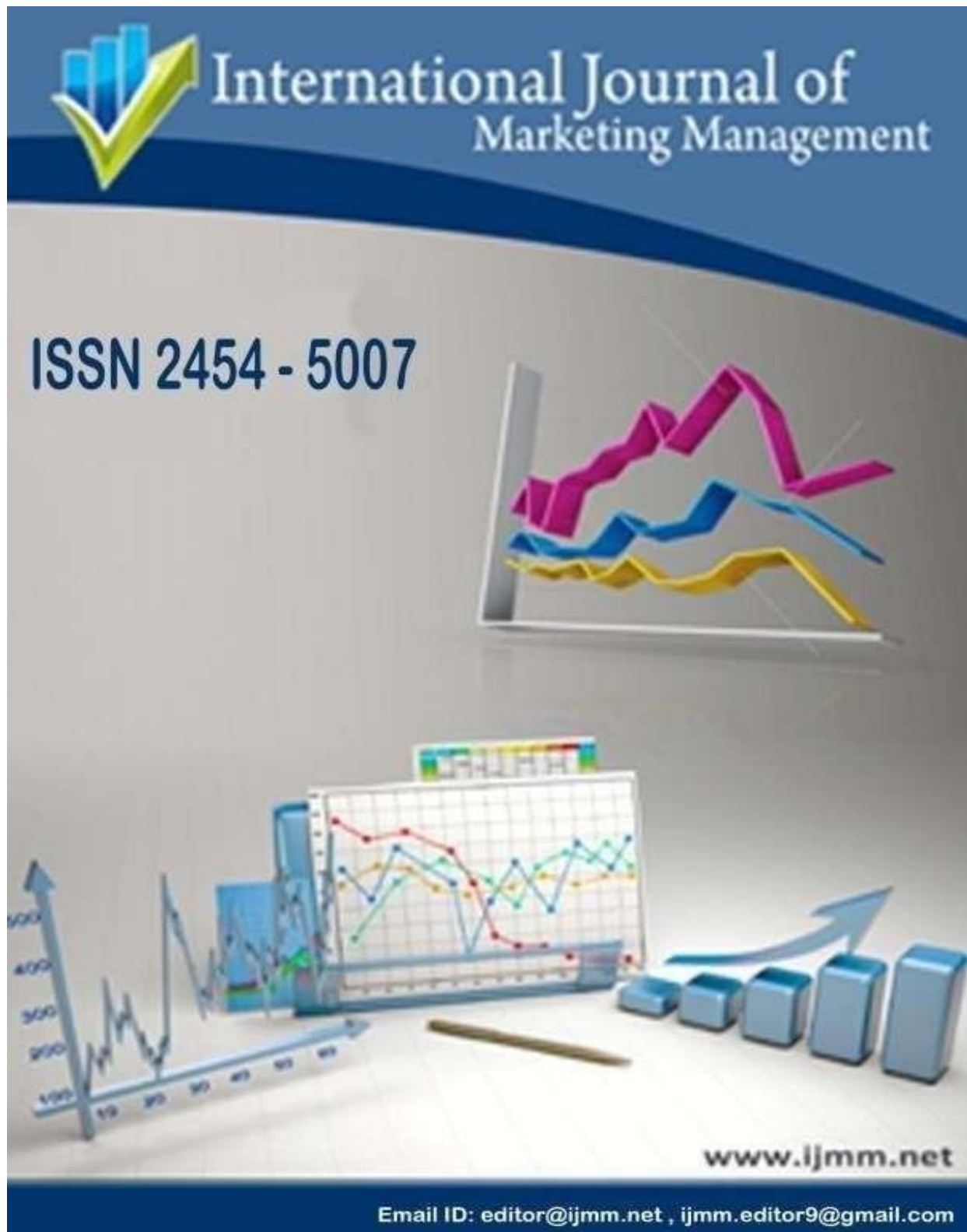




Departmental Notice Automation System

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ABSTRACT

The Departmental Notice Automation System is a web-based platform that digitizes the creation, publishing and managing departmental notices. It eliminates the need for physical notice boards, saving time and space while preventing damage or delays. The system enables faculty and administrators to manage notices digitally and allow students to view real time updates anytime, anywhere. By leveraging the technologies such as HTML, CSS, Java script, the system ensures transparency, efficiency, and improved communication within the department. The system includes user authentication, responsive design and secure database storage for easy retrieval and data integrity.

