

Project Design Phase-I

Solution Architecture

Date	30th September 2022
Team ID	40785-1660634822
Project Name	Gas leakage Monitoring & Alerting system for Industries
Maximum Marks	4 Marks

Problem Statement:

There should be a way to monitor the gas pipelines continuously and detect early if there is any leakage of gas in the surroundings so that the industry workers can be alerted immediately and they can work efficiently rather than worrying about monitoring or leakage of gas leakage. This will indeed reduce the manpower of that industry and create a peaceful environment.

Solution Architecture:

The solution system is designed to initiate with the placement of gas detecting sensors at the gas leakage prone surroundings. They are meant to provide the first line of defence against the possible disasters of gas leakage. The sensors are placed within their radius of sensing. The sensors are embedded to the microcontrollers which serves as the central component. When there is an occurrence of detection the respective action is done by the microcontroller such as sending alerts to the workers for evacuation and alerts for further assistance.

