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College Management System (Edumaat) Using Java

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ABSTRACT: This process is based on COLLEGE MANAGEMENT SYSTEM. College management system is helpful for students as well as the colleges. In the existing system all the activities are done manually. It is very time consuming. It manage the college information, student information, Communication management Attendance management and various different types of event going on in our college. In our proposed system, The data will be stored in the college server. To store the data SQL server will be used. The Admin, Faculty or the student should be a register user.

KEYWORDS: Notifications; Education System; Database; Browser, college management, information system, document management system etc. All the record stores in MySQL Database. The proposed software will also reduce the cumbersome paperwork, manual labour as well as communication cost.

I. INTRODUCTION

In today's digital era, educational institutions face numerous challenges in managing their daily operations effectively. Traditional manual methods of managing administrative tasks often lead to inefficiencies, delays, and inaccuracies. College Management Systems have emerged as a powerful tool to overcome these challenges, enabling colleges and universities to automate routine processes and streamline their operations.

This paper presents a College Management System (EDUMAAT) developed using the Java programming language. The CMS aims to provide a centralized platform that integrates various modules to handle essential functions such as student Attendance, Marksheet Report, Chat , Notification ,Assign Subject, Faculties. By leveraging the capabilities of Java, the system offers scalability, reliability, and flexibility to meet the diverse requirements of educational institutions.

II. RELATED WORK

In this paper, this paper is aimed at developing an Online Intranet College Management System (CMS) that is of importance to either an educational institution or a college. The system (CMS) is an Intranet based application that can be accessed throughout the institution or a specified department. This system may be used for monitoring attendance for the college. Students as well as staffs logging in may also access or can be search any of the information regarding college. Attendance of the staff and students as well as marks of the students will be updated by staff. This system (C.M.S) is being developed for an engineering college to maintain and facilitate easy access to information. For this the users must be registered with the system after which they can access as well as modify data as per the permissions given to them.[1]

In this paper, this project is based on College Management System. It manages the college information, student information, placement information, various different types of events going on in our college. It also keeps track records of all the information regarding students those who are placed in the various organization This system can be used as a knowledge/information management system for the college. For a given student/staff (technical/non-technical) can access the system to either upload or download some information from the database. [2]

In this paper, 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, batch details, result details, attendance details, progress details. It will also have the various academic notification to the all staff and student updated by college administration. The faculty of particular department is responsible for updating the assignments, updating the attendance of every student, updating the notification related to department. Also the faculty has facility to submit request for leave. [3]

In this paper, Breeze is a new Android Application which provides a common, easy to use platform for college students for better interaction with fellow students, faculty and administration. This work has unique and helpful feature of queries, where students can put up their queries and anyone can answer their queries. For keeping a check over inappropriate posts a feature of report is also provided which tells admin about inappropriate posts and actions could be taken over it accordingly. It also provides user a help option which helps user with any information regarding labs, faculty and lecture halls. Breeze also provides a platform where user can view daily updates of his attendance and syllabus. Breeze app works fluently as it is based on online database system firebase. It has secure login features, and also allows login through Facebook and Google. [4]

In this paper, In this paper, we propose a design for college student management system utilizing computer aided system, which can play an important role in college management. Firstly, we organize our proposed college student management System Thirdly, functional module design for college student management system is provided, in which three types of users are designed in this system, that is, students, teachers and managers.[5]

In this Paper, The College Management System Using Python Programming aims at maintaining the several documents of the students studying in an institution. The various details of the students relating to their personal information, tuition fees, library related information and information regarding their semester marks, are efficiently stored, organized and accessed through the respective Databases, thereby reducing the chances of discrepancies in the stored data. The project is implemented through Python Programming, by writing the source code in a Code Editor such as Visual Studio Code and the code gets automatically executed in a Runtime Environment.[6]

In this Paper, Smart College Management system is an android based application which is the new technical way to manage all department related jobs. Smart Collage management system is helpful for students as well as the colleges. In the existing system all the activities are done manually. It is very costly and time consuming. In our proposed system, students can view results using Android phones. The data will be stored in the college server. To store the data SQL server will be used. The Admin, Faculty or the student should be a register user. The faculty can login into their college account through the app itself and update the academic result like internal exam marks obtained by the students. In this system students have easy access for viewing the marks, The application will check user authentications. Students are not permitted to manipulate any data. [7]

The proposed work has three modules: A. Student B. Faculty C. Admin. In the student's module, students need to register their university registration number, college registration number, student name. Admin module maintains the student's marks of internal college exams. Other than this the advanced features are: In case of natural calamities such as floods, etc. Notification to students will be sent from admin office through app directly. Any new notice for a particular semester will be uploaded by professor through application notifying to respective semester students.



