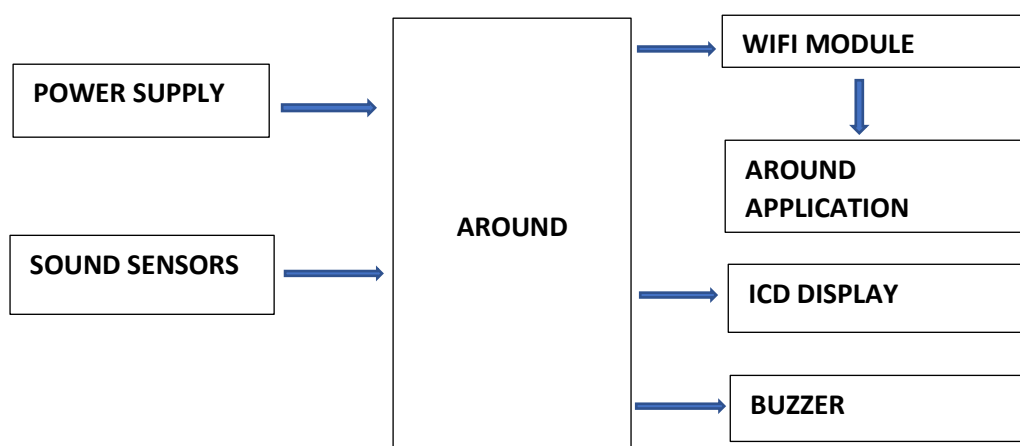# NOISE POLLUTION MONITORING

ABSTRACT

Cities and ecosystems worldwide face environmental and technological issues due to sound pollution and a shortage of sound pollution monitoring locations. To solve these issues, the industry has focused its efforts on building a flexible technology solution that allows for improved noise quality assessment and the supply of reference values in network locations where traditional monitoring falls short. Unfortunately, existing items and their outcomes are not low-cost alternatives. IoT has proven itself in a variety of domains by aiding society, including defense, agriculture, safety, comfort, etc. Pollution is steadily increasing these days, having a severe impact on society. Different types of pollution cause different issues.
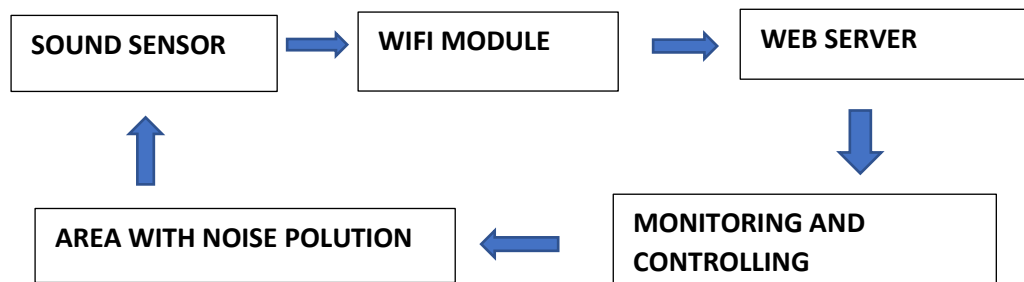
INTRODUCTION

The sensors interact with this data and transmits it over the application. This allows authorities to monitor noise pollution in different areas and act against it. Also, authorities can keep a watch on the noise pollution near schools, hospitals and no honking areas, and if system detects noise issues it alerts authorities so they can take measures to control the issue. Some future consumer applications envisioned for IoT sound like science fiction, but some of the more practical and realistic noise possibilities for the technology include: Receiving warnings on your phone or wearable device when IoT networks detect some physical danger is detected nearby. Self-parking automobiles. The main objective of IOT Noice Monitoring System is that the sound pollution is a growing issue these days. It is necessary to monitor noise quality and keep it under control for a better future and healthy living for all. Due to flexibility and low cost Internet of things (IoT) is getting popular day by day.

BLOCK DIAGRAM:

FLOW CHART:

```
┌──────────────┐      ┌──────────────┐      ┌──────────────┐
│ SOUND SENSOR │ ───▶ │ WIFI MODULE  │ ───▶ │  WEB SERVER  │
└──────────────┘      └──────────────┘      └──────────────┘
        ▲                                           │
        │                                           ▼
┌────────────────────────┐      ┌──────────────────────┐
│ AREA WITH NOISE POLUTION│ ◀── │ MONITORING AND       │
└────────────────────────┘      │ CONTROLLING          │
                                └──────────────────────┘
```

APPLICATION USING:

- Internet of things
- Sensors application in data collection
- IP network communication

This system is made to fulfill the purpose and need of the society to monitor and check the live sound pollution in an area through IOT. These sensors interact with arduino which processes this data and then transmit it over the mobile application. This system would contribute as a part in the building of a healthy society.

CONCLUSION:

In this paper it is concluded that, the system is designed using structured modeling and is able to provide the desired results. It can be successfully implemented as a Real Time system with certain modifications.

REFERENCES:

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