Project Design Phase-I
Solution Architecture

Date	19 November 2022
Team ID	PNT2022TMID30401
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.
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Solution Architecture Diagram:

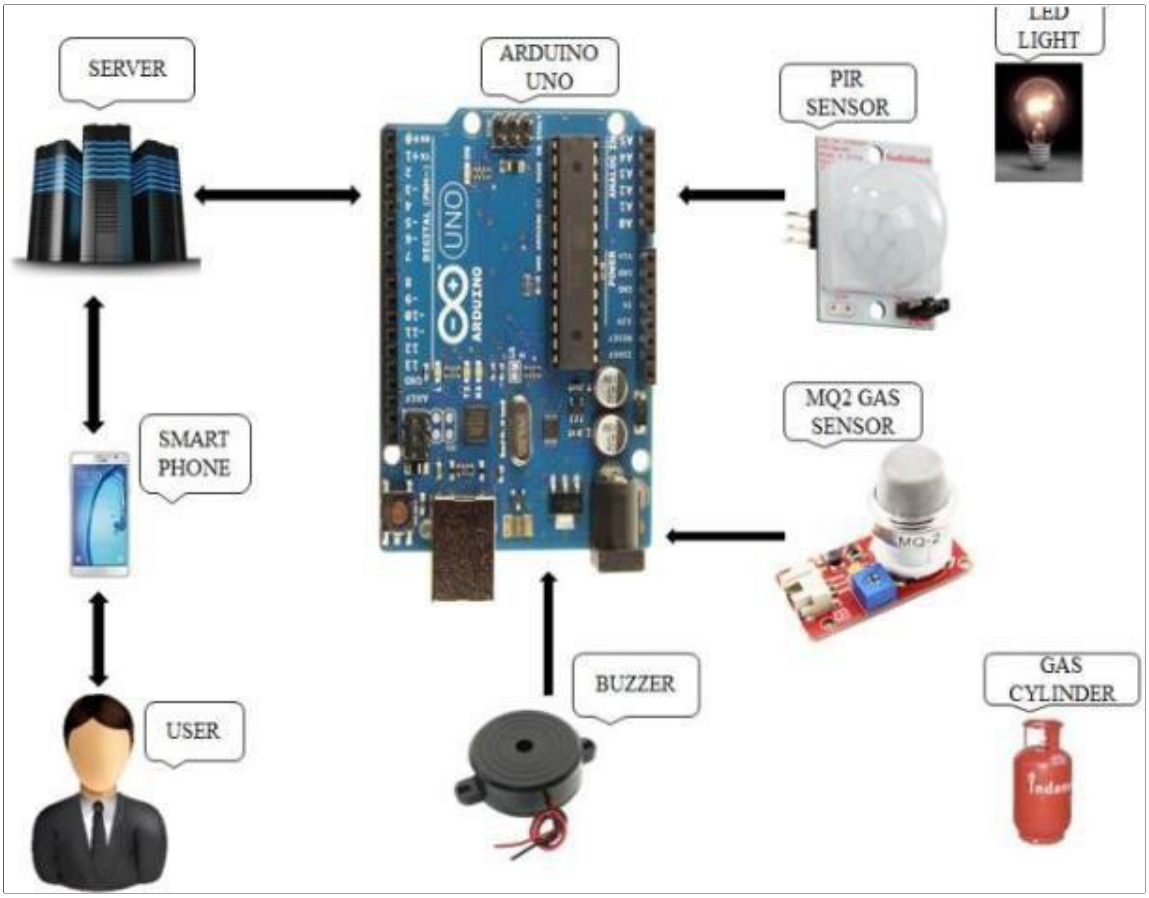
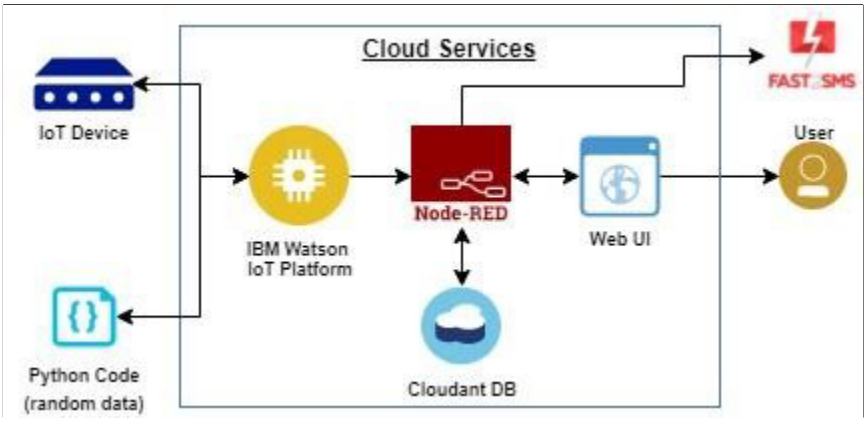


Figure 1: System Architecture

Technical Architecture:



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

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