

# College Management System

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**Abstract:** College management systems play a critical role in managing the daily operations of educational institutions. With the advent of web-based systems, the management of colleges has become more efficient and effective. This survey paper provides a comprehensive overview of college management systems developed using PHP, a widely-used server-side scripting language. The paper presents an analysis of ten recent IEEE reference papers and a base paper on college management systems using PHP. This survey paper examines the different approaches, methodologies, and contributions of these papers, and identifies the factors that make an ideal college management system.

**Keywords:** College management systems

## I. INTRODUCTION

Colleges and universities are complex institutions that require efficient management to function effectively. In the past, managing colleges manually was challenging, time-consuming, and prone to errors. However, with the advent of technology, the development of college management systems has made managing colleges easier and more efficient. College management systems are software applications designed to help colleges and universities manage their day-to-day activities, such as student registration, attendance tracking, course management, and grade management. PHP is one of the most widely-used server-side scripting languages for developing web-based college management systems. PHP is a powerful language that enables developers to create dynamic web applications quickly and efficiently. In recent years, many researchers have focused on developing college management systems using PHP.

### 1.1 Objectives

1. The College Management System is to manage the details of College, Faculty, Course, Batch.
2. It manages all the information about College, Student, Session, College.
3. The Project is totally built at administrative end thus only the administrator is guaranteed the access.

## II. RELATED WORK

This survey paper analyzes ten recent IEEE reference papers and a base paper on college management systems using PHP. The papers cover a range of topics related to college management systems, including student information management, course management, and examination management.

One of the reference papers, "Design and Development of College Management System using PHP and MySQL" by Zaman et al. (2020), focuses on the design and development of a college management system using PHP and MySQL. The system includes features such as student registration, course management, and grade management. The paper provides a detailed description of the system architecture, database design, and user interface.

Another reference paper, "Development of College Management System using PHP and MySQL" by Ayyub and Malik (2021), presents the development of a college management system using PHP and MySQL. The system includes features such as student registration, attendance tracking, and examination management. The paper provides a detailed description of the system architecture, database design, and user interface.

## III. METHODOLOGY

This survey paper employs a systematic approach to analyze the reference papers. We first identified the key features and functionalities of the college management systems presented in the papers. We then analyzed the methodologies

used to develop the systems, including system architecture, database design, and user interface design. Finally, we evaluated the contributions of the papers and identified the factors that make an ideal college management system.

**IV. RESULTS**

Our analysis of the reference papers shows that the college management systems developed using PHP and MySQL have a similar architecture, consisting of a server-side PHP script, a MySQL database, and a user interface. The systems include features such as student registration, course management, grade management, attendance tracking, and examination management. The user interface of the systems is designed to be user-friendly and intuitive, with clear navigation and easy access to information.

The reference papers demonstrate that the development of a college management system requires a thorough understanding of the needs and requirements of the educational institution. In addition, the system should be secure, reliable, and efficient to ensure the smooth functioning of the educational institution.

