#### **CREATING IBM CLOUD SERVICE**

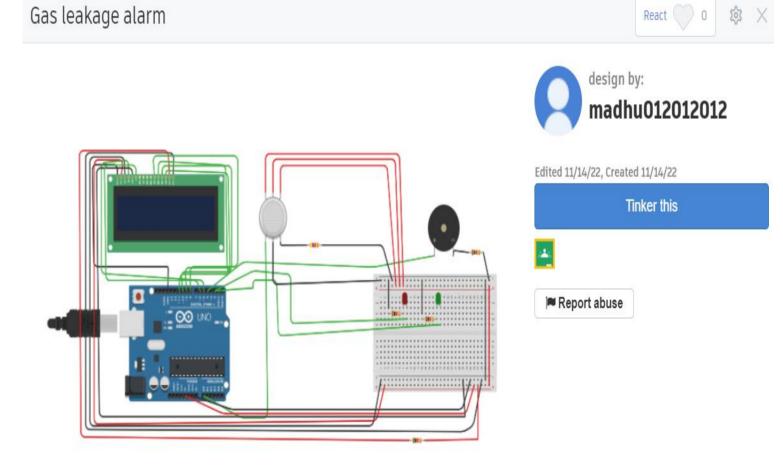
#### FINAL DELIVERABLES

Date	12 November 2022
Team ID	PNT2022TMID00641
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

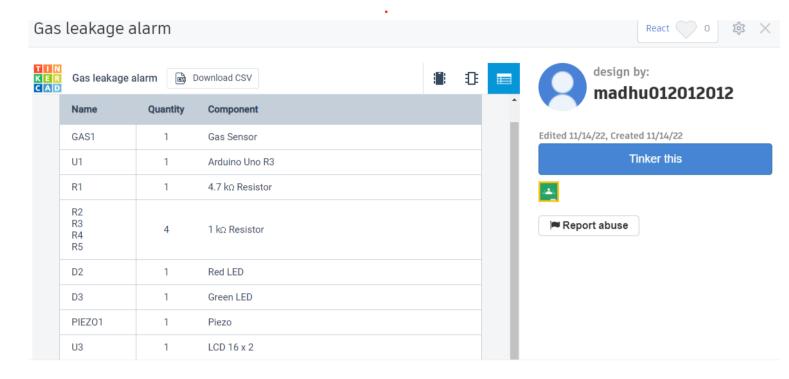
# PROJECT DEMO LINK

https://www.tinkercad.com/things/1xP2c2fgH5y

## Circuit diagram



#### components



### Source code

```
#include <LiquidCrystal.h>
LiquidCrystal lcd(5,6,8,9,10,11);
int redled = 2;
int greenled = 3;
int buzzer = 4;
int sensor = A0;
int sensorThresh = 400;
void setup()
pinMode(redled, OUTPUT);
pinMode(greenled,OUTPUT);
pinMode(buzzer,OUTPUT);
pinMode(sensor,INPUT);
Serial.begin(9600);
lcd.begin(16,2);
}
void loop()
int analogValue = analogRead(sensor);
Serial.print(analogValue);
if(analogValue>sensorThresh)
  digitalWrite(redled,HIGH);
  digitalWrite(greenled,LOW);
```

```
tone(buzzer,1000,10000);
  lcd.clear();
  lcd.setCursor(0,1);
  lcd.print("ALERT");
  delay(1000);
  lcd.clear();
  lcd.setCursor(0,1);
  lcd.print("EVACUATE");
  delay(1000);
 else
 {
  digitalWrite(greenled,HIGH);
  digitalWrite(redled,LOW);
  noTone(buzzer);
  lcd.clear();
  lcd.setCursor(0,0);
  lcd.print("SAFE");
  delay(1000);
  lcd.clear();
  lcd.setCursor(0,1);
  lcd.print("ALL CLEAR");
  delay(1000);
 }
}
```

## output

