

Internet Of Things

Lab - 3

Aadhitya Swarnesh



31 Jul 2020

Aim :

To build a Smart Parking System with the help of Tinker CAD and concepts of IoT.

Software :

Tinker CAD Software.

Methodology :

This instructions given by our faculty  was followed. The instructions given has been recorded and is available at : 

Simulation And Output :

1) The Components used :

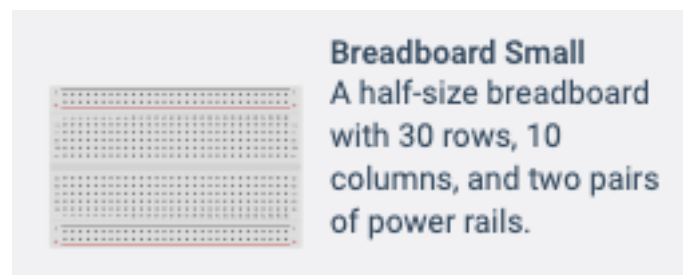
Name	Quantity	Component
PING1 PING2 PING3	3	Ultrasonic Distance Sensor
U2	1	Arduino Uno R3
U4	1	LCD 16 x 2
Rpot1	1	250 kΩ, Potentiometer
R1	1	220 Ω Resistor

2) The Tinker-Cad Process and Output :

A. Arduino Uno R3 :



B. Breadboard :



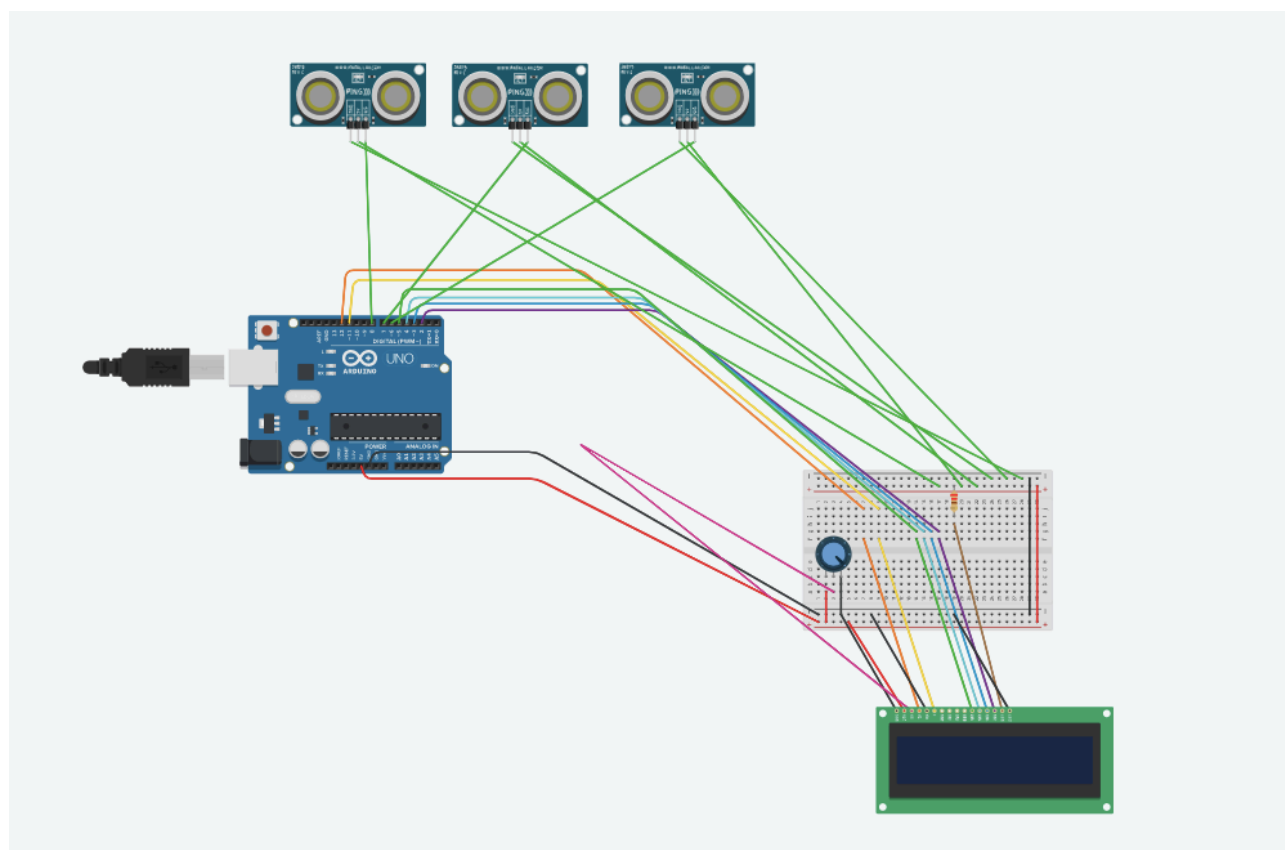
C. Ultrasonic Distance Sensors :