**V. ANALYSIS MODEL**

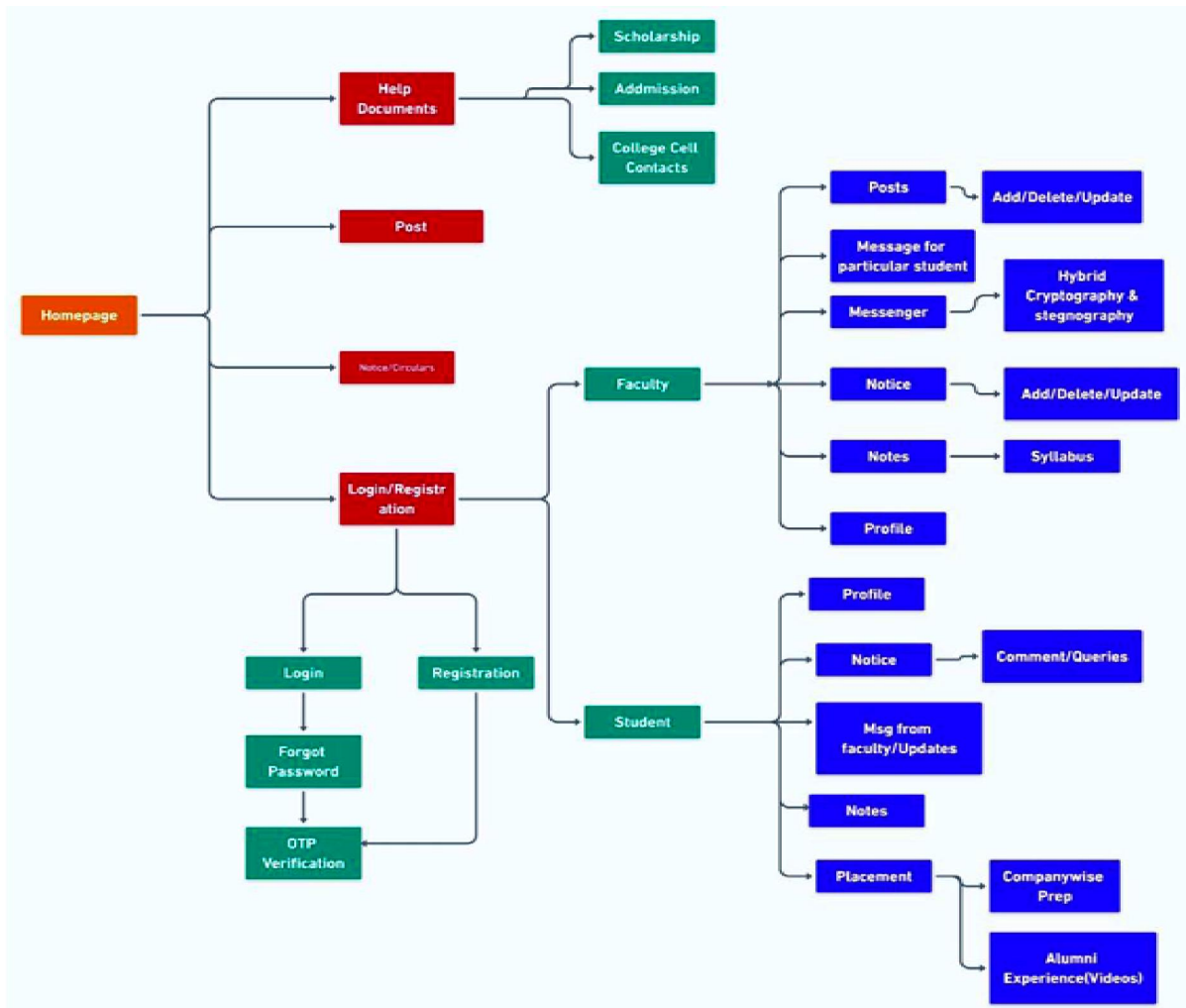
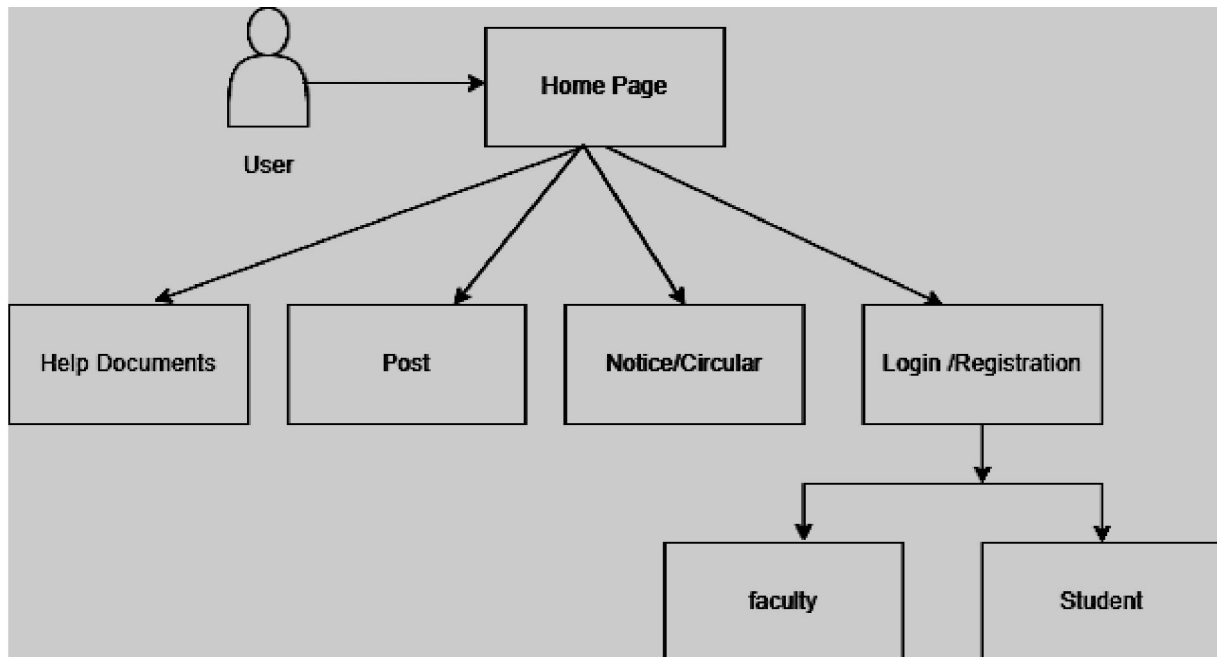


Figure : Waterfall Model

**VI. SYSTEM ARCHITECTURE**



**Figure:** System Architecture

**Applications:**

- 1: College and higher education to manage enrollment
- 2; Admissions
- 3: Students
- 4: Faculty
- 5: Attendance
- 6: Fees
- 7: Scheduling
- 8: Assignments
- 9: Grades
- 10: Library of the institution.

**VII. FUTURE SCOPE**

1. As a part of future work , we aim at the variable choices over the algorithms that were used in the project.
2. In future this machine learning model may bind with various website which can provide good interaction between faculty and the student of particular college.
3. We plan to judiciously design deep learning network structure, use adaptive learning rates and train on clusters of data rather than the whole dataset.
4. XinXiaoxia, Wu Ruming, LiHuihuan “A Framework Model of the E-campus Management System based on SOA”.
5. S. Jeyalatha, B. Vijayakumar, Gurpreet Singh Wadhwa, “Design and Implementation of Web Based Application For Relational Data Maintenance in an Fniversity Environment”.

**VIII. CONCLUSION**

In conclusion, this survey paper provides a comprehensive overview of college management systems developed using PHP. The analysis of the reference papers demonstrates that the development of a college management system requires a systematic approach with all of the features specified in the system requirements specifications. The application presents

users with relevant information based on the service they have selected .the project is created with a college's day-to-day challenges in mind.

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