

---

**A RESEARCH PAPER ON COLLEGE MANAGEMENT SYSTEM****Vaishnavi Patel<sup>\*1</sup>, Sakshi Bhagwat<sup>\*2</sup>, Shreya Ashtikar<sup>\*3</sup>,****Sakshi Kumbhare<sup>\*4</sup>, Sharayu Deote<sup>\*5</sup>**

<sup>\*1,2,3,4</sup>Student, Computer Engineering, Cummins College of Engineering for women, Nagpur,  
Maharashtra, India.

<sup>\*5</sup>Professor, Department of Computer Engineering, Cummins College of Engineering for women, Nagpur,  
Maharashtra, India.

DOI : <https://www.doi.org/10.56726/IRJMETS36362>

---

**ABSTRACT**

This paper is aimed at developing an Online Intranet College Management System(CMS) that's of significance to either an educational institution. The system(CMS) is an Intranet grounded operation that can be penetrated throughout the institution or a specified department. This system may be used by students as well as teachers. students as well as staff logging in may also pierce or can search any of the information regarding college. This system (C.M.S) is being developed for an engineering college to maintain and grease easy access to information. For this the Students must be registered with the system after which they can pierce as well as modify data as per the warrants given to them. This system can be used as a knowledge/ information operation system for the college. For a given pupil/ staff(specialized/Non-technical) can pierce the system to either upload or download some information from the database.

---

**I. INTRODUCTION**

"College Management System For College" (Cms) is the name of the project. CMS is characterized as an intranet-based program that provides information to all levels of management inside an organization. The college can utilize this system as an information management system. The Administrator creates a login id and password specifically for a specified student or staff member (technical or non-technical). Using these, students or staff members (technical or non-technical) can access the system and upload or download data from the database. All business logic will be in Java at the middle layer, while the front-end will be HTML pages for client-side validation with Java Script. A web server must be started because the third layer of the database will interact with these layers. The college management system offers assistance to educational institutions, particularly colleges, in a number of ways, including data storage, student profile upkeep, analysis of administrative and academic data, enhanced communication, and student engagement. The system was created and put into operation to serve institutes and colleges. The system will replace the current paper records by offering a thorough student information system and user interface. College employees post college notifications using a safe online interface provided by admin. How the college manages a student's admission is described in the student admission management module. Every course that the college offers will have its subjects assigned by the courses and subject management module. The college administration has access to and can keep track of the student's information.

**II. METHODOLOGY**

In order to integrate external libraries, local jar files, or other library modules in our Android project, we must first add the necessary dependencies. The application's user interface was then created in the xml. I have written every function in Main Activity Java that will assist the user in opening specific tasks. The Administrator creates a login id and password specifically for a specified student or staff member (technical or non-technical). Using these, the student or staff member (technical or non-technical) can access the system and upload or download data from the database. Not only will this additional user learn about events and extracurricular activities taking place on the college campus.

The main menu will contain six parts which are as follow:

- Student Login
- Teacher login
- Notice Board

- Previous Year Papers
- About Us
- Contact us

## **2.1 SCOPE FOR DEVELOPMENT OF THIS PROJECT**

The requirement of the user is to:

- Access/ Search information.
- Login to the system through the first page of the application.
- Change the password after logging into the system.
- View/change his/her details.
- Designed and implemented to provide service in institutes and colleges.
- Students can access previous year question paper.
- An admin login should be present who can read as well as remove any uploads.

## **2.2 OVERVIEW OF DOCUMENT**

This paper outlines the product's specifications and limitations. It offers an overview of the project that is mostly non-technical and geared towards outside audiences. Information like data needs, functional requirements, and a broad overview of the product and how it interacts with users from the client's point of view are all included in this section. For an internal audience, Section 3 presents particular technical needs as the team currently knows them. Information like the specifications for the software's external interface, performance, and other technical needs are all included in this part.

## **2.3 DESIGN FOR COLLEGE AND ADMIN USE**

The following list of fundamental ideas will help you create a customized mobile app for students and faculty. These concepts are illustrated using Android.

### **2.3.1 USER EXPERIENCE / USABILITY**

Having a positive user experience is one of the best methods to judge a product's success [12–13]. The user experience refers to how a person feels while utilizing a system, product, or service. The experienced, emotive, meaningful, and worthwhile elements of human-computer interaction are highlighted by user experience. User experience, as the name suggests, put the user first. Android phones have unique Human Interface Guidelines, which outline the rules and concepts that assist developers in creating an excellent user interface and a positive user experience for an android app, as an example of a touch screen device's user experience. These recommendations are focused on creating apps for sighted users. User experience quality is referred to as usability.



