Delivery of Sprint_1

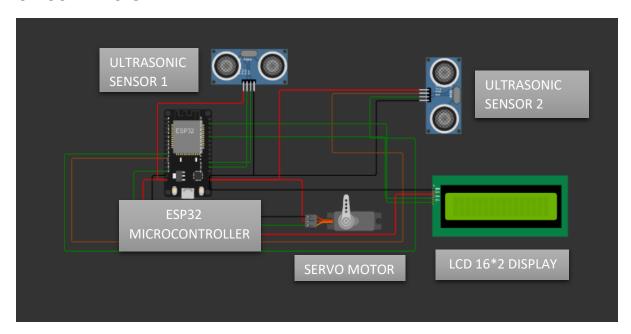
Team ID	PNT2022TMID27888
Project Name	Smart Waste Management System For
	Metropolitan Cities

CIRCUIT CODE:

```
#include <ESP32Servo.h>
#include <LiquidCrystal_I2C.h>
LiquidCrystal I2C LCD = LiquidCrystal I2C(0x27, 16, 2);
Servo servo;
int trigPin1 = 2;
int echoPin1 = 4;
int trigPin2 = 27;
int echoPin2 = 26;
int duration1;
int distance1;
int duration2;
int distance2;
//Servo servo;
void setup(){
  LCD.begin(16,2);
  LCD.init();
  LCD.backlight();
  LCD.clear();
  servo.attach(13);
  Serial.begin(115200);
  pinMode(trigPin1, OUTPUT);
  pinMode(echoPin1, INPUT);
  pinMode(trigPin2, OUTPUT);
  pinMode(echoPin2, INPUT);
void loop() {
  if(distance1 < 10){</pre>
  digitalWrite(trigPin1, LOW);
  delayMicroseconds(2);
  digitalWrite(trigPin1, HIGH);
  delayMicroseconds(10);
  digitalWrite(trigPin1, LOW);
  duration1 = pulseIn(echoPin1, HIGH);
  distance1= duration1*0.034/2;
  Serial.println("The lid is open");
  delay(100);
  else{
```

```
digitalWrite(trigPin2, LOW);
delayMicroseconds(2);
digitalWrite(trigPin2, HIGH);
delayMicroseconds(10);
digitalWrite(trigPin2, LOW);
duration2 = pulseIn(echoPin2, HIGH);
distance2= duration2*0.034/2;
Serial.println("The lid is closed");
LCD.setCursor(0,1);
LCD.print("Fill Status: ");
if(distance2>300 && distance2<=400){</pre>
  LCD.setCursor(12,1);
  LCD.print("25% ");
  Serial.println("Bin status:25%");
else if(distance2 > 200 && distance2<= 299){</pre>
  LCD.setCursor(12,1);
  LCD.print("50%");
  Serial.println("Bin status:50%");
else if(distance2 >50 && distance2<=199){</pre>
  LCD.setCursor(12,1);
  LCD.print("75%");
  Serial.println("Bin status:75%");
else{
  LCD.setCursor(12,1);
  LCD.print("100%");
  Serial.println("Bin status:100%");
if(distance1<=50){</pre>
  servo.write(90);
else{
  servo.write(0);
```

CIRCUIT DESIGN:



OUTPUT:

