

Smart Parking System

Sensor lab

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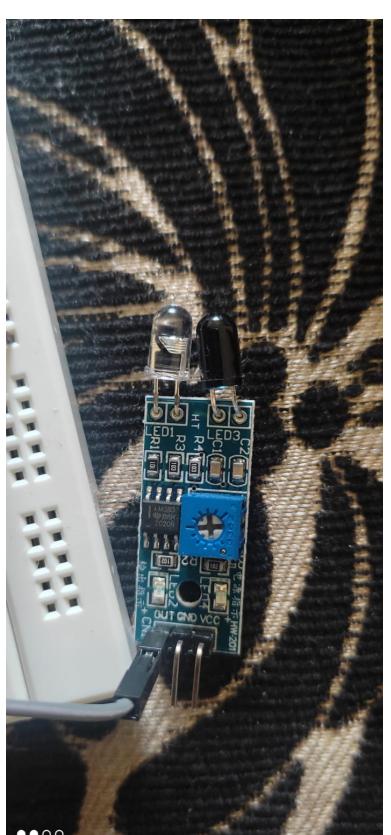
OBJECTIVE

The proposed Smart Parking system consists of an on-site deployment of an IoT module that is used to monitor and signalize the state of availability of each single parking space. A mobile application is also provided that allows an end user to check the availability of parking space and book a parking slot accordingly.

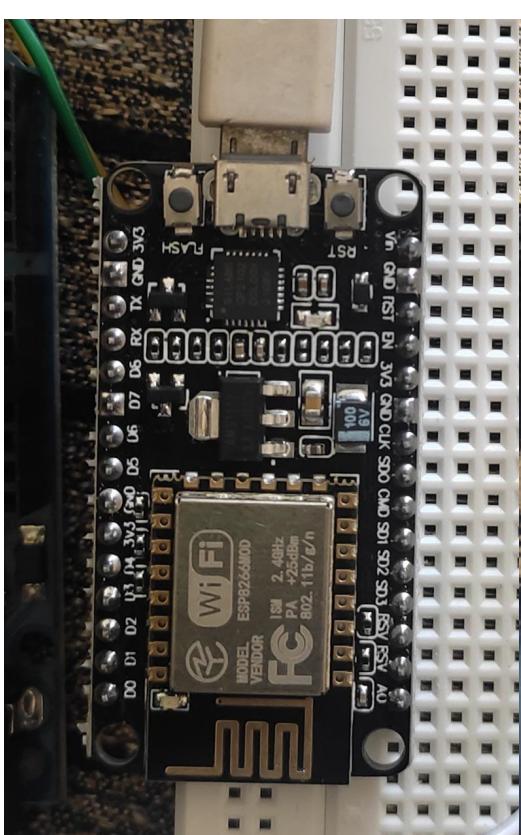
Requirements :

- Hardware:
 1. Breadboard
 2. IR Sensors : 3N
 3. Node MCU
 4. Arduino UNO
 5. Jumper wires
 6. USB Cable to power MCU
 7. Mobile Phone
- Software
 1. Arduino IDE
 2. Blynk App

