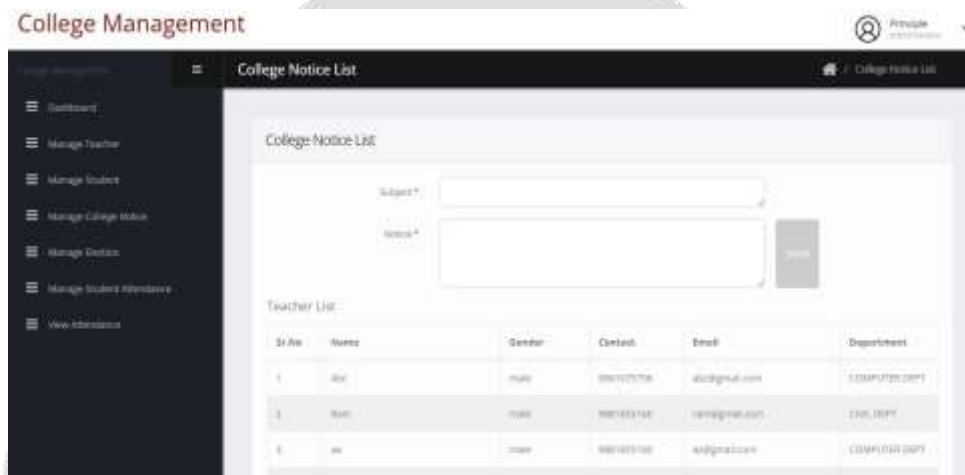


Fig. 10. Student Notice Screen

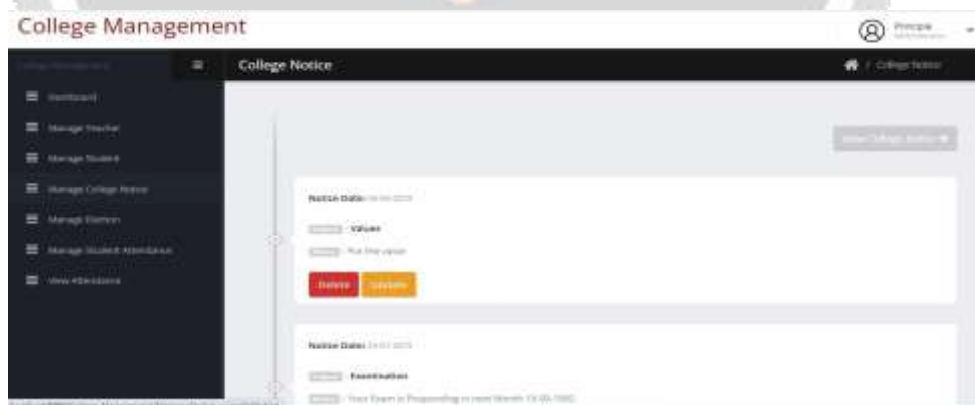


Fig. 11. College Notice Screen

## 6. CONCLUSION

The project as College Management System is the system that deals with the issue related manual college management system. This project is successfully implemented with all the features required for college.

The application provides appropriate information to user according to the chosen activity. The project is designed keeping in view the day-to-day problem faced by a manual college management system. Deployment of our College Management System help the college to reduce unnecessary wastage of time in doing work using manual college management system.

The system is user-friendly, highly interactive and flexible for further enhancement. The system generates the reports as when required. The coding is done in a simplified and understandable manner.

## 7. REFERENCES

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