

Idea/Approach Details

Ministry Category : Government of Tamil Nadu

Problem Statement : A Surveillance system for Air Pollution
Monitoring – Warning and Management

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Problem Code :#GTN2

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Idea/Solution/Prototype

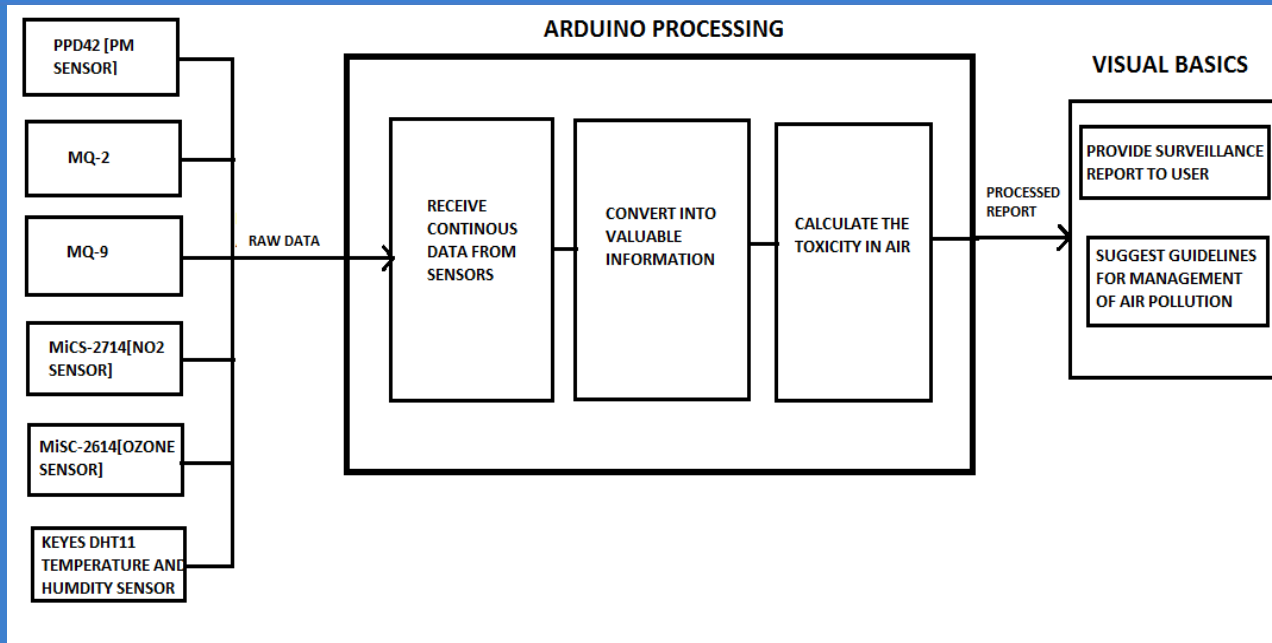
APPLICATION NAME : PAVAN – Air Pollution Detector

SOLUTION: Unlike any other air pollution detectors, PAVAN has the unique ability to provide consistent data on the major air pollutants present in the atmosphere with explicit representation about the status of the area under surveillance. It uses hardware components such as a microcontroller and numerous sensors to detect the pollutants from the atmosphere. Besides which, it is equipped with a completely user-friendly and intractable user design. Moreover, it can suggest and provide guidelines to the native users as to how to control the air pollution in the area. Thus PAVAN acts not only as a pollution detector but a pollution controller.

TECHNOLOGY STACK

- | | |
|-----------------------|-----------------|
| 1.Arduino uno and IDE | 5.MiCS-2714 |
| 2.PPD42 | 6.MiSC-2614 |
| 3.MQ-2 | 7.Keyes DHT11 |
| 4.MQ-9 | 8.Visual Basics |

USE CASE DIAGRAM



DEPENDENCIES/SHOW STOPPER

- <https://youtu.be/5EeE6-xbF6s>
- Knowledge on pollutants and its causative agents.
- Previous records on the surveillance area to compare the efficiency of PAVAN