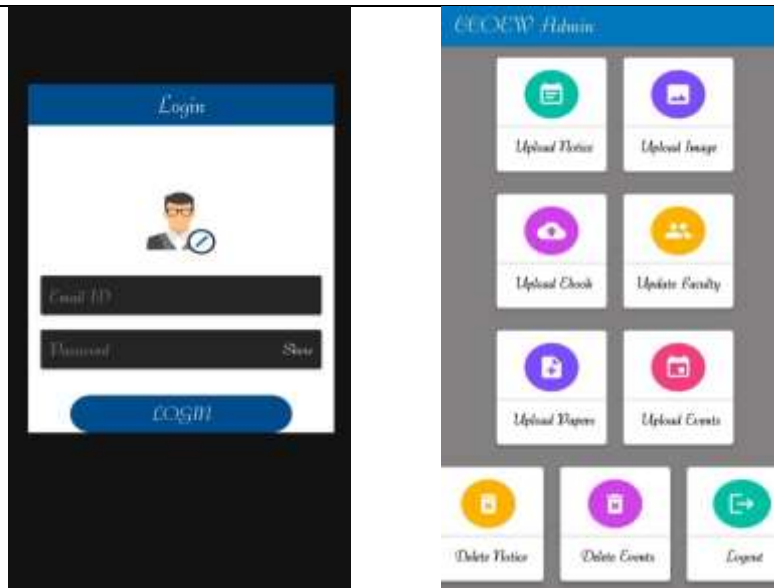
**Figure 1.** Android

## **2.4 FEATURES**

**Basic Features:**

**Advance Features:**

- Admin Previous Year Exam Papers
- Registration/Login E-books
- Notice Upcoming Events
- Notifications
- College gallery
- Library facility



