VISVESVARAYA TECHNOLOGICAL UNIVERSITY BELAGAVI

A

PROJECT SYNOPSIS ON

"ELECTRONIC NOTICE BOARD WITH VOICE BOT"

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INTRODUCTION

Robotics can play a major role in today's day-to-day life, as it reduces human labor, efforts, time and errors due to human negligence. In the near future, robots will perform services and assistive tasks, and be extensively used as helpers in activities of daily living. To achieve acceptance of robots, their design should be planned carefully according to their role. Receptionist is a job that can potentially be performed by conversational agents as well as robots. Computers are becoming indispensable nowadays, and intelligent robots will make a chance for us to use a computer in daily life. Notice boards are an essential information gathering system in our life, and nowadays a separate person is needed to stick that information on the notice board. The implementation of a digital notice board is an advanced means of passing notices around in the world in a much easier and efficient way. The sender can send messages anywhere in the world, and there is no range limitation for the successful exchange of information.

OBJECTIVES

- The main objective of the project is to create a robot that can provide useful services.
- The robot will be designed for ease of interaction without requiring any training or expertise.
- Guide the visitor about the places to move around the college premises.
- Displays the latest update on electronic notice board along with voice communicable bot that responses for predefined quires.

METHODOLOGY

The "electronic notice board using voice bot" project incorporates several innovative features to enhance communication and convenience. The utilization of an LCD display allows for the real-time display of the most recent changes and announcements, ensuring that important information is readily accessible. By integrating a Telegram bot, users can easily access a college map by simply sending a text message, streamlining the process of acquiring essential information about the college. The project also enables authorized individuals to send messages to the Telegram bot, which are instantly displayed on the LCD panel, ensuring efficient dissemination of notices. Additionally, the inclusion of a voice bot allows users to ask questions via Bluetooth, and the bot responds through the speaker with pre-programmed answers, providing a user-friendly and interactive experience. Another notable feature is the implementation of a camera that scans pictures and sends them to the principal via the Telegram bot. This allows the principal to make decisions based on the photo, granting or denying permission accordingly. The LCD display reflects the principal's decision, providing a clear indication to the person seeking an appointment. Overall, this project demonstrates the integration of various technologies to enhance communication, convenience, and decision-making processes within a college environment.

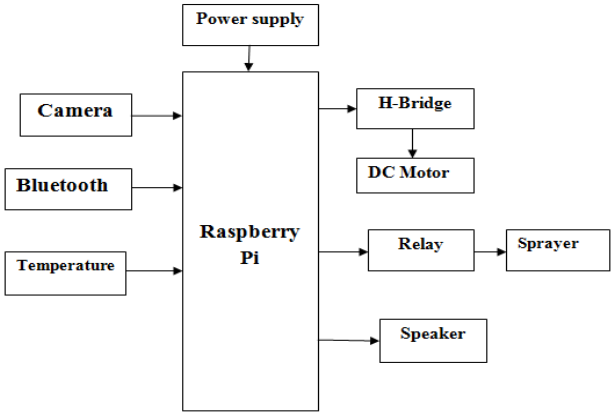


Fig : Block Diagram

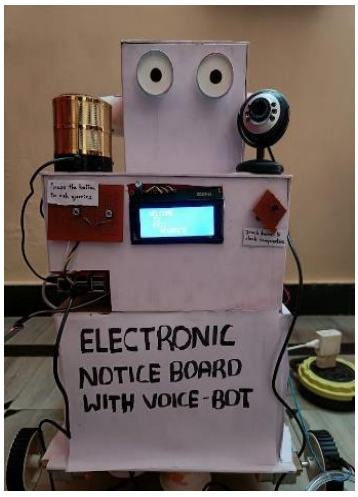
INNOVATION IN OUR PROJECT

- **LCD Display:** The primary objective of the "electronic notice board using voice bot" is to display the most recent changes on an LCD screen and to respond to user inquiries.
- **College Map:** Through a Telegram bot, a college map can be shared. Someone could acquire a map of PDIT College by texting "College map" in a Telegram bot.
- **Notice Display:** First, an authorized individual will send a message to a Telegram bot, and that message will be shown instantly on an LCD panel.
- **Queries:** Over Bluetooth, a user may ask questions, and our bot will respond over the speaker. A user can ask questions, and our bot will answer them through the speaker using questions that have been pre-programmed in the system.
- **Principal Appointment:** The camera will scan a picture and send it to the principal via a Telegram bot. Through that photo, the principle can decide whether the person must enter or not; if the principal responds positively, LCD will show principal given permission, at which point the person can go meet; if the principal responds negatively, LCD will show principal not given permission.

