BANSAL INSTITUTE OF SCIENCE & TECHNOLOGY BHOPAL M.P.

A
Presentation
For
Project 1
In 3rd semester (B.Tech)
On

DIGITAL PARKING SYSTEM

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

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INTRODUCTION :

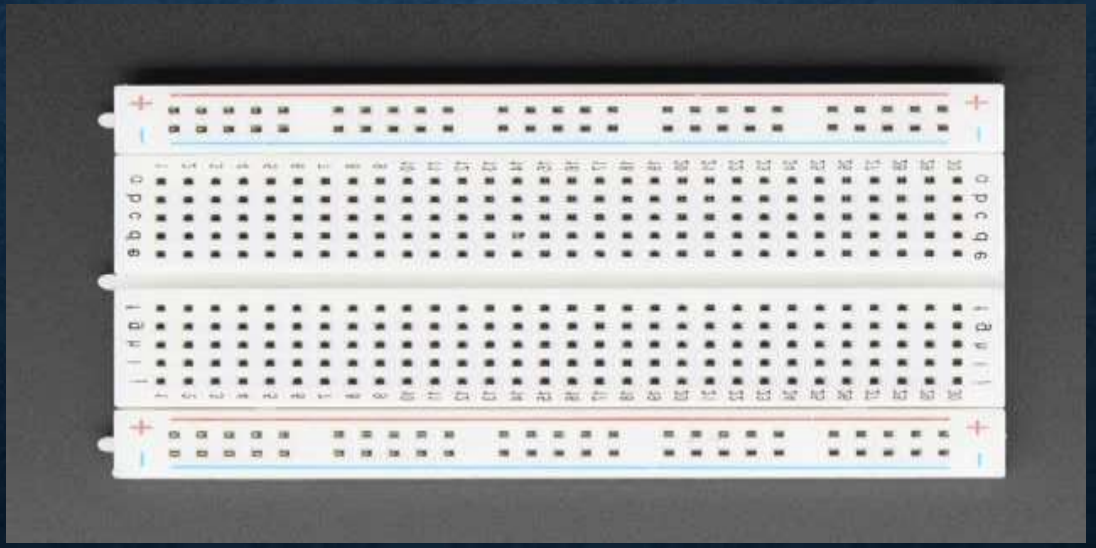
1. Digital parking system is a technology based parking management system ,that used sensors technology.
2. It can help to reduce traffic congestion.
3. It can be defined as an IOT based system that gathers data regarding the avalability of slots in the parking area with the help of cameras or sensors.

LITERATURE SURVEY: **We made this project with the help of internet.**

➢ COMPONENT :

✓ BREAD BOARD :

A breadboard is a rectangular plastic board with many small holes that is used to build and test electronic circuits.

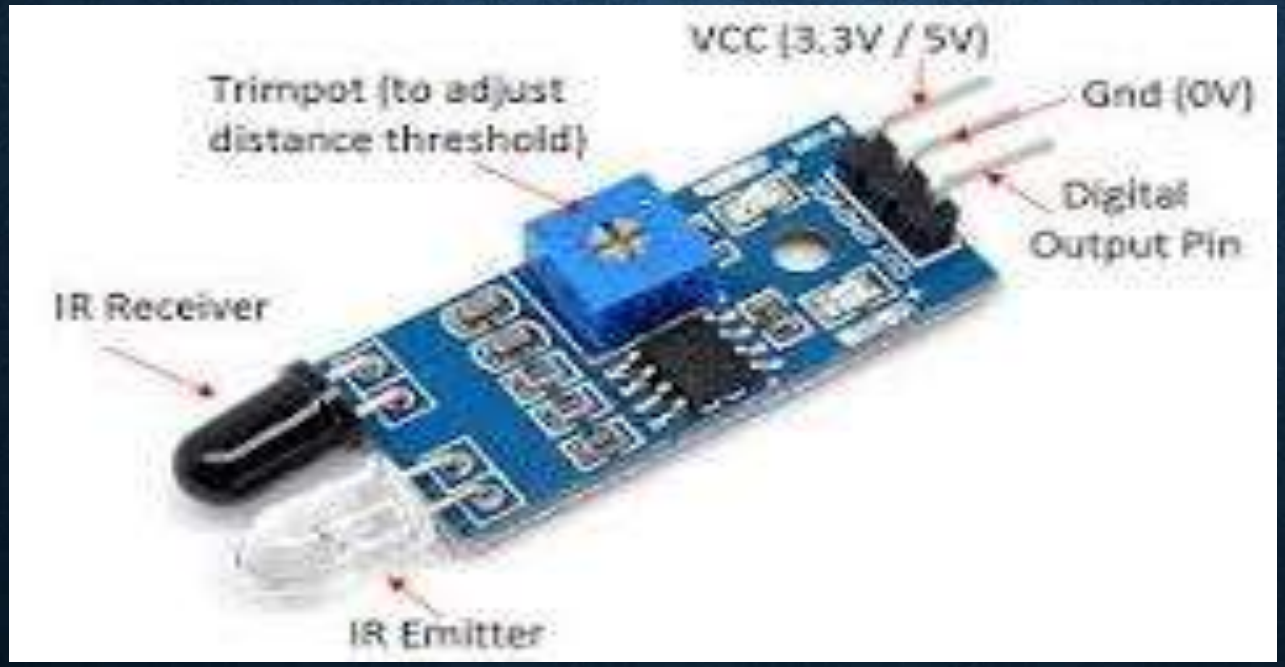


✓ ARDUINO:

Arduino UNO is a low-cost, flexible, and easy-to-use programmable open-source microcontroller board that can be integrated into a variety of electronic projects.

