NOISE POLLUTIONMONITOR

Noise pollution is another major form of pollution that is often neglected. Noise pollution however affects over a million people on an every day basis. The most common health issues occurring because of noise pollution include Hearing loss, high blood pressure, Heart diseases, sleep problems, stress, headaches and more. The problem with controlling noise pollution is first detecting I and then trying to silence the noise source each time.

Well this task is not possible manually so we here propose an automatic noise pollution measurement and silencing system. This system can be used in schools, college, libraries, offices to identify is noise levels rise above certain levels and automatically sound alert to notify about noise level so it can be silenced.

The system will provide following advantages:

- Automatic detection of Noise Level
- Display current noise level
- Auto alert if noise level exceeds set amount
- Ability to set allowed noise level as per facility

The system makes use of a set of microphones to accurately measure noise levels in 3 directions. We here use an Arduino based controller to develop this system. The arduino processes noise levels from all microphone sensors constantly.

The user may use the display and buttons on the device to set the max allowed noise levels for the area. The system status is green as long as noise levels are below set mark. As soon as noise levels cross the set level the system sounds a buzzer alert and waits for noise level to go down.

If noise level dosent go down system again sounds an alert and displays a message indicating the noise level is too high. As soon as the people realize noise is high and maintain silence the system again goes back to green mode. Thus the system allows for a smart automatic noise pollution controller system.

Components:

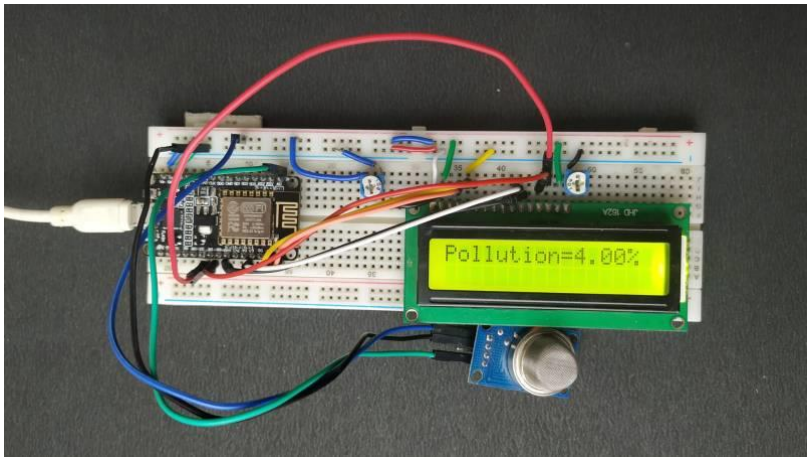
- Arduino Uno
- Microphone Sensors
- LED Indicators
- Buzzer
- LCD Display
- Power Port & DC power Adapter
- Resistors Capacitors
- Diodes & transistors
- Buttons & Switches
- Electrical & Wirings
- PCB Board
- Base frame
- Connectors
- Screws and Fittings
- Supporting Rods

Software Specifications :

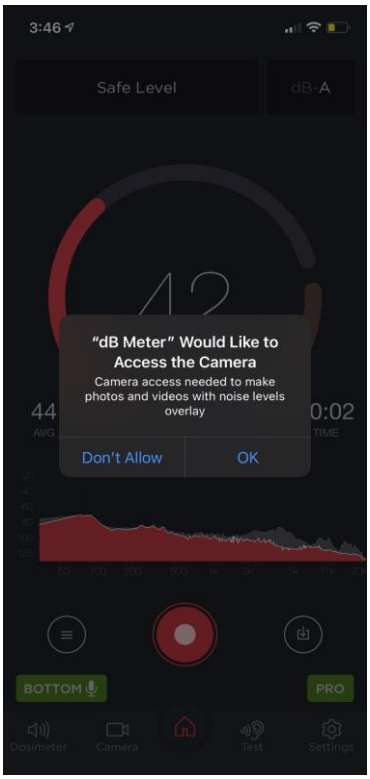
- Arduino Compiler
- MC Programming Language: C

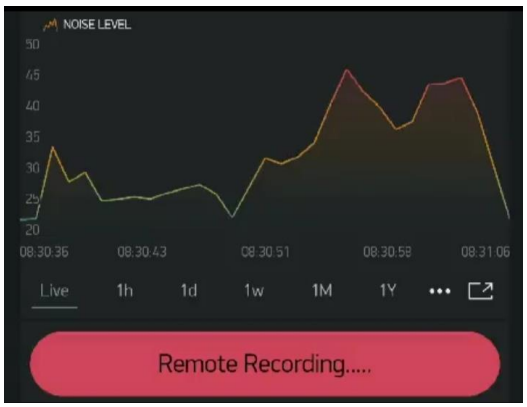
Applications:

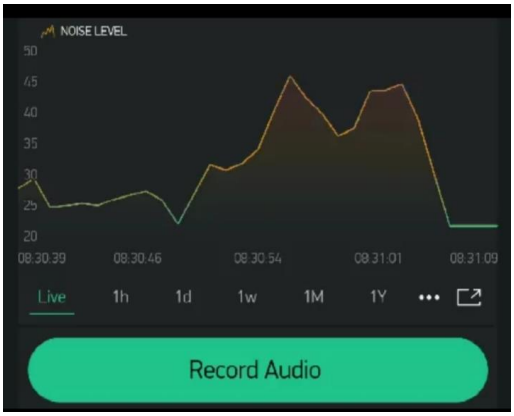
- Libraries
- Schools
- Colleges


Pollution=4.00%


3:48
Safe Level
dB-A
42
44
42
45
00:02
BOTTOM
PRO


3:46
Safe Level
dB-A
"dB Meter" Would Like to Access the Camera
Camera access needed to make photos and videos with noise levels overlay
Don't Allow
OK
BOTTOM
PRO


NOISE LEVEL
50
45
40
35
30
25
20
08:30:36
08:30:43
08:30:51
08:30:58
08:31:06
Live
1h
1d
1w
1M
1Y
Remote Recording.....


NOISE LEVEL
50
45
40
35
30
25
20
08:30:39
08:30:46
08:30:54
08:31:01
08:31:09
Live
1h
1d
1w
1M
1Y
Record Audio