

## **Phase 1**

### **PROJECT TITLE : AIR QUALITY MONITORING**

#### **Project Definition and Design Thinking**

##### **Project Definition:**

Our project is ,to measure a AIR QUALITY PARAMETERS of our environment using a IOT technology.Air quality sensor(MQ-135) is used to measure the parameters in air like., NO2, CO, O3, and SO2 and create a web platform that provides a real-time air quality information to the public. The collected datas raising awareness to the public about the air quality and its impact on public health . Display real-time air quality information on the web platform, providing updates at regular intervals (e.g., every 15 minutes) to ensure users have monitoring the the current data. Implement an alert system to notify users of significant air quality changes or events, such as high pollution levels or health advisories. Allow users to download raw air quality data for research and analysis purposes. Implement an alert system to notify users of significant air quality changes or events, such as high pollution levels or health advisories. Allow users to download raw air quality data for research and analysis purposes. The Public Air Quality Monitoring Web platform aims to empower the public with real-time information about air quality, enabling individuals, communities to make informed decisions to safeguard their health and the environment. By fostering transparency and awareness, the project contributes to improving air quality and public health.

##### **Design Thinking:**

1. Project Objectives: The main objective of the project is monitoring the air quality parameters using the IOT technology and display the real time air quality parameters to the public for awareness about the impact on their human health and air quality of our environment.
2. IoT Devices Designs: We using a MQ-135 air quality sensor for measuring the real-time air quality in our environment and we use a Nodemcu board for controlling the device and also used to send the information from the device to the Web platform.
3. Data Sharing Platform: We developing a Web platform for display the air quality and creating awareness to the public. WiFi module is used to send the data from the device to Web platform.e air quality and creating awareness to the public. WiFi module is used to send the data from the device to Web platform.
4. Integration Approach: WiFi module is used to connect the IOT devices to internet for shareing the information to the Web platform.

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