**ONLINE NOTICE BOARD**

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**1.1 BACKGROUND OF THE STUDY**

Online notice boards, also known as virtual notice boards or electronic bulletin boards, are digital platforms (web-based application) where users can post and view notices and other information. These notice boards can be used for a variety of purposes, such as sharing information about upcoming events, posting job opportunities, or sharing news and updates within a community or organization. Online notice boards are commonly used by schools, universities, businesses, and other organizations as a way to easily share information with a large number of people. Some online notice boards are public and can be accessed by anyone, while others may require a login or other form of authentication to access the information.

The concept of an online notice board is a relatively new one. It provides a platform for people to share information quickly and efficiently without the need for physical paper notices. Online notice boards originated in the late 1990s as a way to provide users with an online platform to post announcements. These online notice boards provide a space for users to post information about events, jobs, services, or any other type of announcement that they would like to share with a large group of people. With the advent of social media, online notice boards have become even more popular, as they provide a way for users to quickly share information with their friends and followers. Online notice boards are now used by many organizations and businesses to spread the word about their services, products, and events.

Dissemination of information refers to the process of sharing information with a large number of people. This can be done in a variety of ways, such as through the use of print media, electronic media, or online platforms. The goal of disseminating information is to make it widely available to as many people as possible in order to inform, educate, or otherwise engage with a target audience. The effectiveness of the dissemination of information depends on the quality of the information being shared, the reach of the medium being used, and the ability of the audience to access and understand the information.

**1.2 STATEMENT OF THE PROBLEM**

In spite of the importance of information on notice boards, it has come under a severe threat from the manual system of information broadcast. This is very much applicable in most educational institutions. The manual system involves placing letters coming from inside and outside of the departments on notice boards located in the department. Students come once in a while to check for available or pending Notices/Letters placed on the notice board. Sometimes these Notices/Letters are not checked out for a period of time and hence the information contained is not functional if students are not present, all Notices/Letters are unread and as such, Notices/Letters which require urgent attention are neglected. Also, a major setback of this system is insecurity as Notices/Letters are kept without proper safety measures and can be accessed by unguaranteed persons.

In the case of the computer science department at Kaduna polytechnic, there is still the manual method of passing information around as they are pinned on the notice board as they are placed in strategic positions around the department. Notice boards are located in all the respective faculty buildings, departments, hostels, etc.

**1.3 AIM AND OBJECTIVES**

To develop an **online notice board** for the department of computer science at Kaduna polytechnic.

**OBJECTIVES**

The objectives of this research work are as follows:

1. In the front-end development modern technologies such as HTML, CSS, and JavaScript will be employed to create an interactive UI and UX as well as Django which is a Python web framework will be employed in developing the back-end
2. In storing and retrieval of the collected dataset; MySQL which is an open-source relational database, will be used as the database technology.
3. Vital testing will be carried out in ensuring the efficacy of the research work

**2.1 LITERATURE REVIEW**

E-Notice Board Android Application using Google Firebase Services. A recent study by (Abhishek, N., & Rashmi, R. (2018). "E-Notice Board" Accessing online alerts that are available on physical devices is made easier by Android applications. Students may quickly access the application using their login information and see the virtual notifications on our mobile notice board. Text and images are used in this notice to alert users. "Replace paper papers with electronic documents, in the academic domain" is the application's major goal. All students get messages via this Android application, and they can only view the alerts from their Android phones after installing the apk file on their devices. Students may read the notices whenever they want because the admin will immediately save the data they post on the cloud. The Firebase platform, which offers backend services and a database as a service, is employed in this application. It offers the application's real-time database. When the administrator publishes the alert from his terminal, which contains text and images stored in several Firebase containers. By just tapping on the notification on the application's dashboard, the user may obtain data/information. An image and text message will then be retrieved from the database.

Online Notice Board System a recent study by Dharaskar, P.M., Waghmare, P., Palode, S., Dhunde, S., Gijare, C., & Mohane, S. (2022). Digital Notice Board is the most important factor in any organization or public utility for the places like bus stops, railway stations, schools, colleges, malls, etc. But sticking multiple notices every day is an irritating process. This mission is about an advanced cell board. The task is built around raspberry-pi. The display is obtained on LCD. Wi-fi is continuously used for Data transmission. We can add or erase or differ the textual content material in accordance with our needs. At the transmitter, an authorized PC is used for sending notices. At receiving end wi-fi fidelity is linked to a raspberry pi. When a licensed consumer sends a message that is to be displayed from his system, it is familiar via the way of the receiver.

Tóth-Bakos, A. (2018). recently conducted research on Options of Using Online Notice Boards in Education. There are several resources available online that aid teachers in making their lessons more engaging. Teachers constantly make every effort to ensure that their pupils can comprehend and absorb the subject being taught as much as possible. One of the biggest benefits of using digital tools and online resources for this purpose is the quick and simple demonstration of lesson content through illustrative and interactive demonstrations, which is what digital data is made for. The study's objective is to showcase a collection of web tools, or web apps, that serve as online message boards. These tools may be used to make conceptual and idea maps, brainstorming exercises, plans, information for sharing, curricula, and study materials in addition to serving as an online bulletin board. As a result, they serve as wonderful teaching and learning tools for instructors, students, and parents, as well as more broadly for all people who study in any way. The research includes presentations of Spiderscribe, Padlet, Corkboard, Lino, and Popplet among its five applications. The study's primary objectives are to give a general overview of the cited uses and, more importantly, to provide ideas and encouragement for creative ways to apply them.

Nirmale, G., Kamalakar, S., Telasang, S., & Mali, P. (2022) recently conducted a research on IOT Based Digital Wireless Notice Board. This paper aims to present an Internet of Things-based online notice board (IOT). Display boards have played a significant role in mass communication over the years. The suggested solution includes an online digital notice board utilizing IOT to decrease paperwork, time, and labor. Things are linked to the internet by IOT. As a result, we may use the internet to access the Notice board from anywhere in the globe. The notice board and Wi-Fi module are interfaced to give the board internet access. The message is received from the designated user and displayed on the notice board by the Wi-Fi module that is installed at the digital notice board. According to our suggested model, an authorized admin is able to publish a message from any location, and the message will appear on the LCD Display. The proposed model funds with multiple applications like help desks in transporting stations like railway, airways and bus stations which offers travellers to have up to date/updated info. It works better to increase prices and decrease costs in congested areas, like supermarkets. This conducts the people/students in absolutely foreign locations. Lesser to the infinite each remote places of the earth may be shown on the screen with the current news and it can be feasible only by the IOT.

**3.1 PROPOSAL METHODOLOGY**

A comprehensive inquiry such as this is used in the research technique to unearth new facts or information about the current system. The research method used in this study combines direct observation from the department and the internet.

**3.1.2 DIRECT OBSERVATION**

This method was utilized to collect information/data for this study by assessing how the manual system was carried out; the method provides varying degrees of control over the context in which they are employed, and rigorous assessment highlighted the evident shortcomings in the current system.

**3.1.3 INTERNET**

The internet will be used as a data-collecting strategy, sourcing information on areas that appear difficult or perplexing in order to achieve a functional conclusion.

**3.4 CHOICE OF PROGRAMMING LANGUAGE**

This research work will be a web-based application and will be implemented on a relational database system (SQLite). HTML (hypertext markup language), CSS (cascading style sheet), and JavaScript will be employed in the frontend while Django(python) will be employed for the backend programming. The above are the modern languages used in implementing this system.

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