

# Led Info Vision

B.Durgasri<sup>1</sup>, T.Saisruthi<sup>2</sup>,N.Sairoopa<sup>3</sup>,Pruthviraj sahuo<sup>4</sup>

<sup>1</sup>Asst.professor,Department of Information Technology, MLR Institute of Technology Hyderabad, India.

<sup>2,3,4</sup>Student, Department of Information Technology, MLR Institute of Technology, Hyderabad, India.

<sup>1</sup>durga.sree14

**Abstract-** Generally for an Educational Institutions it is difficult to pass any important information to the students which might be mandatory and the students cannot use their smart phones in their college hours .Smart notice board helps you to overcome this problem, as it helps to intimate the students about the college regarding urgent information which is passed by the head of the departments to the students In a certain period of time. Then the information will appear on the LED info vision. It is a real time application.

## I. INTRODUCTION

These days notice has turned into a computerized thing, see board is vital thing for associations and open place. Be that as it may, in the present quicker life it is extremely hard to stick many notification on the notice board. For comfort and convenience .correspondence innovation causes us to trade data and furthermore permits observing and controlling the machines from remote locations. This controlling is conceivable with wired or remote communication. In this world everybody needs a solace living . In this way, the associations, shopping centers, railroad stations and furthermore in a few universities are utilizing the notice board. This venture bargains around a propelled hello tech remote notice board. A validated individual communicates something specific from a remote place which is \_ obvious on the LCD screen. The fundamental target of this venture is to build up a remote notice load up that show message sent from the client and to outline a straightforward, simple to introduce, easy to use framework, which can get and show see in a specific way regarding time and date which will help the client to effectively monitor see load up each day and each time he utilizes the system. Wired organize association, for example, Ethernet has numerous impediments relying upon the kind of connection. Now-a-days individuals prefer a remote association in light of the fact that They can interface with the general population effectively and it requires less time. It presents a sms based notice load up fusing the broadly utilized gsm to encourage the correspondence of showing message on see load up by means of client's portable phone. It is additionally shown on an electronic notice load up which equipped with LED show.

## II. INTERNET OF THINGS

The Internet of Things (IoT) is the network of physical objects like devices, vehicles, buildings and other items which are embedded with electronics, software, sensors, and network connectivity, which enables these objects to collect and exchange data. The Internet of Things allows objects to be sensed and controlled remotely across existing network infrastructure. Creating opportunities for more direct

integration of the physical world into computer-based systems, and resulting in improved efficiency, accuracy and economic benefit when IoT is augmented with sensors and actuators, the technology becomes an instance of the more general class of cyber-physical systems, which also encompasses technologies such as smart grids, smart homes, intelligent transportation and smart cities. Each thing is uniquely identifiable through its embedded computing system but is able to interoperate within the existing internet infrastructure Literature survey: It is a long procedure to set up sees on the notice board. This squanders a great deal of assets like paper, printer ink, man control and furthermore loss of time. In this paper we have proposed a framework which will empower individuals to remotely transmit sees on see load up utilizing wifi. Here we have proposed a framework by which just verified individual can deal with the notice board. It requires less time because of quick information transmission through wifi. Less cost and spare the assets like paper. Driven information vision is an android based application. In this application, user sends the message from the android application gadget, and afterward the message is gotten and recovered by the Bluetooth gadget at the show unit. The client should give their login id and secret word and afterward can have the capacity to send the notice. The watchword may be known to the user. When the client sends the message, it is then sent to the microcontroller that further shows the notice sent from the client on to the electronic notice board.

## III. WORKING OF THE PROJECT

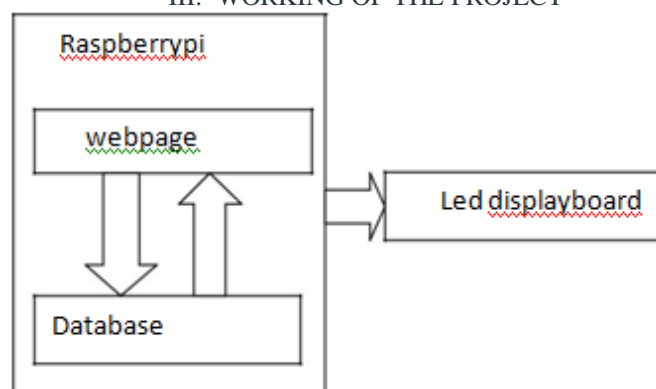


Fig.1: Block Diagram

The main intension of this project is to develop an wireless notice board to display the immediately in the institutions. The data that is entered in in the database That is stored in the database And then always the python node will take the database Each new sentence will be taken by the python node

And then the sentence which is taken by python node will be displayed on the led screen.

