Centralised Application Development for College Notices

Manjula Aaragi[1], Pragati Boga[2], Komal Dantkale[3], Vidya Sonnad[4],
Prathamesh Jadhav[5], Prof. S. S. Bhuite[6]
Students, Department of Computer Science and Engineering[1,2,3,4,5]
Faculty Department of Computer Science and Engineering[6]
Brahmdevdada Mane Institute of Technology, Solapur, Maharashtra, India
Solapur University, Solapur, India

Abstract*: The aim of our project is to replace traditional notice boards with an E-notice board system. With the "BMIT App" installed on Android devices, users can easily access all college-related notices anytime and anywhere. The system includes a notification manager feature, through which the admin can send notifications to faculty and students after verification. These notifications cover various topics such as scholarships, admissions, exams, staff meetings, holidays, events, timetables, and achievements. The system enhances organization and communication between instructors, faculty, and students, saving time and effort. By leveraging the latest technologies and connecting to the educational database of the university, the Android application streamlines information dissemination. The system also eliminates the need for printing papers or making individual calls or messages to inform staff about meetings with the principal. The web-based admin application and the Android application provide a simple interface for maintaining and accessing information. This project report comprehensively addresses the various tasks carried out by the college, providing staff with detailed information about their wards, including results, important notices, event details, and teacher information*.

Keywords: E-Notice Board, web Base Android device, Online System, Admin, Traditional notice board, Activity.

I. INTRODUCTION

The Centralised application development for college notices is a web and Android application designed to streamline communication within a college community. It replaces traditional paper-based notice boards, reducing the need for pen and paper work and minimizing paper wastage. The system consists of separate sections for academic and non-academic notices, allowing efficient dissemination of information to college students and staff members. With the Android and web-based application, users can access notices through an E-Notice Board from anywhere on the college campus. This project aims to develop a mobile application that schedules and manages college announcements, providing timely notifications for students and teachers. The application facilitates sending notices to students, teaching staff, and non-teaching staff, along with features such as viewing syllabus, academic calendar, student profiles, and notice history. The user-friendly interface makes sending notices convenient, and the system also includes features for managing student attendance, exam schedules, and marks. By digitizing and automating these processes, the Notice Management System enhances efficiency and accessibility in college communication.

Existing system is fully manual. Time consumption is more for searching the information. Maintaining of data is very difficult. Students need to queue up at the notice board.

II. PROPOSED SYSTEM

The proposed system aims to revolutionize the current chaotic and time-consuming process by introducing innovative solutions. It utilizes an Android application to notify each student and faculty member about college events and other important notices. This eliminates the need for students to physically visit the notice board daily and reduces the administrative burden of instructors who no longer need to deal with pen and paper work. Instead, students receive

Copyright to IJARSCT
www.ijarsct.co.in

DOI: 10.48175/IJARSCT-12051

350

ISSN
2581-9429
IJARSCT

relevant notifications on their Android phones, regardless of their location. The proposed system addresses the issue of outdated notices by providing instant and up-to-date notifications, while also allowing users to access previous notices at any time. This streamlined approach not only saves students valuable time but also enables them to utilize it more effectively for productive activities..

2.1 BENEFITS

- Time saving.
- Reduces pen and paper work.
- Students and faculty get their notifications on time.
- Out dated notifications can also be viewed anytime.
- Students need not queue up at the notice board.

III. IMPLEMENTATION

The Notice Management System consists of two components: a web application and an Android application. The web application caters to administrative users such as the Head of Department (HOD), Principal, Staff, Training and Placement Officer (TPO), Office Section, Transportation, Library, Hostel, and Course Coordinator (CC). The Android application serves as a platform for students and staff members to receive and view notices
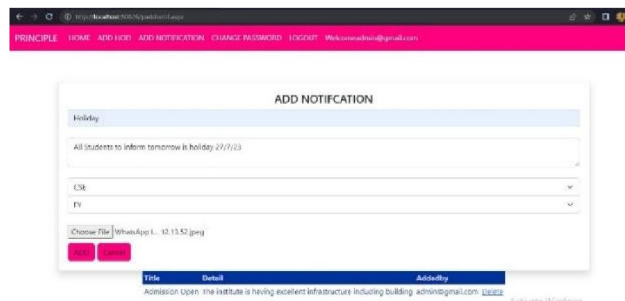
3.1 Web Application Features

The web application is accessible only to authorized personnel and provides the following
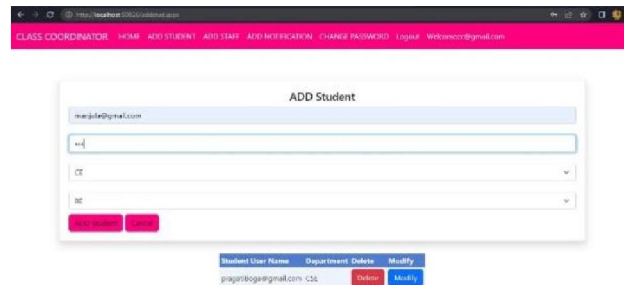
Academic Notices

HOD Add: Allows the Head of Department to add academic notices specific to their department.
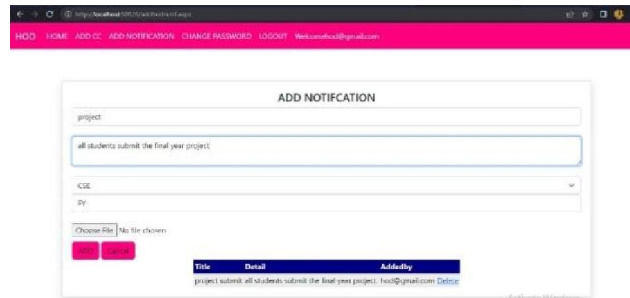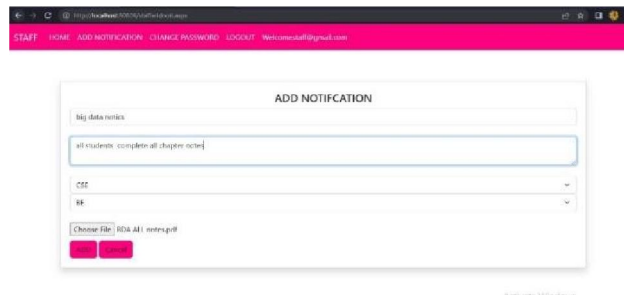

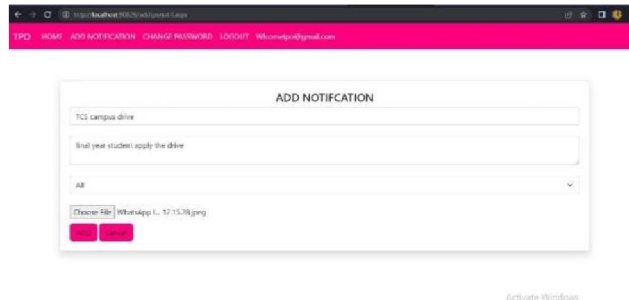**Principal Module:** Enables the Principal to add important academic notices.

CC Module: Allows Course Coordinators to add notices related to their courses.
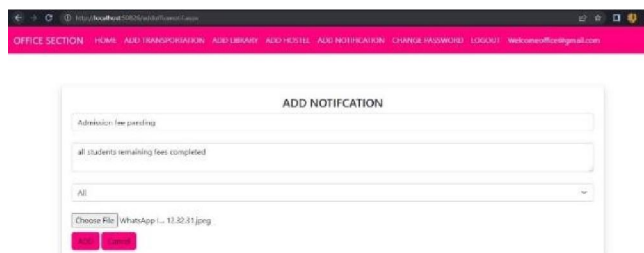

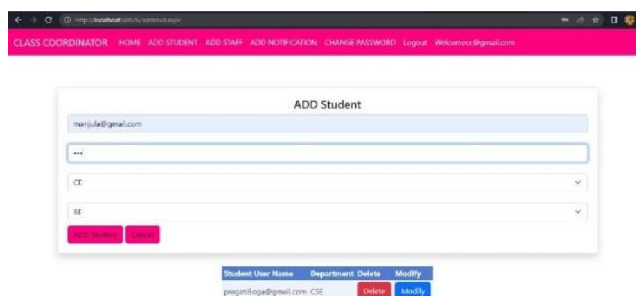**Staff Module**: Enables the Staff to add academic notices.

TPO Module: Allows the Training and Placement Officer to add notices related to placements and internships.

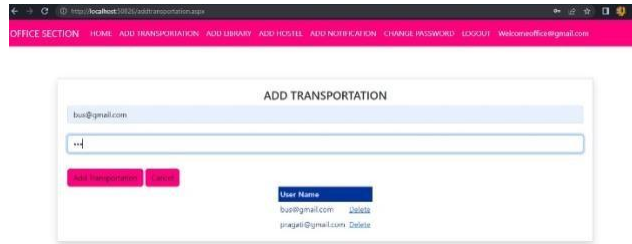**Office Section Module:** Enables the Office Section to add academic notices.

