

## **Project Design Phase-I Solution Architecture**

<b>Date</b>	22 September 2022
<b>Team ID</b>	PNT2022TMID28556
<b>Project Name</b>	Gas Leakage Monitoring and Alerting System for Industries
<b>Maximum Marks</b>	4 Marks

### **Solution Architecture:**

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.
- Define features, development phases, and solution requirements.
- Provide specifications according to which the solution is defined, managed, and delivered.

### **Solution Architecture Diagram:**

- Gas Leakage Monitoring & Alerting System for Industries has all the features as explained below
- This project helps the industries in monitoring the emission of harmful gases.
- In several areas, the gas sensors will be integrated to monitor the gas leakage.
- If in any area gas leakage is detected the admins will be notified along with the location.
- The admins can view the sensor parameters that is sent to them through the Wi-Fi module.
- The system also provides indication through an LCD display, buzzer and turns on the exhaust fan on detecting gas leakage.



SERVER



SMART  
PHONE



USER

ARDUINO  
UNO



PIR SENSOR



GAS SENSOR

