# **Noise Pollution Monitoring System**

### **Development Part – 2**

An application developed for noise pollution monitoring system using MIT App inventor.

## **Application UI Design:**

- ➤ The application UI consists of a text box and a slider which shows the dB (decibels) of the noise produced by the source.
- ➤ The slider shows the noise rate with reference to the color indicator, where the slider will be green when low the low dB is recognized and turns out to be red when it goes higher.
- ➤ The UI can also have a dB meter through which we can maintain the limit of the noise produced by the source.



## **Application Backend Codes:**

The code consists of a screen with a sound pressure sensor which shows the noise levels from the source.

The codes are given below:



#### Working of Application:

When the device senses the noise, it records the dB and sends the measure to the application, and it shows the noise levels through the slider in the application.





```
º⁻₀ pinventor.mit.edu
                                                             +
                                                                             6
set decibal lable. Text to for a form
                                                                get cWeightedDecibels •
         get cWeightedDe
                                     get cWeightedDecibels • "NO RISK-recording studio"
       get CWeightedDec
call UPDATESCREEN
COLOUR (
VALUE (
TEXT (
                                     oels · ≤ · (70)
                                     get cWeightedDecibels •
" NO RISK-normal sound
       call UPDATESCREEN
                       COLOUR
VALUE
TEXT
                                     get cWeightedDecibels •

" RISK-ariplane or concert "
                                      els ▼ (120
       call UPDATESCREEN
                                    get cWeightedDecibels NO RISK-busy traffic or loud radio bibels 150
                         VALUE
TEXT
       get CWeightedDe
                       COLOUR
VALUE
TEXT
                                     get cWeightedDecibels •
" HEARING DAMAGE-explosion "
       call UPDATESCREEN

COLOUR

VALUE

TEXT

** EXTERMELY HIGH RISK**
```