Project Design Phase-I
Solution Architecture

Date	19 September 2022
Team ID	PNT2022TMID46726
Project Name	Hazardous Area Monitoring for Industrial Plant powered by IoT
Maximum Marks	4 Marks

Solution Architecture:

Today there is a great challenge in the development of industrial hazardous safety monitoring for the application of gas leaks, fire, smoke, radiation etc.
In all related fields of investigation, a key matter is the need flexible and practical virtual instruments, a way to easily expose the multi-sensors to the hazardous levels in risk concentration. The implementation of wireless sensor network provides an alternative solution by deploying a larger number of disposable sensor nodes.
The Sensor data may consist of industrial environmental parameters like critical temperature, gas leakage, radiation, fire, smoke and the dynamic variations of these physical quantities.
This software platform is in the terms of virtual instruments developed under Lab VIEW programming environment and integrated with computer controlled system.

Example - Solution Architecture Diagram: