## **Sprint-2**

## **Project planning phase**

| Date         | 04 November 2022                              |
|--------------|---|
| Team ID      | PNT2022TMID49514                              |
| Project Name | Project – Gas Leakage Monitoring and Alerting |
|              | System  |

```
gas | Arduino 1.8.18
File Edit Sketch Tools Help
 gas §
#include <LiquidCrystal.h>
LiquidCrystal lcd(2,3,4,5,6,7);
#include <SoftwareSerial.h>
SoftwareSerial mySerial (9, 10);
int gasValue = A0; // smoke / gas sensor connected with analog pin A1 of the arduino / mega.
int data = 0;
int buzzer = 13;
void setup()
 pinMode (buzzer, OUTPUT);
randomSeed(analogRead(0));
mySerial.begin(9600); // Setting the baud rate of GSM Module
Serial.begin(9600); // Setting the baud rate of Serial Monitor (Arduino)
lcd.begin(16,2);
pinMode (gasValue, INPUT);
lcd.print (" Gas Leakage ");
lcd.setCursor(0,1);
lcd.print (" Detector Alarm ");
delay(3000);
lcd.clear();
void loop()
data = analogRead(gasValue);
Serial.print("Gas Level: ");
Serial.println(data);
lcd.print ("Gas Scan is ON");
```

```
gas | Arduino 1.8.18
File Edit Sketch Tools Help
 gas §
lcd.setCursor(0,1);
lcd.print("Gas Level: ");
lcd.print(data);
delay(1000);
if ( data > 90) //
digitalWrite(buzzer, HIGH);
SendMessage();
Serial.print("Gas detect alarm");
lcd.clear();
lcd.setCursor(0,0);
lcd.print("Gas Level Exceed");
lcd.setCursor(0,1);
lcd.print("SMS Sent");
delay(1000);
}
else
 digitalWrite(buzzer, LOW);
Serial.print("Gas Level Low");
lcd.clear();
lcd.setCursor(0,0);
lcd.print("Gas Level Normal");
delay(1000);
lcd.clear();
```