Admin login Admin Menu Bar

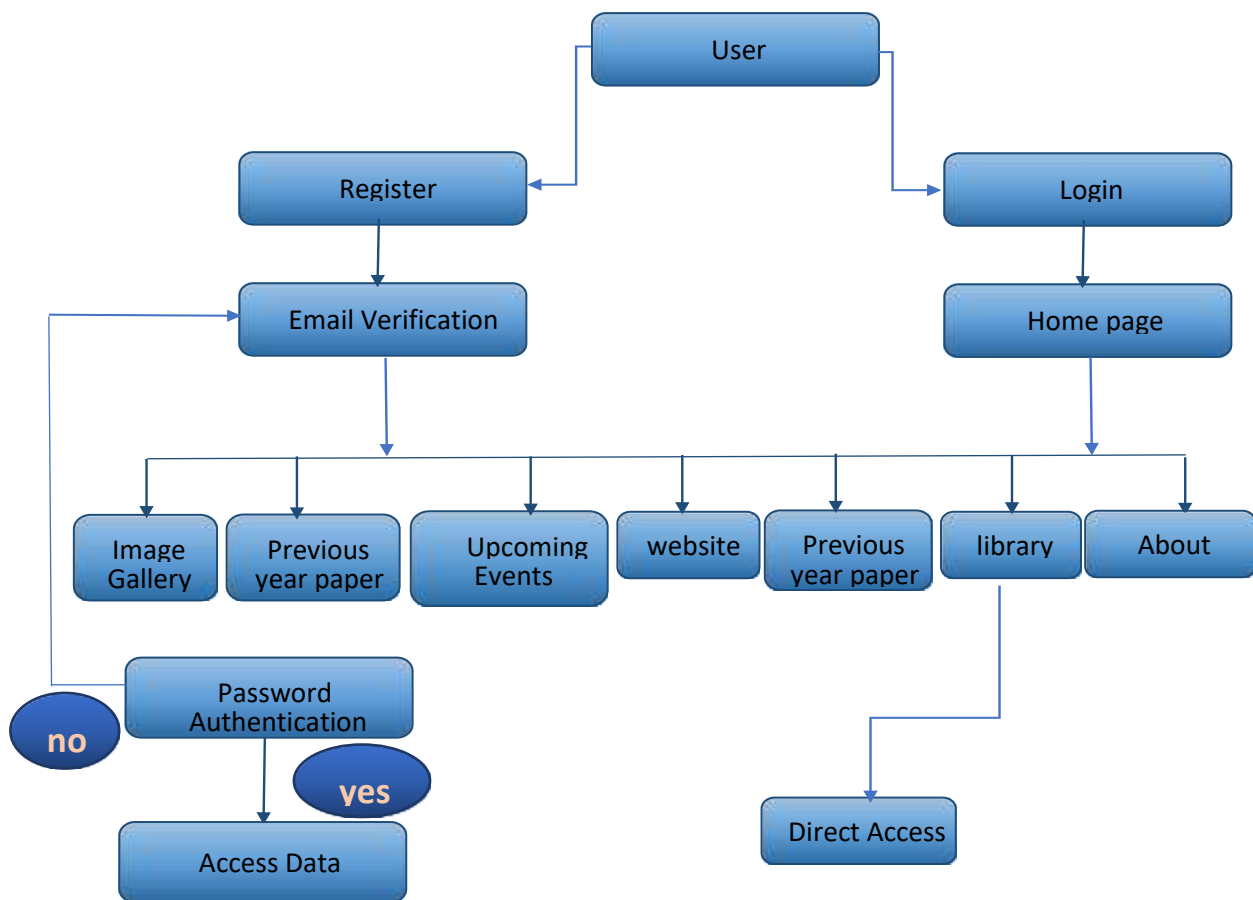


College Information Menu Bar

## 2.5 SYSTEM ARCHITECTURE:

The system proposes the following applications:

1. Library: students can borrow/return
2. Previous year exam paper: This allows to search previous year exam papers.
3. Results: This contains the internal/external marks of a student.
4. Registration/Login: Student or faculty can register or login.
5. Notification: Students can get current Notification.
6. E-books: Students can find books.
7. Upcoming Events: Students can get notified with upcoming events.



College Application DFD

### III. CONCLUSION

The system that handles problems relating to a certain institution is the project called College Management System. This project has all the features outlined in the system requirement specification, and it has been effectively implemented. The program gives consumers the right information based on the service they have selected. The initiative was created with the day-to-day issues that college students encounter in mind. .

### IV. REFERENCES

- [1] D B Heras, D. Otero, and F. Arguello, "An eco-feedback system for improving the sustainability Performance Of universities," in Proc. 2011 IEEE International Conference on Virtual Environments Human -Computer Interfaces and Measurement Systems, Ottawa, ON 2011 , pp. 1 – 6
- [2] Y Wang, B Y Sun, and F Cheng, "Electronic document – based process model for image archives in universities," in Proc. 2011 International Conference on Information Technology, Computer Engineering, and Management Sciences , Nanjing, Jiangsu , pp. 57– 60.
- [3] X. X. Xin, R. M.Wu, and H. H.Li, "A framework model of the e-campus management system based on SOA," in Proc.2009 International Conference on Computational Intelligence and Software Engineering Wuhan, 2009, pp.
- [4] S. Jeyalatha, B. Vijayakumar, and G.S. Wadhwa, "Design and implementation of web based application for relational data maintenance in an university environment," in Proc. 2011 International Conference and Workshop on Current Trends in Information Technology , Dubai, pp. 105-112.
- [5] M-H.Lee, C -J.Yoo and O.-B.Jang, "Embedded System Software Testing Using Mobile Service Based On SOA", IJAST, vol. 1, (2008), pp. 55-64.
- [6] Ming-Syan Chen, Jiawei Han, Philip S yu. Data Mining: An Overview from a Database Perspective[J]. IEEE Transactions on Knowledge and Data Engineering, 1996, 8(6):866-883.
- [6] Advanced Embedded System Assisted GsmAndRfid Based Smartschool Management System.V.

- 
- Sivasankaran, S. Muruganand, Azha.Periasamyinternational Journal Of Advanced Research In Electrical, Electronics And Instrumentation Engineering Vol. 2, Issue 7, July 2013.
- [7] An Efficient Automatic Attendance System Using Fingerprint Reconstruction Technique.Josphineleela.R Research Scholar Department Of Computer Science And Engineering .
- [8] Rakesh Agrawal, Sakti Ghosh, Tomasz Imielinski, Bala Iyer, Aran Swami. An Interval Classifier for Database Mining Applications[M]. CLDB92. Vancouver, British Columbia, Vanada, 1992:560~573.
- [9] J Han, Y Cai, N Cercone. Knowledge Discovery in Database: An Attribute-Oriented Approach [M]. VLDB 92, Vancouver, British Columbia, Canada,1992:547-559.