

Problem Definition and Design Thinking

In this part you will need to understand the problem statement and create a document on what have you understood and how will you proceed ahead with solving the problem. Please think on a design and present in form of a document.

Project Definition: The project involves setting up IoT devices to measure air quality parameters and make the data publicly available for raising awareness about air quality and its impact on public health. The objective is to create a platform that provides real-time air quality information to the public. This project includes defining objectives, designing the IoT monitoring system, developing the data-sharing platform, and integrating them using IoT technology and Python.

Design Thinking

Project Objectives: Define specific objectives such as real-time air quality monitoring, data sharing, public awareness, and health impact.

IoT Devices Designs: Plan the design and deployment of IoT devices (sensors) to measure air quality parameters.

Data Sharing Platform: Design a web-based platform to display real-time air quality data to the public.

Integration Approach: Determine how IoT devices will send data to the data-sharing platform.