

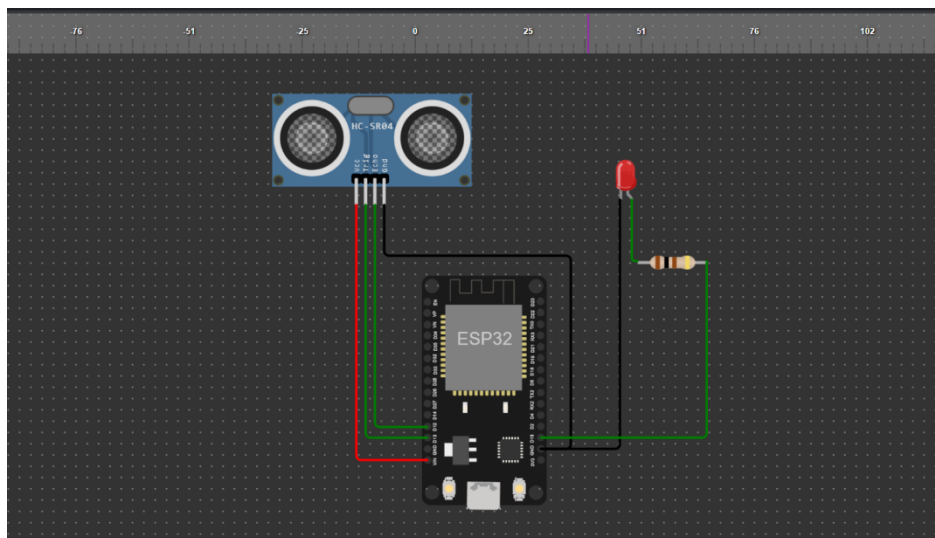
Sprint 1

Date	29-10-2022
Team Id	PNT2022TMID22482
Project Name	Project -Smart Waste Management System for Metropolitan Cities
Team Members	Saravanan G Anand Krishnan N Kishore Kumar J Mohamed Idris M

Description:

A device is designed to check whether the waste bins is filled or not. The device is designed and simulated in wokwi.com. The Code and simulation proofs are given below and the link to check the device is also included.

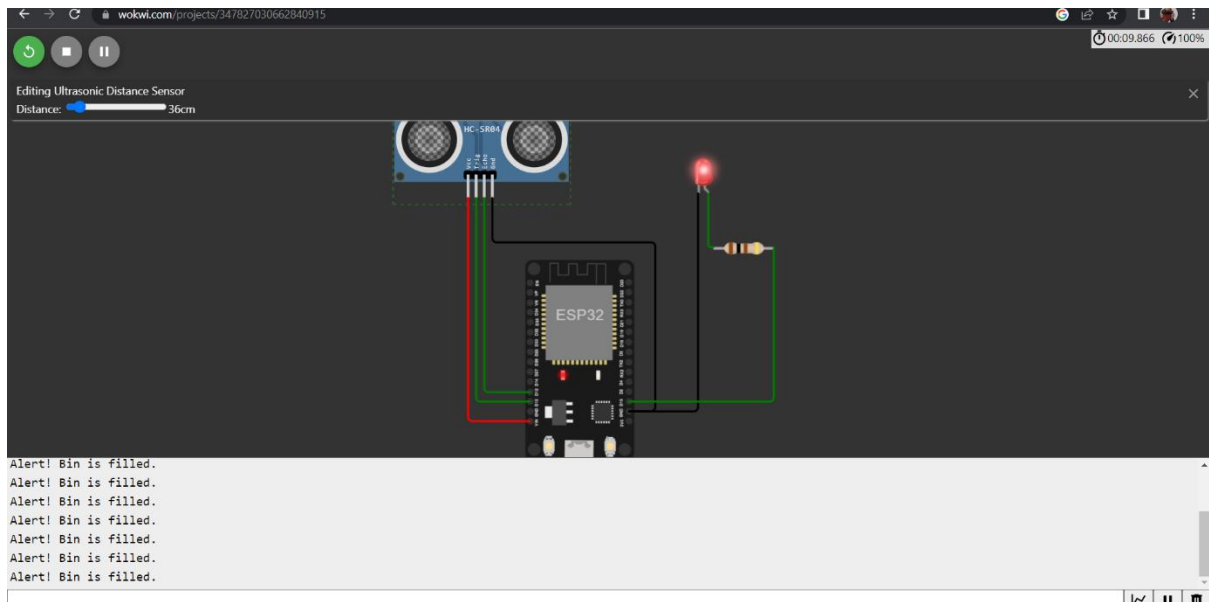
Device circuit:



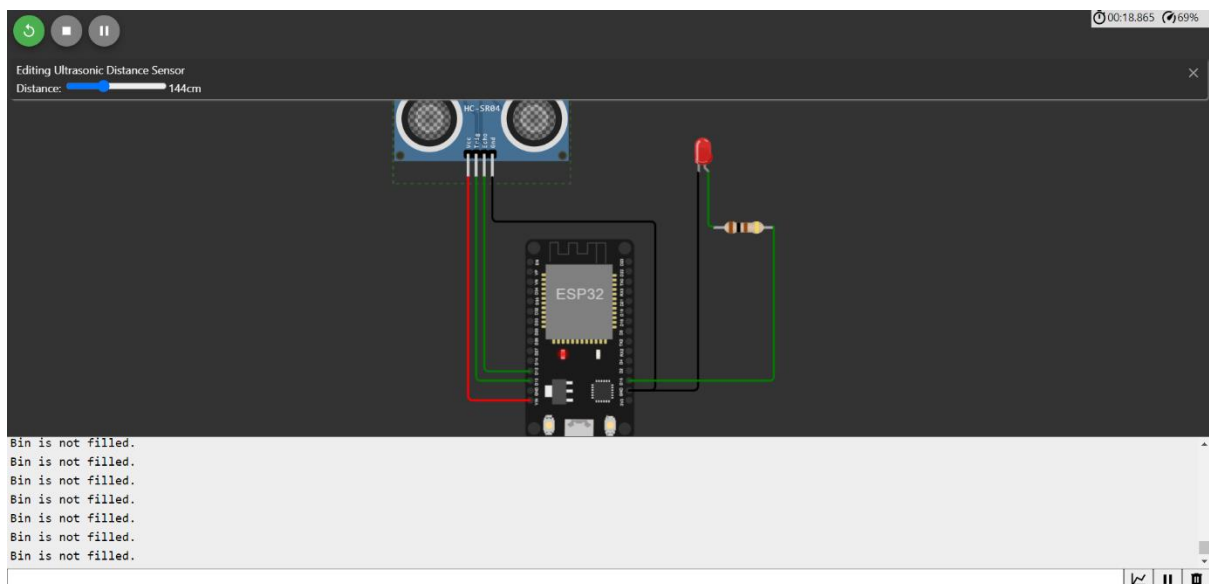
- Esp32 is used in the circuit
- An ultrasonic sensor is used to detect the distance of the waste inside the bin.
- The LED will blink whenever the device detects that the Wastebin is filled

Simulation:

The Device shows the alert When the bin is filled (when the waste is close to the sensor i.e., Distance is less than 100cm)



The device shows the status of the bin - "Bin is nit filled" when the distance is greater than 100cm.



Wokwi simulation link for the device:

<https://wokwi.com/projects/347827030662840915> click here