

Project Design Phase-I
Solution Architecture

Date	25 September 2022
Team ID	PNT2022TMID06977
Project Name	Gas Leakage monitoring & Alerting system for Industries
Maximum Marks	4 Marks

Solution Architecture:

- 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
- In the web application, admins can view the sensor parameters.
- The traditional Gas Leakage Detector Systems though have great precision, fail to acknowledge a few factors in the field of alerting the people about the leakage.
- Therefore we have used the IoT technology to make a Gas Leakage Detector having Smart Alerting techniques involving calling, sending text message and an e-mail to the concerned authority and an ability to predict hazardous situation so that people could be made aware in advance by performing data analytics on sensor readings.
- IoT technology to make a Gas Leakage Detector having Smart Alerting techniques involving calling, sending text message and an e-mail to the concerned authority and an ability to predict hazardous situation so that people could be made aware in advance by performing data analytics on sensor readings.

Solution Architecture Diagram:

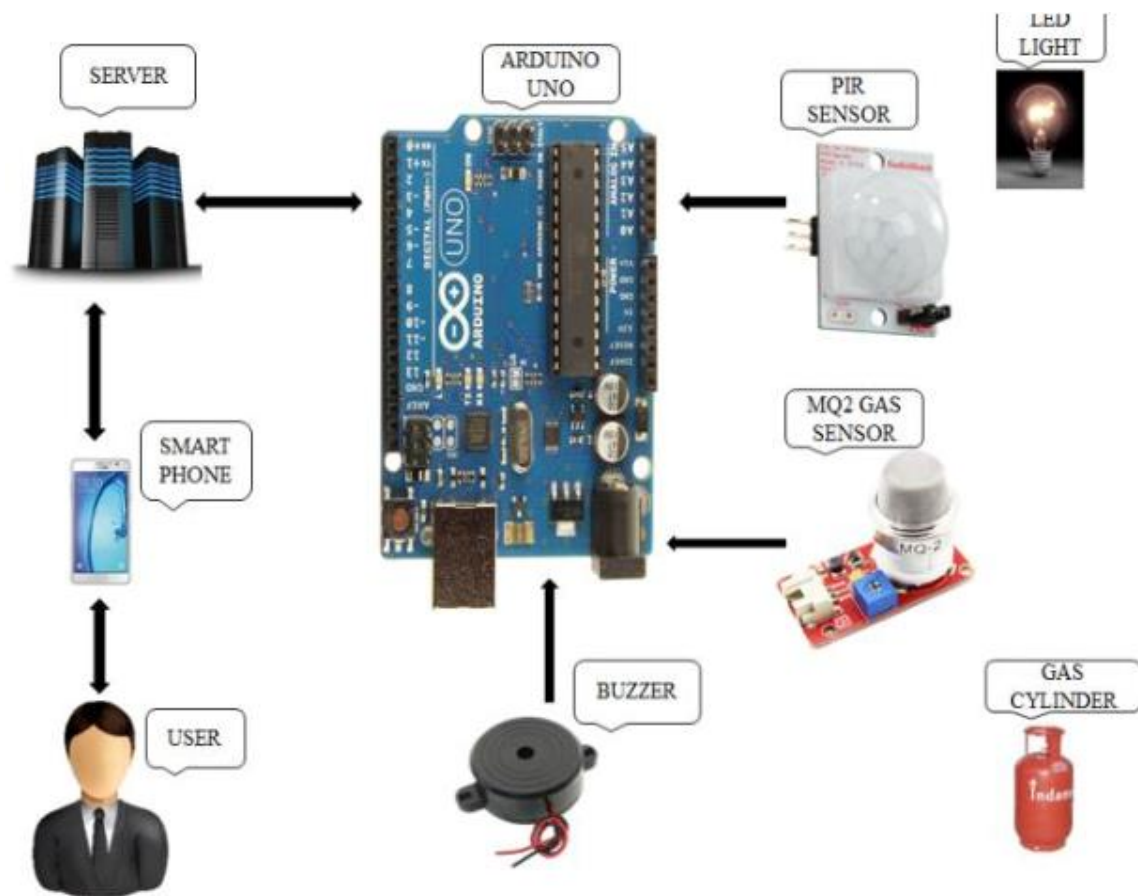
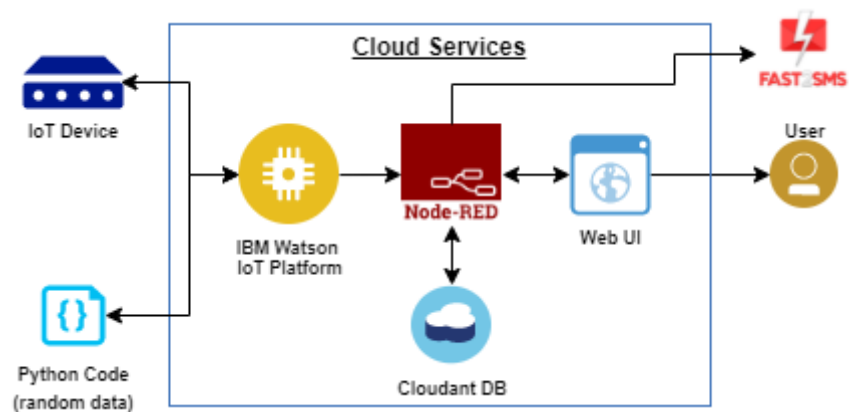


Figure 1: System Architecture

Technical Architecture:



Reference:

https://careereducation.smartinternz.com/Student/guided_project_workspace/2995

<https://www.semanticscholar.org/paper/Smart-System-for-Human-Presence-Detection-and-Gas-Chaudhari-Sayyad/5e844bf68664c5928277ad4a88e7bfa2d1891bc5/figure/4>