III. EXPERIMENTAL RESULTS

Figures [1] shows the results of Admin, Student, Faculty Login Secure login functionality for administrators using username and password. Implementation of authentication measures, such as password encryption and session management, to ensure system security.

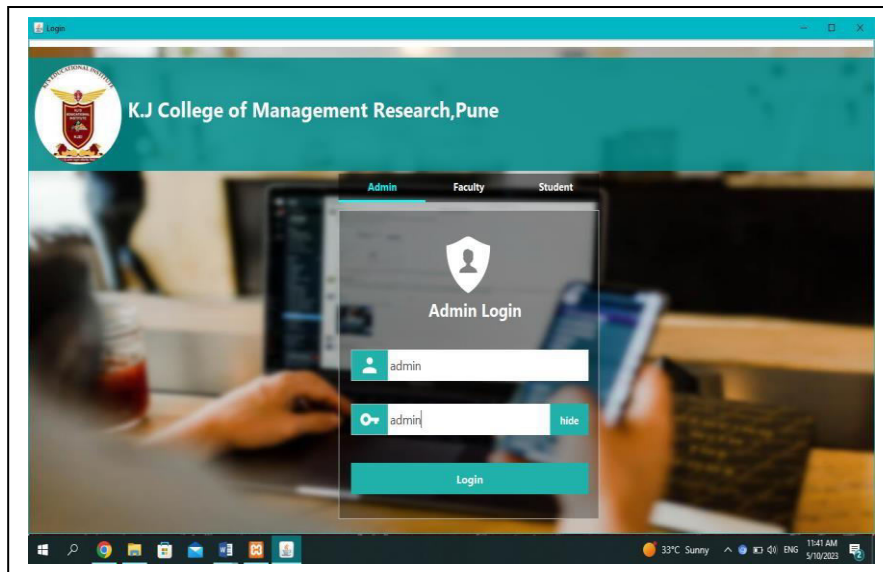


Fig.1.

Figures [2] Admin Module: for managing administrative tasks and system configurations.

Figures [3] Faculty Module: for faculty members to manage courses, assignments, grading, and research.

Figures [4] Student Module: for students to enrolment in courses, access materials, submit assignments, and viewgrades.