IR SENSORS



NODE MCU



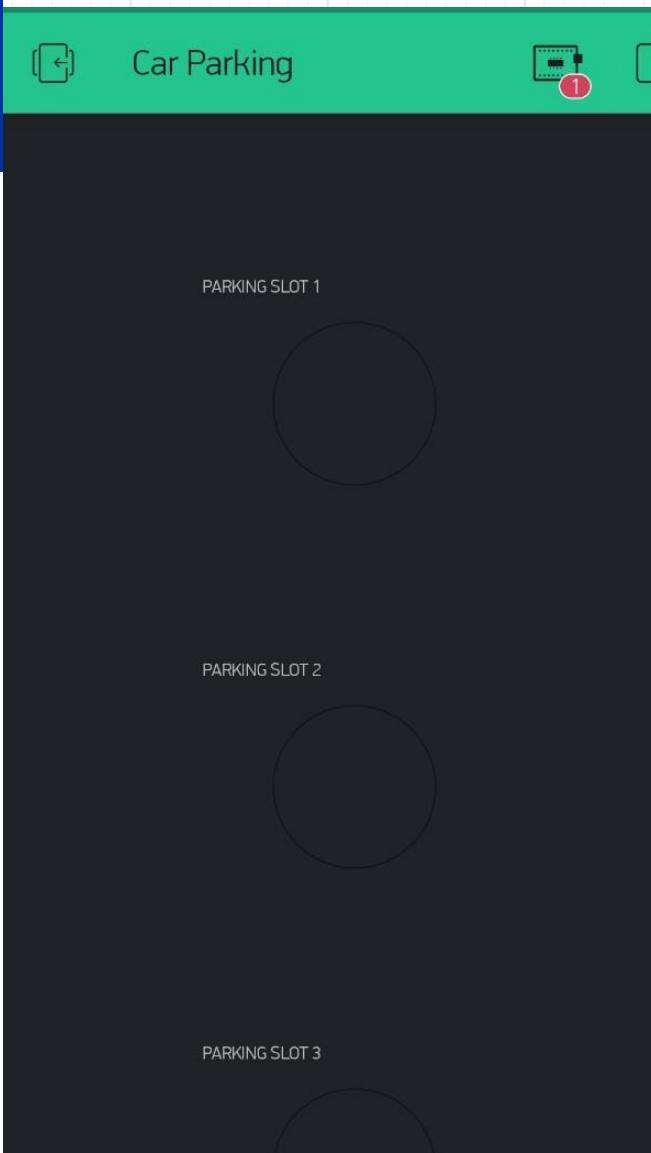
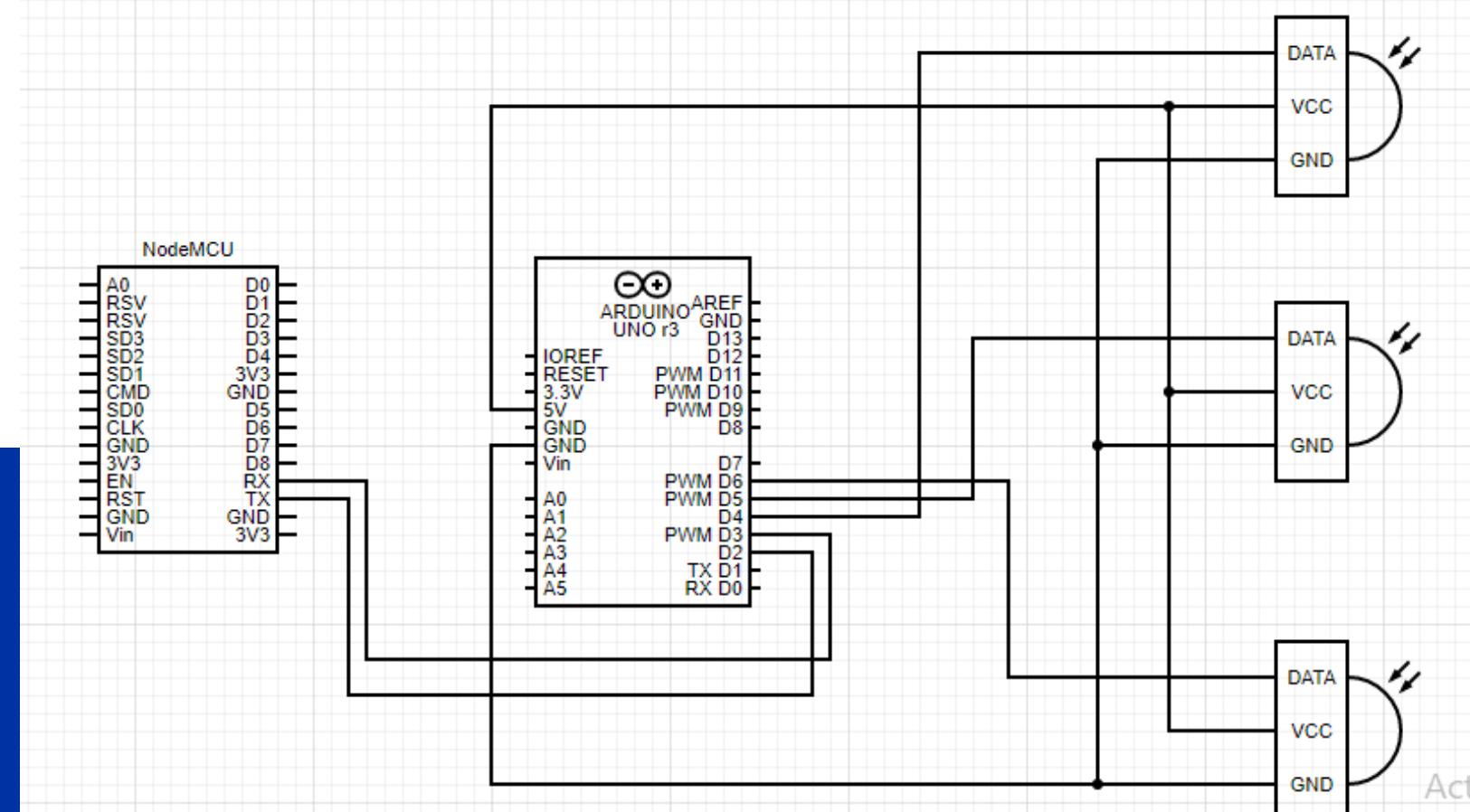
ARDUINO UNO