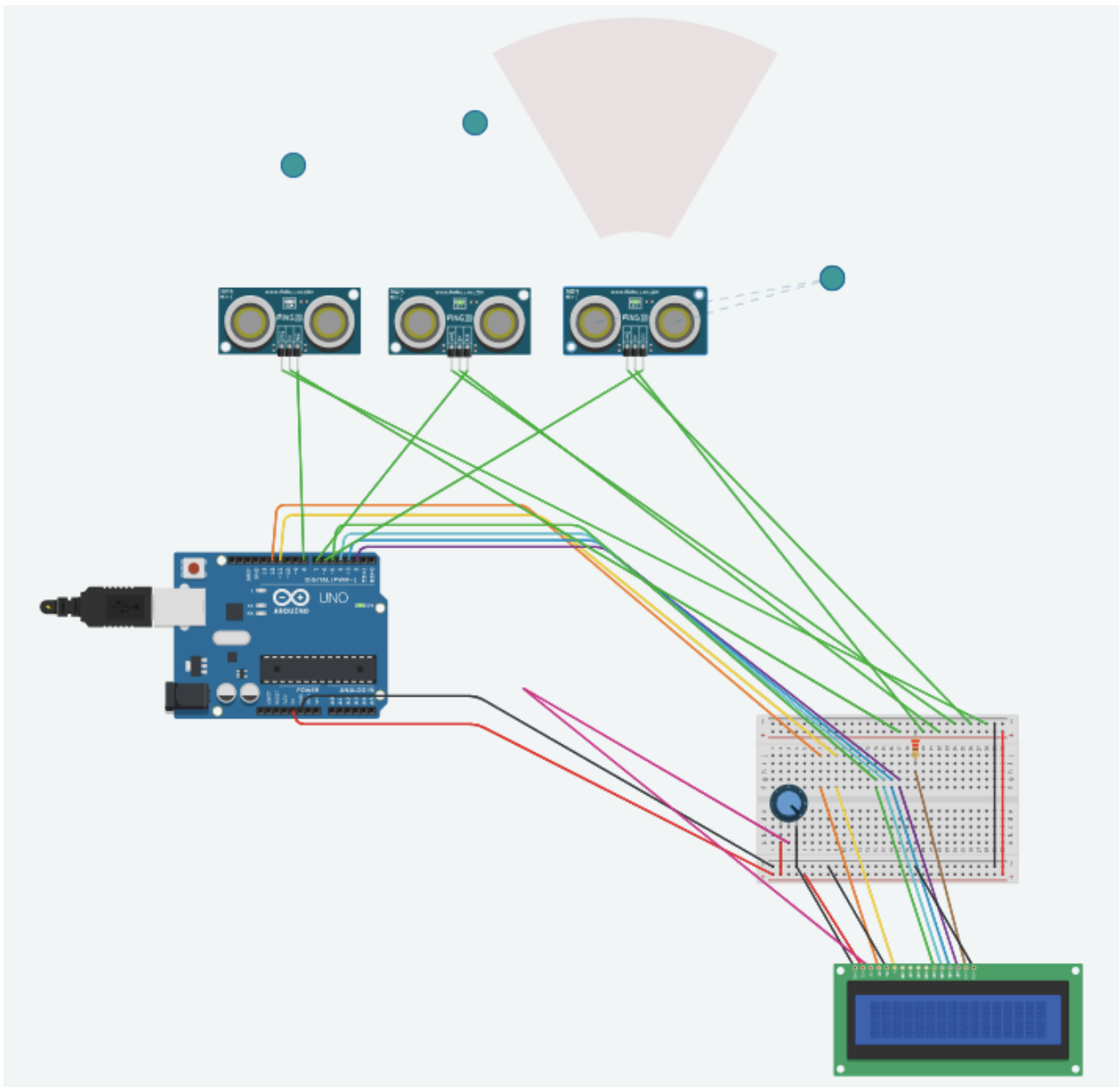
D. LCD Starter Kit :



E. Complete Circuit Diagram :



Output :



Result :

Thus, with the help of Tinker-Cad we have designed a circuit of a Smart Parking Lot, in which we have implemented three lots and used Arduino to recognise and note down if a Parking space is vacant or not, and this information can be used for various purposes depending on the situation.