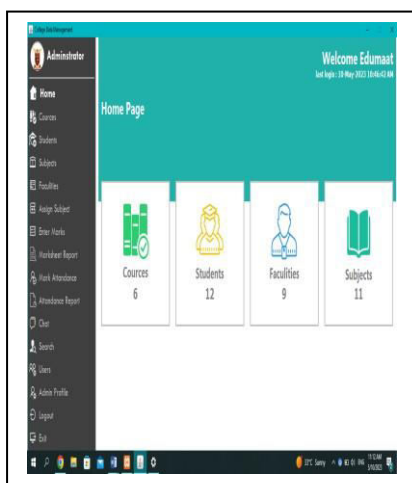


Fig.2



Fig.3

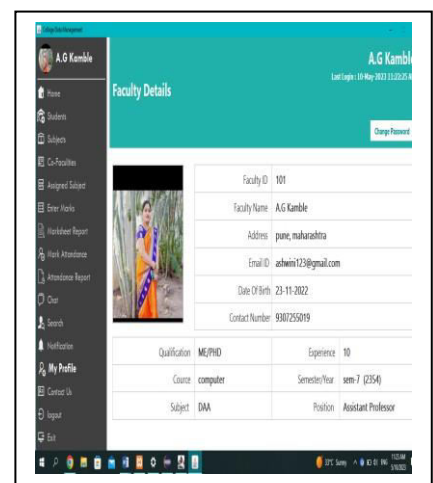


fig.4

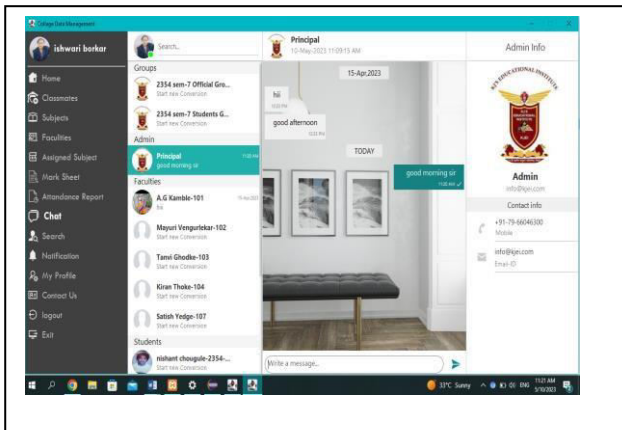


Fig. 5

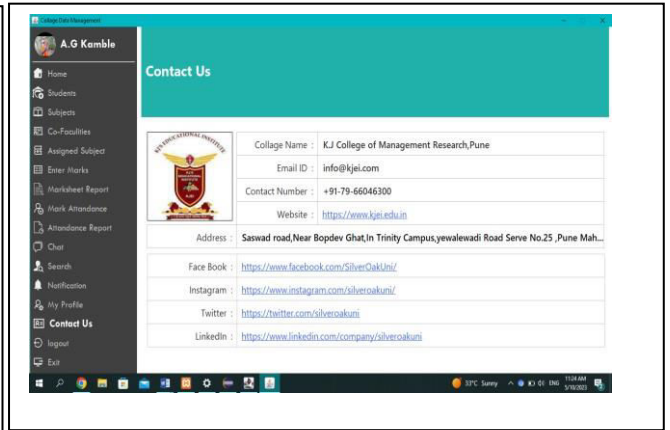


Fig.6

Figures [5] Chat Interface:
Design and develop a user-friendly chat interface that allows users to communicate in real-time. Include features like message history, notifications, and group conversations.

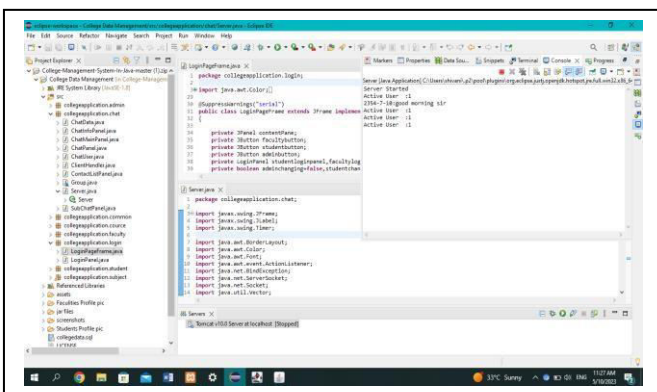


Fig.7

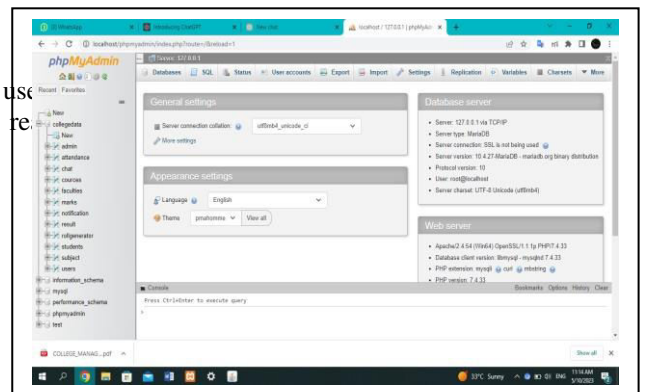


Fig.8

Figures [8] Here's an overview of the key components and tables that could be included in a CMS database:

Admin Table:

This table stores information about CMS users, including their unique identifier, username, password (hashed or encrypted), email address, and role (admin, faculty, student).

Student Table:

This table contains student-specific information, such as student ID, full name, date of birth, gender, contact details, and any other relevant personal information.

Faculty Table:

This table stores faculty member details, including faculty ID, full name, date of birth, gender, contact



information, qualifications, and other relevant information.



IV. CONCLUSION

The reviewed literature demonstrates the contributions of Java-based College Management Systems in automating administrative processes and improving efficiency in educational institutions. The works highlight various features, methodologies, and approaches that have been successful in addressing the complexities of college management. Researchers and developers can build upon these foundations to further advance CMS solutions using Java, considering emerging technologies and evolving needs of educational institutions.

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