GROUP MEMBERS:-
Yatin Sengar
Rahul Kumar
Abhinav Kumar

BCA-5A
AIIT, NOIDA

AIR QUALITY MONITORING SYSTEM

IOT PROJECT

AMITY INSTITUTE OF INFORMATION TECHNOLGY

I-1 BLOCK, Amity University Uttar Pradesh,

Sector 125, Noida

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IOT doc –Air Quality Monitoring System

1. Objective –

The main objective of these Networks is to record the concentration levels of atmospheric pollutants in order to define air quality levels and establish action plans if high levels of contamination are detected. Other objectives are: Locating contamination problem areas and understanding their space- time changes.

2. Introduction: existing Technology (current)

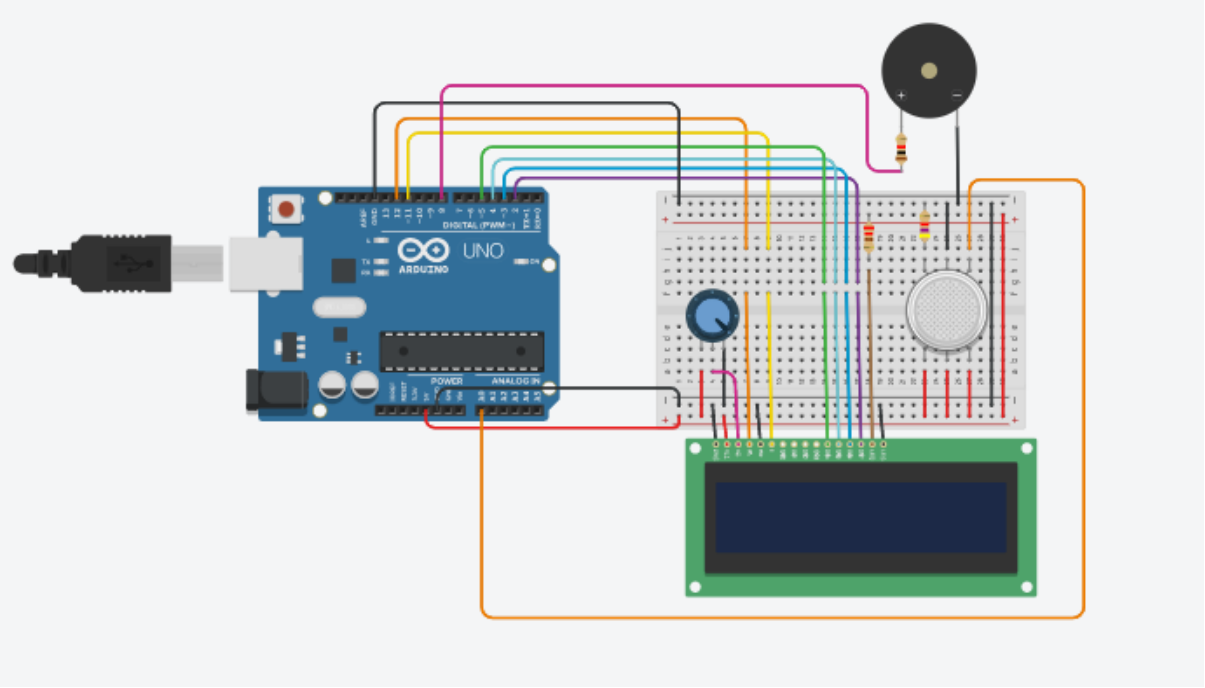
The starting point of air quality monitoring is to first study if an area has an air pollution problem. Monitoring helps in assessing the level of pollution in relation to the ambient air quality standards. Standards are a regulatory measure to set the target for pollution reduction and achieve clean air.

3. Motivation

The data collected from air quality monitoring would primarily help us identify polluted areas, the level of pollution and air quality level. · Air quality monitoring would assist in determining if air pollution control programmes devised in a locality are working efficiently or not.

Data of air quality is also sold to companies who are doing business in air purifier or clean air producing system for betterment of their business.

4. Working of Model with component description



Name	Quantity	Component
		Arduino Uno
U1	1	R3
U2	1	LCD 16 x 2
R1	1	220 Ω Resistor
GAS1	1	Gas Sensor
R2	1	4.7 kΩ Resistor
Rpot4	1	10 kΩ Potentiometer
PIEZO1	1	Piezo
R3	1	1 kΩ Resistor

FUTURE SCOPE

Many cities around the world have adopted the use of pollution sensors to address air pollution. It is likely that over the coming years, sensors will become more commonplace, with cities implementing innovative strategies such as installing sensors onto public transport to help protect residents from the harmful effects of air pollution exposure