IV. EXPERIMENTAL SETUP

First we have to configure putty to enter the ip address of raspberry pi

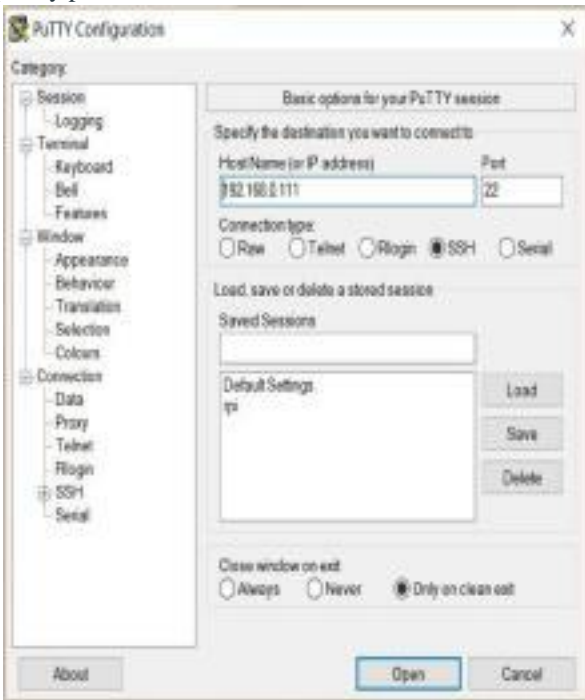


FIG.2:PUTTY CONFIGURATION

Login credentials to run python code



FIG.3: LOGIN SCREEN

Running the python code



FIG.4:

To view source code



FIG 5

Then the web page will be opened



Enter the note and hit send

Enter Your Notice: [text input] [Send]

Notice Sent

FIG.6:

Then we should send the message



Enter the note and hit send

Enter Your Notice: [information technology] [Send]

Notice Sent
Output will be sent

FIG.7:

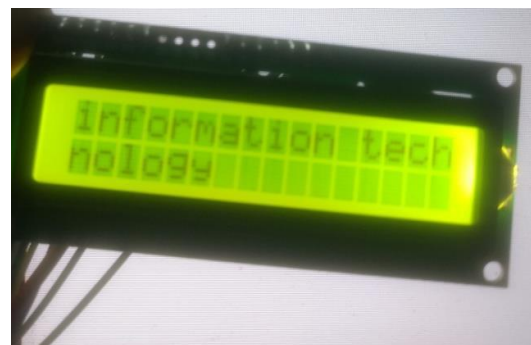


FIG.8: OUTPUT

PROPOSED SYSTEM

Results:



FIG.9: PROTOTYPE OF LED INFOVISION

Notice board is utilized as a part of foundations, associations and open utility spots like schools, railroad stations and so forth. However, sending different notification step by step is an overwhelming procedure. Our proposed framework will show the message that is passed by the authorizers to show it on the screen and afterward that message will be shown on the driven screen. Our proposed framework will empower individuals to remotely transmit sees on a notice board utilizing raspberry pi OS. At the point when client communicates something specific by means of a webserver then that message will show on the drove screen . This undertaking encourages us to get the notice from the personnel to the general population anyplace in surroundings inside a period so,that the works might be done fastly. Whatever the message that is passed through the webpage that is displayed on the screen.

#### V. CONCLUSION

Now the world is moving towards automation, so in this world, if we want \_ to do 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. Data can be sent from remote location. User authentication is provided. Previously the notice board .using GSM was used in that there was the limit of messages but in our system Multimedia data can be stored on chip or on SDcard. Text messages and multimedia data can be seen whenever we want to see.

#### VI. FUTURE ENHANCEMENT

The proposed framework can additionally be stretched out to give the notification from longer separations by giving the web availability which will enable the framework to refresh sees anyplace on the planet. It can be utilized as a part of numerous open spots.

#### VII. REFERENCES

- [1]. Ms.Shraddha J Tupe, Ms A. R. Salunke, "Multi Functional Smart Display Using Raspberry-PI" Volume 2, Special Issue (NCRIT 2015), January 2015. ISSN 2348- 4853
- [2]. Li, B., Hathaipontaluk, P., and Luo,S., "Intelligent oven in smart home environment," International Conference on Research Challenges in Computer Science (ICRCCS '09), pp. 247- 250, Shanghai, 28-29 December 2009.
- [3]. Vinod B. Jadhav, Tejas S. Nagwanshi, Yogesh P. Patil , Deepak R.Patil, "Digital Notice Board UsinG Raspberry PI", International Research Journal of Engineering and Technology (IRJET), Volume 3, Issue 5, May 2016.
- [4]. Jadhav Vinod, Nagwanshi Tejas, Patil Yogesh, Patil Deepak, "Digital Notice Board Using Raspberry Pi", International Journal of Computing and Technology ( IJCAT), Volume 3, Issue 2, February 2016.
- [5]. Ms. Sejal V. Gawande, Dr. Prashant R.Deshmukh "Raspberry Pi Technology" International Journal of Advanced Research in Computer Science and Software Engineering( IJARCSSE), Volume 5, Issue 4, April 2015
- [6]. E. Ohno, K. Nishiuchi, K. Ishibashi, N. Yamada, N. Akahira, "Multipulse recording method for pulse-width modulation recording on an erasable phase change optical disk", *Japan J. of Appl. Phys.*, vol.30, no. 4, pp. 677-681, 1991.