Keywords

Automation, Notice Management, Web Application, Database System, Departmental Communication.

INTRODUCTION

In workplaces, businesses, and educational institutions, notices have long been one of the most important departmental communication tools. Announcements, timetables, policy updates, event specifics, and other crucial information are all

disseminated through them officially. These messages are often printed, pinned, and placed in the middle of the department on a real noticeboard. Even while the physical notice board method is straightforward and affordable, it has a number of significant drawbacks in the fast-paced, technologically advanced world of today. First of all, there will inevitably be delays because a notice needs to be produced, printed, and put up in person before anyone can view it. The second significant disadvantage is limited reach; only those who are physically close to the notice board can see the update, which means that distant employees or students are unaware of it. In the age of digital transformation, where communication is expected to be instantaneous, accurate, and accessible from anywhere, the manual notice board is becoming less and less relevant. Institutions are moving toward paperless systems not only to increase efficiency but also to reduce costs and environmental impact. A digital approach allows faster updates, wider reach, and better record-keeping, while also aligning with sustainability initiatives by reducing paper waste. Thirdly, there is no archival capability—once notices are removed from the board, they are often lost forever, making it difficult to retrieve previous information that has been posted.

LITERATURE REVIEW

I have studied recent papers and explore the content about this topic. In those papers I have found some limitations. In that first paper is Digital notice boards improve accessibility and reduce delays in information sharing proposed by Patil & Kulkarni in 2019 but in this paper there is the initial high cost for procuring and installing the necessary digital display hardware (screens, network devices) in every required location and the second paper is Smart Mobile and Web Based Notice Board System for Educational Institutions proposed by Sahoo, et al, in 2020 but in this paper there is its critical reliance on continuous internet/mobile data access and digital device ownership for all students and the last paper is Cloud Based Automated Notice Board System proposed by Reddy and Sharma, in 2021 but in this paper there is internet dependency and cloud security risk. These limitations studied in proposed system.

RELATED WORK

In this, Departmental Notice Automation System is developed to digitalize and streamline the process of creating, publishing, and managing departmental notices in educational institutions. The project replaces traditional manual notice boards with a web-based automated platform that ensures instant communication between faculty, students, and administration. It allows authorized admins to post, edit, and delete notices in real time while maintaining secure access control. Here in this project, I have used different technologies such as HTML, CSS, JavaScript, Python, the system provides a responsive interface accessible across

devices. The tool features role-based authentication, centralized storage, and automated notifications, ensuring accuracy and reliability of information dissemination. Data security and version control mechanisms prevent unauthorized modifications. By automating the notice management process, the project reduces paperwork, saves time, and enhances communication efficiency within departments, contributing to a smarter and more organized academic environment.

EXISTING METHOD

Existing methods for departmental notice automation systems include manual notice board management using printed web-based portals built with HTML, CSS, JavaScript, and backend technologies like Python for posting and managing notices, database-driven systems using MySQL or MongoDB to store and retrieve notices efficiently, role-based access control for administrators and users to ensure secure posting and editing, automated notification systems through email or SMS alerts to inform students instantly, and mobile or cloud-based applications that allow real-time access, updates, and scheduling of departmental notices.

PROPOSED METHOD

Based on the existing system, the proposed system for the Departmental Notice Automation System aims to overcome the limitations of manual and semi-automated methods by introducing a fully integrated, intelligent and user-friendly platform. The proposed system will provide a centralized web and mobile applications where administrators can easily create, update and delete notices in real time. It will feature secure role-based authentication to ensure

only authorized users can manage notices while students can view notices. Automated notification mechanism using email and in app alerts will inform users about new notices. The proposed system ensures high availability, scalability and ease of access, leading to faster, paperless and more efficient departmental communication process.

