

Digital Notice Board

Title : Digital Notice Board

Group Details :

- Group Number : 8
- Names of group members:
 1. S. Vikhyath (S20180020243)
 2. Alapati Manohar Sai (S20180020220)
 3. B Vishnu Vamsi (S20180020202)
 4. Dittakavi V Adithya (S20180020208)

Abstract :

Notice boards are common in every college and organization. Usually charts and papers are used for displaying the information on the notice boards. The idea of this project is to digitalize this native process by displaying the information on LCD screens.

This project will provide an application interface to the user with which he can display different information in different boards at the same time. Each display is integrated with a raspberry pi and wi-fi module. Even videos can be displayed through this. Scheduling of the information to be displayed will be managed by the raspberry pi.

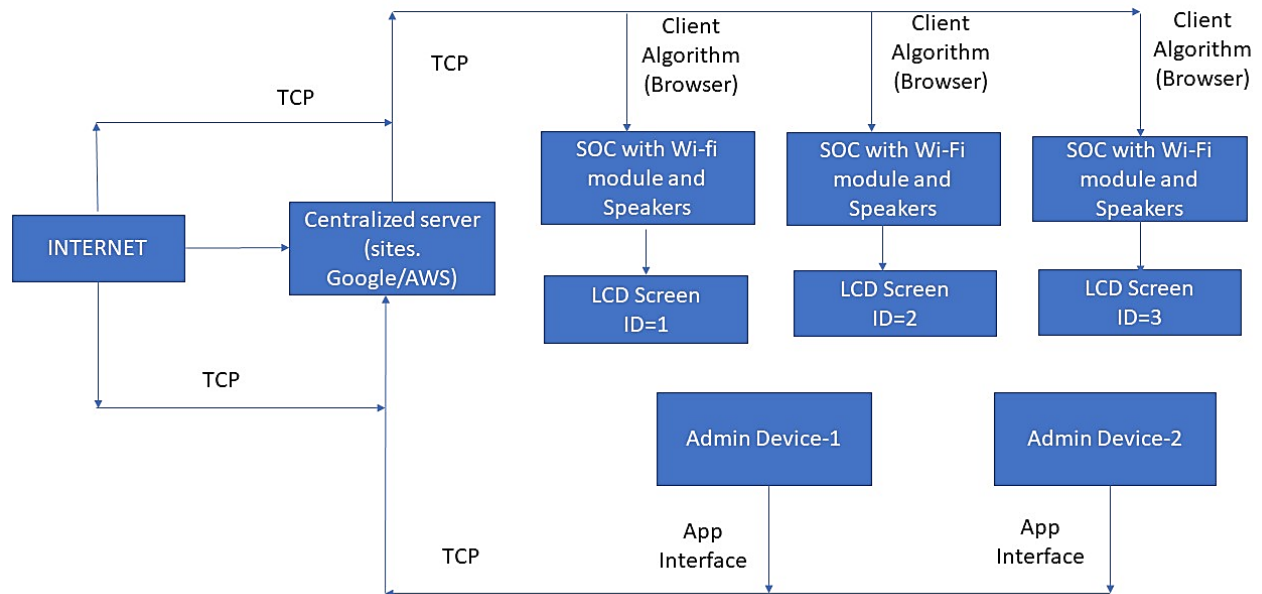
Justification :

Usually, the digital notice boards in any organization are controlled by a central computer within the organization. This project will provide the ease of changing the contents on the notice boards from any part of the world with the help of internet.

The number of screens and the number of admins can be increased based on the requirements of the institution/organization.

Usage of digital notice boards will reduce the use of papers and provides the ease of changing the contents instantly.

Functional Block Diagram :



Components:

- Hardware components:

Component / Quantity	Availability in Institution	Price (in Rs)
Raspberry Pi (2)	YES	-
RPi LCD screen (2)	YES	-
Wi-Fi module (2)	YES	-
Battery cells / Power bank	YES	-
Some cables for connection	-	-

- Software and Networking modules:

- A Server database to manage and store data.
- Centralized computer to send and display the information.
- A program to have task scheduling in e-notice board
- An app to share information from mobiles on to notice boards

Demonstration after 4 weeks :

Demonstration with one LCD screen by using a web database and controlling the contents from laptop.

Demonstration after 8 weeks:

Demonstration with two LCD screens with an integrated app to control the contents of the notice boards.

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