Digital Notice Board

Meera R Mohan[1], Prof Miriam Thomas[2], and Dr. Mahalekshmi T[3]

Student, Final Year Master of Computer Application[1]
Assistant Professor, Master of Computer Application[2]
Principal, Sree Narayana Institute of Technology[3]
Sree Narayana Institute of Technology, Kollam, Kerala

Abstract: *The project "Digital Notice Board" is developed in python, which mainly focuses on bringing advanced means of passing notices around in the world in a much easier and efficient way. In our day to day life we can see notice boards in various places. It can provide attention to the public. It help us to choose how to send your information, ensuring that your message is getting across to the right people, in the right place, at the right time. We can control the content and the delivery time for your message. Nowadays a person is needed to stick the information such as exam rescheduling, change in programs etc. on the notice board. It will lead to loss of time as well as usage of manpower and there is a lack of communication between department and office. So there is a need for wireless notice boards to solve the technical problem. It will bring advanced means of passing notices around the world in a much easier and efficient way. Here the admin can control the notice board through the internet. So information can be sent anywhere in the world and can be displayed within seconds. Information may be in the form of text, image, PDF, video etc. So displaying this type of information makes our system more user friendly. Due to the utilization of the internet the user can send a message anywhere in the world.*

Keywords: Flask.

I. INTRODUCTION

Nowadays all the notices and posters have been digitized. The Digital posters are more eye catching than the traditional posters. So people will be more interested in reading them. Main benefit of the system is that the person who is in charge can remotely add or remove notices. We can refer to the notices for further studies in future. Notice boards are an essential information gathering system in our life. In our day -to-day life, we can see notice boards in various places like educational institutions, railway stations, shopping malls, Bus stations, offices etc. So we can say that Notice boards are the places to leave public information such as advertise events, announce events or provide attention to the public, etc. [7] Nowadays a Separate person is needed to stick that information on the notice board. It will lead to loss of time as well as usage of manpower. Digital Notice Board develops a wireless notice board that displays notices uploaded by admin. It provides a reliable, authenticated, user-friendly display system and minimizes the use of wires. Also it helps to eliminate the need of being physically present to hangout the paper notices.

II. BACKGROUND

Technologies used in this project:
- **Python** is an interpreted, high-level, general-purpose programming language. Python's design philosophy emphasizes code readability with its notable use of significant whitespace. Its language constructs and object oriented approach aim to help programmers write clear, logical code for small and large-scale projects. [1] Python is dynamically typed and garbage-collected. It supports multiple programming paradigms, including procedural, object-oriented, and functional programming. Python is often described as a "batteries included" language due to its comprehensive standard library. Python is a simple language to read and learn. It doesn't have complex syntaxes like other high-level languages such as C or C++. Thanks to lesser complexity, Python allows you to think more clearly and focus on logic building.

III. EXISTING SYSTEM

A) How it Actually Works?

In existing system paper is the main medium for information exchange. We know that information counts are endless. So there is a usage of a huge amount of paper for displaying those endless counts of the information. There is no such system in most of the colleges that fulfils the proposed system objectives. Notifications may not be properly reached in all department regularly. If an update is needed it is difficult to inform all departments simultaneously. There is a lack of communication between departments and offices such as exam rescheduling, change in program etc. So there is a need for digital notice boards to resolve the above technical problems.

IV. PROPOSED SYSTEM

The problems faced by the conventional type notice boards are resolved by the implementation of the digital notice board. It will bring advanced means of passing notices in all the departments of college in a much easier and efficient way [5]

A) Description

Digital Notices are helpful for an institution. Sharing of information in effective and attractive is always useful. Due to the popularity of the internet, we choose the internet as a medium for transferring information. Here develops a wireless notice board that displays notices uploaded by admin. It provides a reliable, authenticated, userfriendly display system. It eliminates the need of being physically present to hangout the paper notices.

B) Advantages

- Reduces the time and physical effort
- Information will be effective and can update easily.
- Prevents wastage of paper
- Information is reliable

C) Tool Used

Flask is a micro web framework written in Python. It is classified as a micro framework because it does not require particular tools or libraries. It has no database abstraction layer, form validation, or any other components where pre-existing third-party libraries provide common functions. [2] However, Flask supports extensions that can add application features as if they were implemented in Flask itself. Extensions exist for object-relational mappers, form validation, and upload handling, various open authentication technologies and several common framework related tools. Extensions are updated far more frequently than the core Flask program. [3] Flask is based on two other application Werkzeug WSGI toolkit and Jinja2 template engine. It is a collection of libraries and packages that enables a developer to code without bothering the low-level details [4]
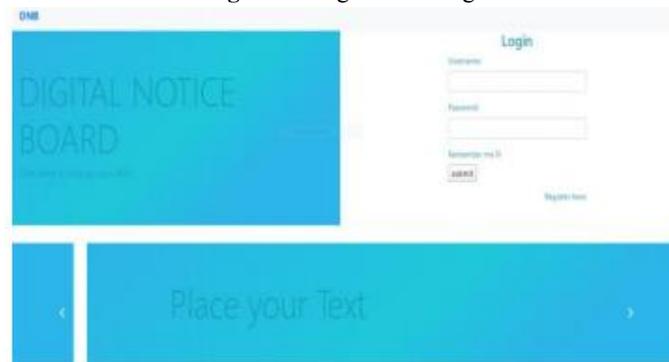
V. RESULTS AND DISCUSSIONS

Fig 1 : Home Page

Figure 1: Home Page

Figure 2: Registration Page

Figure 3: Login page

Figure 4: Upload page

VI. CONCLUSION

Now the world is moving towards automation, so in this world if we want to make some changes in the previously used system we have to use the new techniques. Wireless operation provides fast transmission over long range communication. It saves resources and time. Wireless technology provides fast transmission over long range data transmission. It saves time, cost of cables, and size of the system. Data can be sent from anywhere in the world. Username and password type authentication system is provided for adding securities. In this project, the Admin is provide the overall control of the system. Using this system we can overcome lack in communication between departments and office. This web application is very user-friendly and is reliable. The biggest benefit that digital display boards provide is the flexibility. [6]There are now available mobile digital display boards that allow seamless reach and thus your message will be visible across multiple target location. Digital display boards also provide graphical advertising that helps in getting more attention from the viewers. You can display highly graphical content with more visual aid. Data can be sent from a remote location. User authentication is provided so that unknown people

cannot request this notice board is a secured one. Text messages and multimedia data can be seen whenever we want to see is an advantage of using our project. This proposed system has much upcoming application in educational, institution, railways, malls, advertisement etc.

REFERENCES

[1]. Python Programming: An Introduction to Computer Science (3rd Edition)– 20, Nov 2016

[2]. Flask Web Development: Developing Web Applications with Python, 2nd Edition, Miguel Grinberg – 15 Jul 2014

[3]. Building Web Applications with Flask, Italo Maia–26 Jun 2015

[4]. The New And Improved Flask Mega-Tutorial, Miguel Grinberg–07 Dec 2017

[5]. Electronic Notice Board for Professional College Anushree S P, Divyashree V Bhat, Moonisha G A Venkatesh U C

[6]. N. Villar, K. Van Laerhoven, H.-W. Gellersen. "A Physical Notice Board with Digital Logic and Display". In Adjunct Proceedings of the European Symposium on Ambient, 2007

[7]. GuifenGu and GuiliPengthe Survey of GSM Wireless Communication System, International Conference on Computer and Information Application (ICCIA 2010).