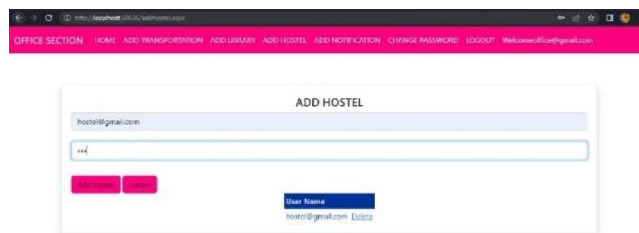**Students Add:** Allows administrative users to add notices specifically for students.
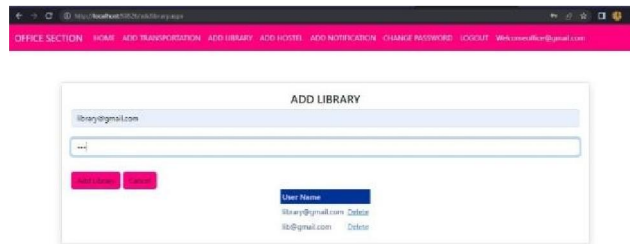
Non-Academic Notices:

Transportation Module: Enables the Transportation department to add notices related to transportation services

Hostel Add: Enables the Hostel department to add notices related to hostel facilities

Library Add: Allows the Library department to add notices related to library operations.

Sending Notices:

Provides the ability to send notices to specific groups or to all users.

Change Password:

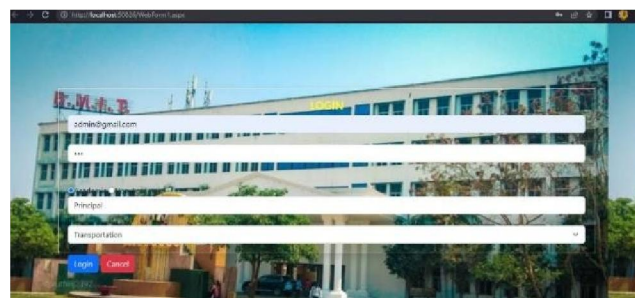Allows users to change their account password.

Logout:

Provides a secure logout feature to ensure account privacy.

Android Application Features

The Android application is designed for students and staff members and includes the following features:

Login:

Users are provided with a unique login ID and password to access the application

Notice Display:

Users can view academic and non-academic notices relevant to their role. Notices are categorized and displayed based on user preferences.

Mark as Read:

Users can mark notices as read, ensuring efficient tracking of unread notices

IV. SYSTEM ARCHITECTURE

The detailed flow of events in the system is shown in the data flow diagram that is provided below. Only user inputs and backend programs are used to carry out any activities.
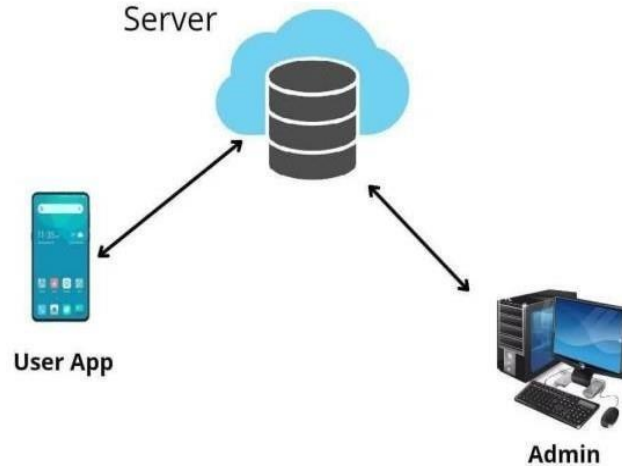

Fig. 1. System Architecture.

V. CONCLUSION

The Centralised application development for college notices is an efficient and user-friendly solution for sending notices to college students and staff members. By providing separate sections for academic and non-academic notices, the system ensures targeted communication and seamless information flow within the college community. The web and Android applications work in tandem to facilitate the exchange of information, enhancing overall communication efficiency and reducing administrative overhead. By implementing this system, colleges can streamline their notice dissemination process, improve transparency, and enhance engagement with students and staff members. The system's user-friendly interfaces and robust functionality make it a valuable tool for effective notice

REFERENCES

[1]. Tae Oh, Bill Stackpole, Emily Cummins, Carlos Gonzalez, Rahul Ramchandran, Shinyoung Lim "Best Security Practices for android, Blackberry and iOS" Emerging Technologies for Smartphones and Internet of things IEEE workshop 2012.
[2]. http://technologiesindia.com/college-management- software.html.
[3]. Pallavi Mohadikar, Nasrin Mulani, Afnan Shaikh, Rachana Sable "College Parent Interaction Using Android Application" International Journal of Computer Science and Network 2015