RESULT

- **LCD Display**

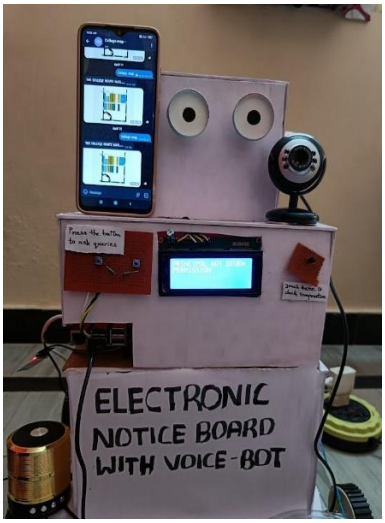
LCD Board to display



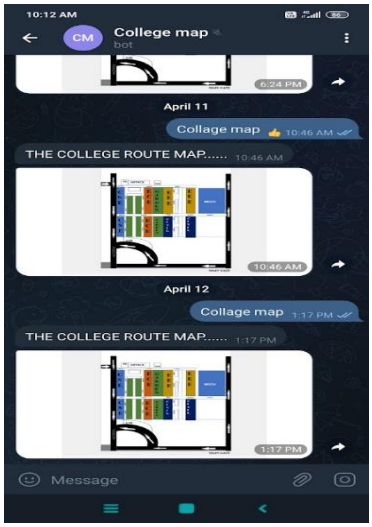
Model

Telegram Message

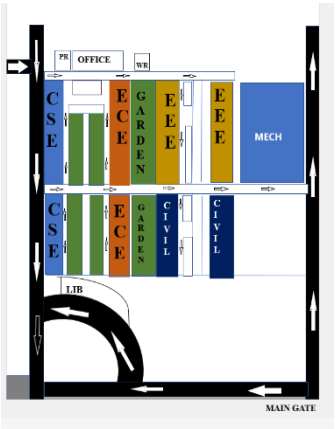
- **College Map**



Internal College Map

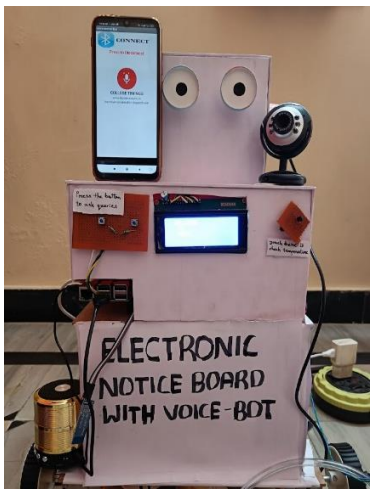


Telegram Bot to Share Map



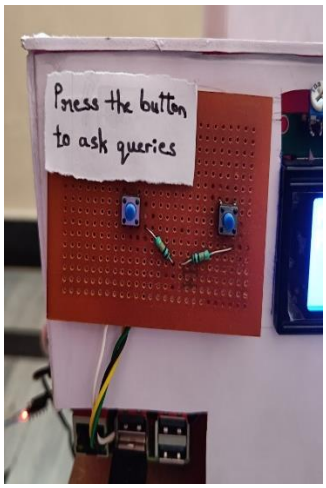
College Map

- **Queries**



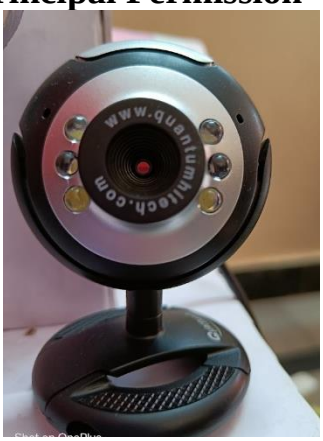
Speakers

Connect Bluetooth

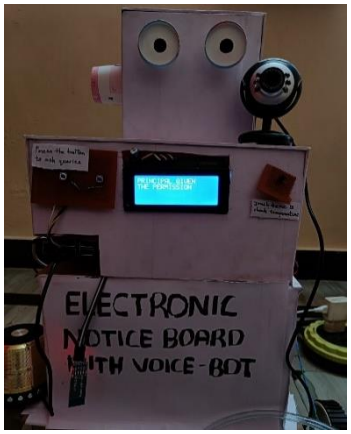


Control Switch

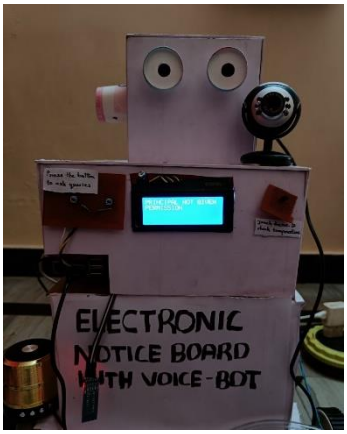
- **Principal Permission**



Web Cam

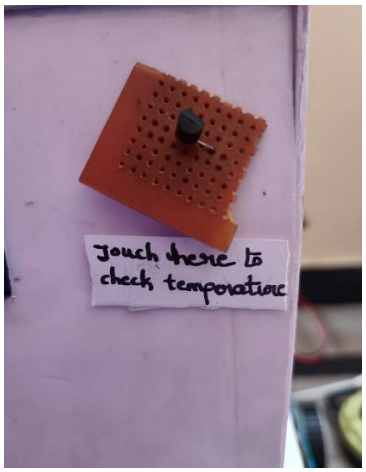


Permission Given



Permission Not given

Telegram bot to recognize person



Temperature sensor

Hand Sanitizer

CONCLUSION

The electronic notice board with a voice bot offers a dynamic and user-friendly solution for information dissemination, map sharing, query handling, and principal appointment management. It streamlines communication within the college community and enhances efficiency in accessing relevant information and seeking assistance. This system provides promising accuracy and the optimization of the model is a continuous process. Using this model any unauthorized entry can be reduced to the maximum extent possible. The proposed system accepts the message, stores it, validates, and displays it on the LCD board. LCD boards are used to display messages in Railway stations, and shopping malls for displaying advertisements, educational institutions, and organizations, and managing traffic in smart cities and other public utility places. The cost of printing and photocopying is also reduced because the information can be delivered to a large number of people in a very short time. It provides a faster transfer of information and is easy to install and maintain. It provides an efficient way of displaying messages on the Notice Board and gets auto notifications using Wireless Technology. It also provides users to easily receive important information or message.

FUTURE SCOPE

The future work on the proposed prototype system will be creating a database system and server in which the visitor's information is stored and can be retrieved whenever needed. Any Real-Time Authorized ID card can be scanned using a real-time ID card scanner with these changes the proposed system can be used in Hospitals, Workplaces, Hotels, Banks, and other sophisticated places.