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SURVEY ON UNIFIED CAMPUS PORTAL SYSTEM

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ABSTRACT: The goal of our Campus Portal System is to provide an integrated web platform designed to streamline academic communication and management within an educational institution. This system addresses the existing challenges faced by students, teachers, and Heads of Departments (HODs) by consolidating diverse functionalities into a single, user-friendly interface . Our platform addresses the challenges faced by students and college faculties to share the announcements, notices, etc and to maintain the students academic records, and to track the attendence records of students. The system automates attendance tracking, providing real-time insights into students' attendance records. An intuitive interface allows teachers to efficiently manage and update attendance records. To address the issue of low attendance, an automated alert system is implemented. Students with attendance below 75% trigger notifications, sent via SMS or email, to both the concerned student and their designated emergency contact. By consolidating these features into a single platform, the Campus Portal System aims to enhance collaboration, transparency, and efficiency in academic management, ultimately providing a more enriching educational experience for all stakeholders.

KEYWORDS: Centralized Communication Platform

I. INTRODUCTION

In the ever-evolving landscape of education, the effective management of academic information is paramount for fostering a seamless and enriching learning experience. Recognizing this, our Campus Portal System emerges as a dynamic solution, designed to revolutionize the way academic communication and management are conducted within educational institutions. This integrated web platform is meticulously crafted to address the existing challenges faced by students, teachers, and Heads of Departments (HODs), offering a unified, user-friendly interface to streamline diverse functionalities.

The multifaceted challenges encountered by students and faculty members in sharing announcements, notices, and maintaining comprehensive academic records underscore the need for a cohesive and efficient system. Our Campus Portal System not only serves as a centralized hub for disseminating information but also caters to the intricate task of managing students' academic records and tracking attendance.

Our Campus Portal System tackles communication challenges with an Integrated Communication Platform, consolidating functions for announcements and notices. Automated Attendance Tracking offers real-time insights, while an efficient interface empowers teachers in attendance management. An Automated Alert System notifies students and emergency contacts of low attendance, fostering timely interventions. This holistic approach enhances collaboration, transparency, and efficiency, providing a seamless and enriching educational experience for all stakeholders.

II. IMPLEMENTATION DETAILS

Implementation is the realization of an application, or execution of a plan, idea, model, design, specification, standard, algorithm, or policy. In this project we have used following tools or components:

1. Java: Java is a versatile, object-oriented programming language known for its platform independence, making it widely used for developing cross-platform applications.
2. HTML (Hypertext Markup Language): HTML is the standard markup language for creating web pages, defining the structure and elements to display content on the World Wide Web.

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3. CSS (Cascading Style Sheets): CSS is a style sheet language used to define the visual presentation of HTML and XML documents, enhancing the layout and design of web pages.

4. JavaScript: JavaScript is a dynamic scripting language employed for creating interactive and dynamic content on web pages, enhancing user experiences.

5. JSP (JavaServer Pages): JSP is a technology enabling the creation of dynamic web pages using Java, allowing developers to embed Java code within HTML for server-side web development.

6. MySQL: MySQL is an open-source relational database management system, widely used for efficiently managing and organizing data in databases, following SQL standards.

III. PROPOSED SYSTEM INFORMATION

The Unified Campus Portal System is an integrated web platform designed to revolutionize academic communication and management within educational institutions. Starting with a user-friendly registration process, students, teachers, and Heads of Departments (HODs) create unique credentials for secure access to the portal. Upon login, users are directed to personalized dashboards tailored to their roles.

For students, the dashboard facilitates input and management of academic details, attendance records, and extracurricular activities. Teachers and HODs, on the other hand, gain access to a comprehensive overview of their courses, with the ability to edit attendance records and academic details.

A critical feature is the Automated Alert System, triggering notifications via email or SMS if a student's attendance falls below 75%. This ensures timely communication with the student and their designated emergency contact, fostering swift intervention.

The portal serves as a centralized repository, offering a comprehensive student profile that includes academic performance, attendance history, and extracurricular engagement. Security measures, including multi-factor authentication, safeguard sensitive data.

The Unified Campus Portal System not only simplifies the registration and login processes but also provides a tailored, role-specific experience for students, teachers, and HODs. By facilitating efficient data input, editing capabilities, and an automated alert system, the portal aims to optimize academic management, communication, and overall transparency within the educational institution.

- **User Registration:** The onboarding process for the Unified Campus Portal System begins with a user-friendly registration page. Here, prospective users, whether they are students, teachers, or HODs, are prompted to fill in their personal details. The registration involves creating a unique user ID and password, and users may need to provide specific identification information relevant to their role within the institution.

- **User Login:** Upon successful registration, users can log in to the portal using their unique credentials. The login interface is intuitive and distinguishes between students, teachers, and HODs. Each user is directed to a personalized dashboard that aligns with their roles and responsibilities.

- **Student Dashboard:** Students logging in are greeted with a dedicated dashboard where they can input and manage their academic details. This includes updating personal information, posting attendance records, and sharing achievements or extracurricular activities. Students retain the ability to view and modify their own data within the specified parameters.

- **Teacher and HOD Access:** For teachers and HODs, the dashboard extends beyond personal details to include a comprehensive overview of the courses they are associated with. Teachers can access and edit attendance records, grades, and other relevant information for the courses they teach. HODs, in addition to overseeing their own courses, can view aggregated data for their department.

- **Automated Alert System:** A pivotal feature of the system is the Automated Alert System designed to address attendance concerns. If a student's attendance falls below the predefined threshold of 75%, the system triggers automated alerts. These alerts are sent promptly via email or SMS to the concerned student, emphasizing the importance of addressing attendance issues. Simultaneously, the designated emergency contact receives a notification, ensuring timely communication and intervention.

- **Comprehensive Student Information:** The portal functions as a centralized repository of student information. Teachers and HODs can access a detailed student profile encompassing academic performance, attendance history, and extracurricular involvement. The centralized nature of this information hub facilitates efficient information retrieval, fostering a more transparent and collaborative academic environment.

- **Security Measures:** To safeguard sensitive academic data, the system incorporates robust security measures. Multi-factor authentication protocols are implemented to ensure secure access to the portal, safeguarding user privacy and maintaining the integrity of academic records.

IV. SYSTEM INFORMATION

This Portal System is a web platform designed to improve communication and management in educational institutions. It starts with a simple registration process where students, teachers, and Heads of Departments (HODs) create secure login credentials. Once logged in, users see personalized dashboards based on their roles.

For students, the dashboard helps manage academic details, attendance, and extracurricular activities. Teachers and HODs get a comprehensive overview of their courses, with the ability to edit attendance and academic details. An important feature is the Automated Alert System, which notifies users via email or SMS if a student's attendance drops below 75%, promoting quick intervention.

The portal acts as a central hub, offering a complete student profile including academic performance, attendance, and extracurricular engagement. Security measures, like multi-factor authentication, protect sensitive data.

V. CONCLUSION

[1] The Unified Campus Portal System is like a helpful tool for schools. It makes things easier for students and teachers by having an easy sign-up, special pages for each role, and a cool Alert System. It keeps all the important stuff in one safe place, making it easier for schools to manage information and communicate well. [2] Again this System aims to provide quintessential solution for students to upload their information and to get current status during recruitment process. It helps company to get shortlisted students according to their criteria and even for institution to keep the track of students performance in recruitment drive.

VI. ACKNOWLEDGEMENT

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