GAS LEAKAGE MONITORING AND ALERTING SYSTEM

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PROBLEM STATEMENT:

Gas leakage leads to various accidents resulting into both financial loss as well as human injuries. In human's daily life, environment gives the most significant impact to their health issues. Here in this project, we have all the features shown below.

ABSTRACT:

Internet of Things aim towards making life simpler by automating every small task around us.As much is IOT helping in automating tasks, the benefits of IOT can also be extended for enhancing the existing safety standards. Safety, the elementary concern of any project, has not been left untouched by IOT. Gas Leakages in open or closed areas can prove to be dangerous and lethal. 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 for society which having Smart Alerting techniques involving sending text message to the concerned authority and an ability performing data analytics on sensor readings. Our main aim is to proposing the gas leakage system for society where each flat have gas leakage detector hardware. This will detect the harmful gases in environment and alerting to the society member through alarm and sending notification and automatically cut off main power supply .

IDEA:

The main aim of this project is developing a system that can detect gas leakage . On detection it will send an alert SMS and the main power supply will be switched off automatically.

TECHNICAL STACK:

- PYTHON
- IBM Cloud
- Node-Red
- IBM IoT Platform
- MIT App Inventor
- IBM cloud DB
- GSM