**Velagapudi Ramakrishna Siddhartha Engineering College Department of Information Technology**

Class: 3rdYear Section: B Year: 2020-2021

**HOME AIR MONITORING SYSTEM**

**Motivation:**

The motivation behind this project is the rising indoor air pollution and its harmful and deadly effects on humans. The indoors may include home, work - places, schools or other institution, industries. This abstract has discussed detrimental effects of air pollution on health. IoT can help in monitoring air pollution and in notifying users.

**Problem Description:**

In this project we are going to make an **IoT Based Air Monitoring System** in which we will **monitor the Air Quality over a mobile** and will trigger an alarm when the air quality goes down beyond a certain level, means when there are sufficient amount of harmful gases are present in the air like smoke, gas, temperature and Humidity. It will show the air quality in PPM on the LCD so that we can monitor it very easily.

**Social Benefits:**

* It helps to the people in smart cities.
* Keeps the schools safe.

**Innovation and Uniqueness:**

Our system is build using Arduino, Gas Sensor, Wifi Module. The model is accurate, it’s also computationally efficient and thus making it easier to deploy the model to embedded systems

**Feasible Solution:**

Air pollution is major health hazard for humans and other life forms. It is deadly in nature and is responsible for lung infections, stroke, respiratory problem and impacts cognition. It exists both in outdoor environment and indoor spaces. Indoor air pollution is often under-estimated, but it is 2-4 more times more than outdoor spaces. Thus, monitoring and controlling of indoor air pollution is vital. This is being done using IoT.

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