✓ IR SENSOR:

IR sensors are used for detecting motion of vehicles to give output on the LCD.



✓ SERVO MOTOR:

The servo motor acts as an entrance gate, opening and closing when the IR sensor detects the presence of a car. The LCD screen shows drivers of cars the parking spaces that are available. The infrared sensors pick up on the presence.

✓ LCD DISPLAY:

LCD displays are used in digital parking systems to show information about parking spaces, such as which spaces are available and which are occupied. It can display messages such as the availability of parking slots and other system status. IR Sensors: The system makes use of two infrared (IR) sensors.

✓ BATTERY & HOLDER:

The primary function of a battery holder is to keep cells securely fixed in place while providing power for an application. Developers may incorporate them within the body of an electrical item, but they're also frequently used as external compartments or attachments.

•Scalability

➢ WORKING:

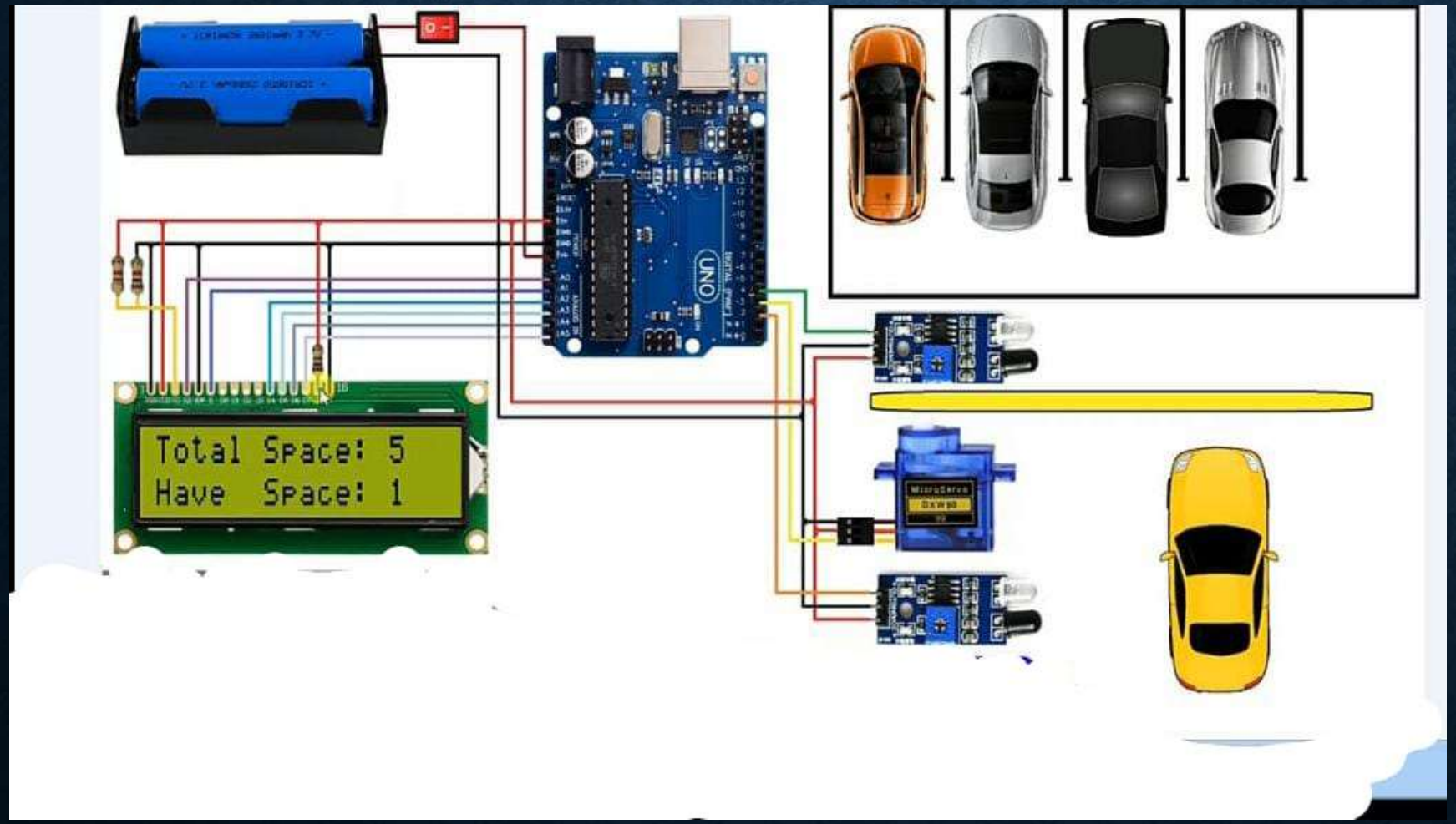
Working of a digital parking system relays real-time data to motorists to spot vacant parking lots at their preferred locations. When the vehicle comes on the path of parking firstly the IR sensor detects the vehicle motion and open gate .then it detects the availability of slots .This is the working of digital parking system.

➢ FEATURES:

Digital parking systems provides some features like—

1. No need any security guard for the parking of vehicles.
2. It increases the efficiency of parking management system.
3. It reduces traffic congestion.

➢ CIRCUIT DIAGRAM:



➢ CONCLUSSION:

Conclusion a digital parking system provides an effective solution to the parking spaces ,reducing traffic jams and wasted time.

➢ REFERENCE:

We took help of youtube and google to made this project.

THANK YOU