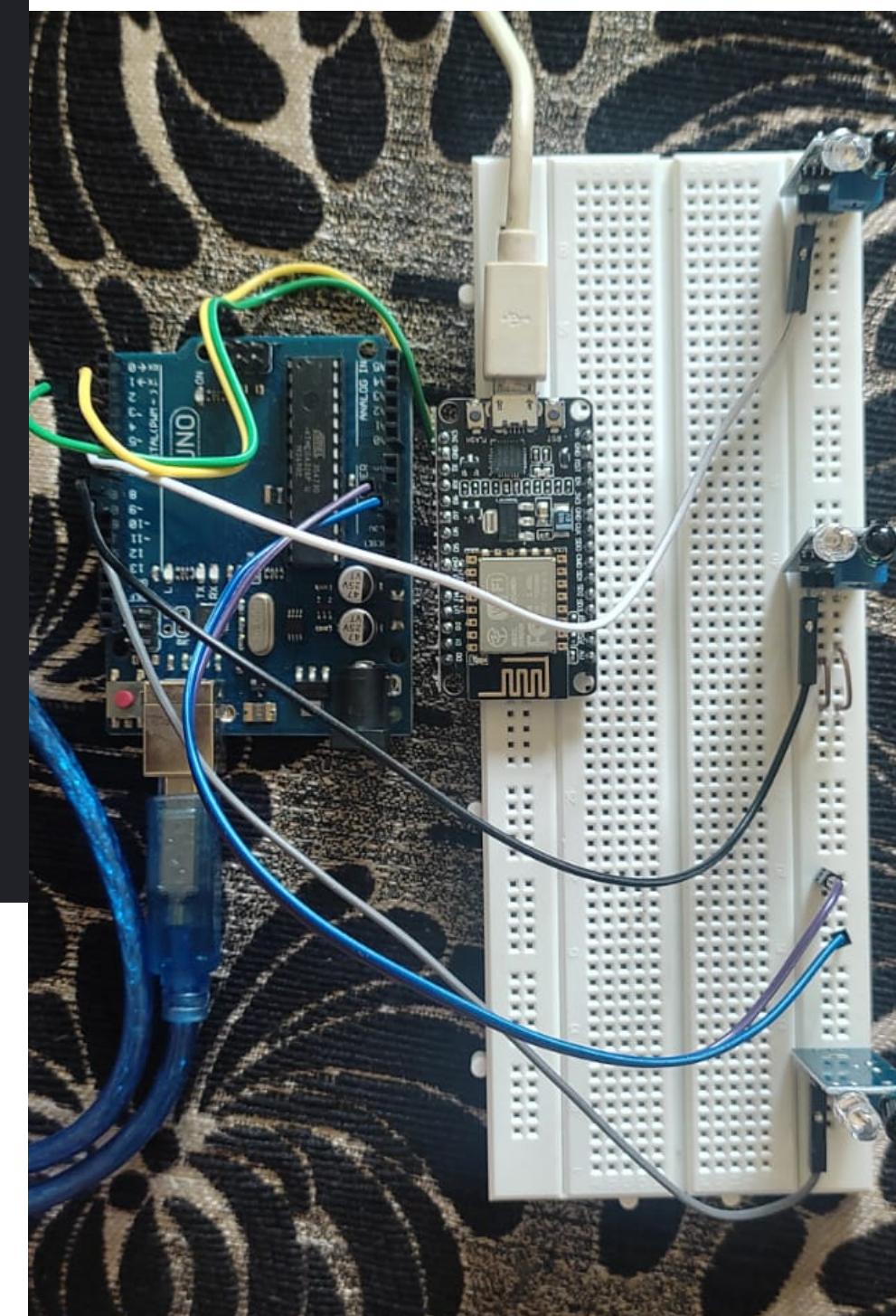
INTRODUCTION

IOT based Car Parking Slots monitoring system using Arduino, Nodemcu esp8266 wifi module, and Blynk application. With the help of the Nodemcu esp8266 wifi module and Blynk application, the parking slots can be monitored from anywhere around the world. In this Tutorial, you will also learn how to use the tabs and led widgets in the Blynk application.

Circuit Diagram



<- Blynk App



Project->

CONCLUSION

The system benefits of smart parking go well beyond avoiding the needless circling of city blocks. It also enables cities to develop fully integrated multimodal intelligent transportation systems that don't rely on cars in the first place