VOICE BASED NOTICE BOARD USING ANDROID

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Abstract : This paper presents a Voice Based Notice Board using an Android application, designed to simplify real-time notice management. The system leverages speech-to-text technology to convert voice commands into text, which is then displayed on a digital notice board. The Android app acts as a user-friendly interface, enabling seamless notice updates through wireless communication. This innovative solution is cost-effective, scalable, and accessible, making it suitable for educational institutions, offices, and public spaces. The implementation and testing demonstrate its efficiency, significantly reducing manual effort and improving communication.

Index terms – Speech Recognition Notice Board, Android Application, Wireless Communication, Real-Time Updates, Digital Display, Speech-to-Text Conversion.

INTRODUCTION

Communication plays a crucial role in managing and sharing information efficiently across various domains. Traditional notice boards are commonly used for this purpose but involve timeconsuming manual updates that are often prone to errors. This highlights the need for a modern, automated system to streamline the process. This paper presents a Voice-Based Notice Board that uses an android application and speech recognition technology to revolutionize the way notices are managed. Users can simply speak their messages, which are converted to text and displayed on a digital screen via wireless connectivity. The system eliminates manual intervention, reducing time and effort while improving accuracy and accessibility. The solution is adaptable to different environments, including schools, offices, and public spaces, offering a scalable and costeffective alternative to conventional systems. This paper details the design, implementation, and evaluation of the system, showcasing its potential to enhance communication through automation.
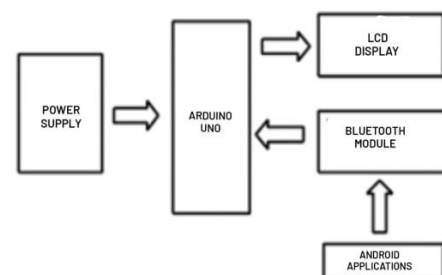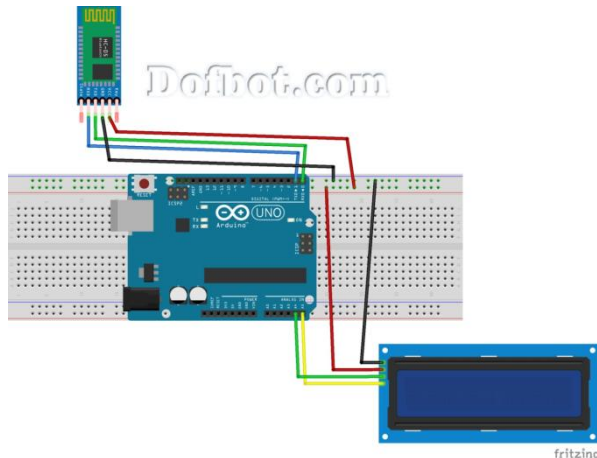
Fig 1 Block Diagram

RESOURCES USED

The materials involved in the smart shopping cart system involve the following electronics components:

1. LCD 16X4
2. Bluetooth module
3. I2c module
4. Arduino UNO
5. Power supply
6. Connecting wires

CIRCUIT DIAGRAM

CONCLUSION

In the voice-based notice board system using Android provides a modern, efficient solution for managing and displaying notices. By utilizing voice commands through an Android app, the system allows for easy and hands-free updates, reducing manual effort. The integration of Arduino Uno with a digital display ensures real-time updates and dynamic content management. This project enhances accessibility, especially in public or educational spaces, where quick dissemination of information is essential. It eliminates paper-based notices, promoting sustainability. Overall, the system simplifies notice management while offering scalability and potential for further enhancements.

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