ROBOTiX CLUB
National Institute of Technology
Raipur

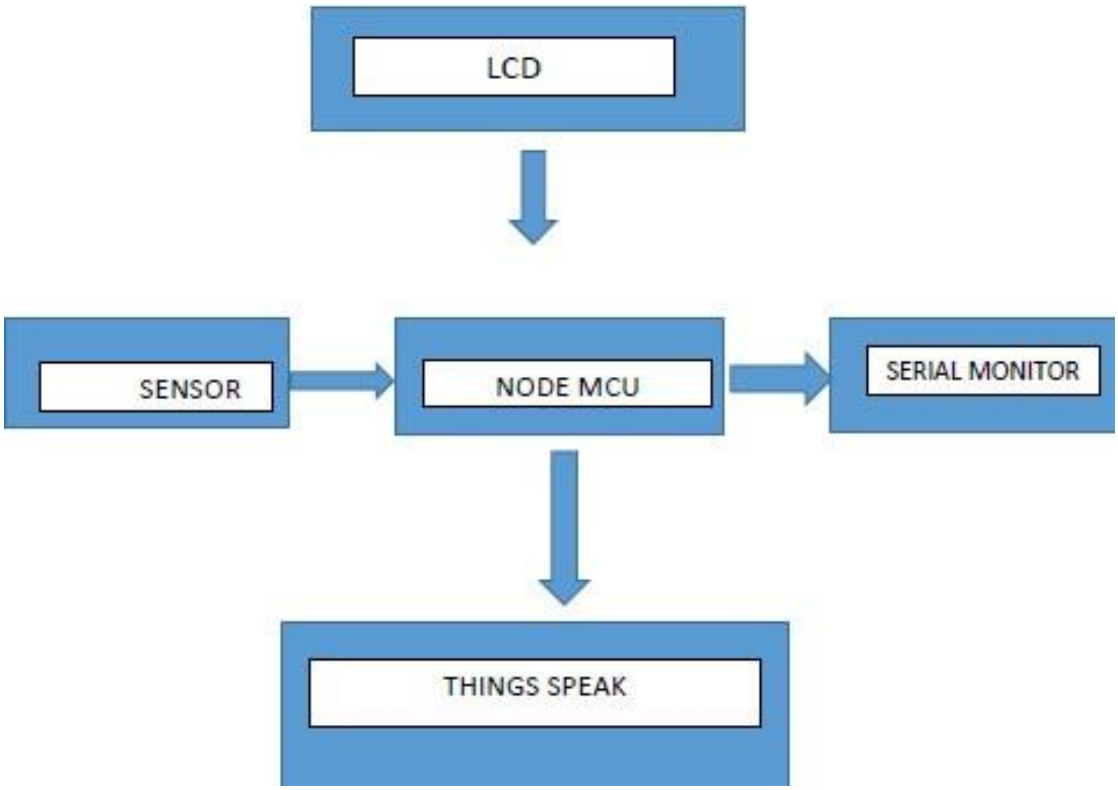
Project Name - Air Quality Sensor

Mentor - Shreyash Ganvir **Members -** Anukriti Das, Shashank Chandrakar, Ashish Kumar

1. Introduction

The project deals with the detecting of the air pollution gases like CO2 , CO , NO2 , SO2 . Our project deals with the detection of the polluting gases like CO2 and CO since this is made on a small scale.

2. Blueprints



3. Working

The MQ-135 sensor detects the air quality and gives the report . We can display it on the serial monitor and within the laptop itself . Now the data received is sent to the things speak app through the NODE MCU . Things speak is an online server that stores the data and plots the graph and it also can be imported from anywhere .
The node mcu is basically the wifi module that connects to the server .

4. Construction

Materials Required

- LED screen
- MQ-135-sensor
- Bread board
- Node MCU
- Jumper wires
- Connector to connect laptop and Node MCU

- **LED SCREEN :-** This displays the quality of the air in ppm (parts per million)

- **MQ-135-SENSOR :-** It is a device used to detect the quality of the air which detects gases like CO2 , CO and other gases .

- **BREAD BOARD :-** This is used to create more pins and create proper connection .

- **NODE –MCU :-** It is an open source IOT program . IT has the complete framework which runs on the ESP 8266 Wifi 50c . It is controlled from local Wifi network .

- **ESP8266 :-** The ESP8266 is responsible for connecting the hardware to the internet and helps us to control from anywhere .