SYSTEM ARCHITECTURE

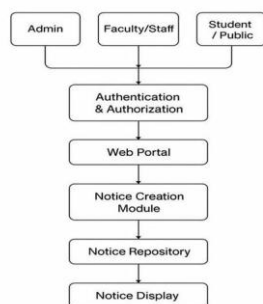


Fig 1: Architecture of the Departmental Notice Automation System

METHODOLOGY DESCRIPTION

Admin / Faculty / Staff / Students:

Users view departmental notices based on assigned roles and admin can create, delete and update notices.

Authentication & Authorization: Verifies user identity and assigns permissions through secure login mechanisms.

Web Portal: Provides an online interface for creating, managing, and viewing departmental notices.

Notice Creation Module: Enables authorized users to compose, edit, and submit notices with relevant details.

Notice Repository: Stores all approved notices, user data, and attachments in a secure database.

Notice Display: Publishes and displays approved notices on web, mobile, or digital boards for end users.

RESULTS AND DISCUSSION

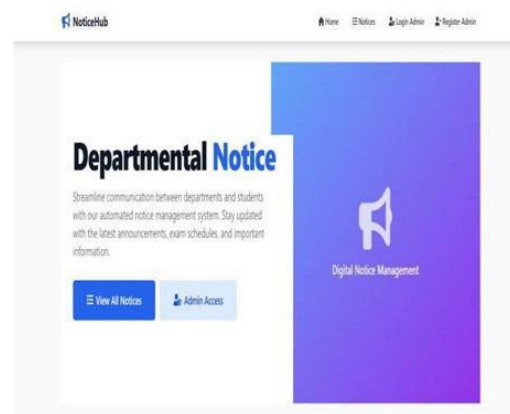


Fig 2: Landing Page

This is the home page of the Departmental Notice Automation System providing quick access for users to view notices and admin to manage notices.


 The screenshot shows the 'Admin Registration' form. At the top, there's a user icon and the title 'Admin Registration' with the subtitle 'Create your admin account to manage department notices'. The form contains several input fields: 'Full Name' (with placeholder 'Enter your full name'), 'Email Address' (with placeholder 'Enter your email address'), 'Username' (with placeholder 'Choose a unique username'), 'Department' (with a dropdown menu and placeholder 'Select your department'), 'Password' (with placeholder 'Create a strong password'), and 'Confirm Password' (with placeholder 'Confirm your password'). At the bottom, there's a blue button labeled 'Create Admin Account'.

Fig 3: Admin Registration Page

This is the admin registration page where admin can register and create account by providing details.

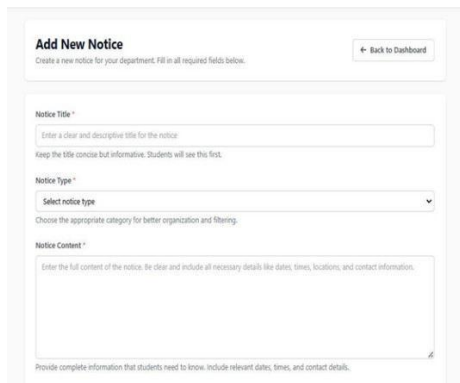


Fig 4: Creating Notice

In this page, admin can create new notice based on notice title, type and notice content.



Fig 5: User Login Page

This is the User Login Page where user can login with their valid credentials.

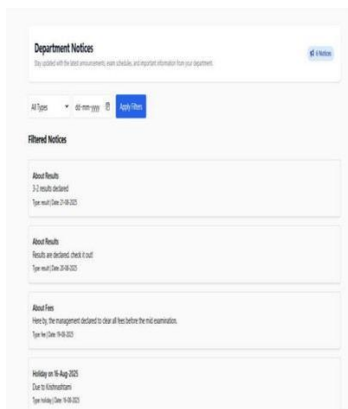


Fig 6: Users can view notices

In this page, user can view notices based on type and date.

CONCLUSION

The Departmental Notice Automation System efficiently standardizes, streamlines, and centralizes the creation, approval, and multi-channel distribution of all departmental notices. This automation ensures notices are timely, accurate, and reach the targeted audience instantly via web, email, and SMS.

FUTURE SCOPE

Future enhancements for the Departmental Notice Automation System should prioritize integrating AI-driven intelligence and expanding system interoperability. This involves deploying AI-Powered Smart Notifications to personalize delivery timing and channel preferences.

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