|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| |  | | --- | | **Department of Information Science and Engineering** | | | | | |
| **Acharya Institute of Technology** | | | | |
| Acharya Dr. Sarvepalli Radhakrishnan Road,Bangalore-560107 | | | | |
|  |  |  |  |  |

**Project Synopsis**

|  |  |
| --- | --- |
|  | **Project Title: IoT based Wireless Smart Board.** |
|  | **Name of project guide:** |
|  | **Name of Team Members:**   1. **Name: Pravesh Kasaundhan**   **USN No.: 1AY15IS072**  **Email id: pravesh.beis.15@acharya.ac.in**  **Mobile No.: 9956699141** |
|  | **Abstract of the Project :**  Digital display board is a common sight today. Advertisement is going digital in recent days. The use of digital display boards at railway station, bus stands, shopping malls, educational institutions and public places are becoming an effective mode of communication in providing information to the people. But these off-the-shelf units are somewhat inflexible in terms of updating the message instantly. If the user wants to change the message it needs to be done using a computer and hence the person needs to be present at the location of the display board. It means the message cannot be changed from wherever or whenever. Also the display board cannot be placed anywhere because of complex and delicate wiring. Digital notice board using IoT overcomes these drawbacks. |
|  | **Scope / Objectives of the project:**  The main objective is to design an automatic, self-enabled highly reliable electronic notice board. A display connected to a server system should continuously listen for the incoming messages from user, process it and display it on LCD screen. Message displayed should be updated every time the user sends new information. Only authenticated people should update the data to be displayed on the monitor. |
|  | **Methodology :**  Digital notice board is system user has to login first. If the user is valid then software shows the page in which user can add the notices. Notice can be a text, audio, video. While inserting the notices user has to set priority of the notice as well as the duration for which notice will be display on to the notice board. For the purpose of scheduling we are going to use FIFO and Priority Scheduling algorithm. As per the scheduling the notices are displayed on the board. Raspberry pie is using for connecting the software system and the LCD Board. |
|  | **Expected Outcome of the project :**  When both the transmitter and receiver are connected to the same network, then the notices are displayed on the monitor. They are displayed one after the other after 5 seconds time gap. We can add or remove the notice at any time. |
|  | **Application of the project :**   1. Using multiple screens for displaying the big size advertising 2. The content on the screen is made up of several images files and broad casting display information and also remotely control it. 3. The broadcasting information such as subways, buses and bus station, train and train station, shopping malls, schools, conference hall, road highways, colleges and hospital for displaying all useful institutional information for visitors and this application are also used in industry for displaying notices or useful information are giving to employees. |
|  | **Aadvantages :**   1. Reduction of man power 2. Reduction in time 3. Ease in accessibility 4. Improvement over technology 5. Reduction in the size of system |

**Name of the students Signature with date**

1. Pravesh Kasaundhan

|  |  |  |
| --- | --- | --- |
| **Signature of**  **Guide with date** | **Signature of**  **Project Coordinator** | **Seal & Signature of HOD-ISE** |