IBM PROJECT

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10 minutes to prepare
1 hour to collaborate
2-8 people recommended

Project title:

GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

10 minutes

PROBLEM STATEMENT:

Gas leakage is an important aspect to be noted as it can major damage when ignored. It is important to raise an intimation when the gas leakage surpasses certain threshold values. Surveys state that in the oil and gas industry, gas leakage problems occur frequently and lack of proper intimation at those situations leads to hazard. IoT can be utilized for efficient and easy monitoring of gas leakages on a continuous basis and from any distance.

PROBLEM STATEMENT
What problem are you trying to solve?

BRAINSTORM
Ideas that come to your mind that address the problem statement.

GROUP IDEAS AND PRIORITIZE
Take turns sharing the ideas while clustering similar or related notes.

Prioritize
Place your ideas on this grid to determine which ideas are important andwhich arefeasible.

20 minutes

Brainstorm
Methodology proposed.

10 minutes

When leakageis sensed, an alert is given through LCD and buzzer.

Data collectedfrom

TEAM LEAD: MOTHIKA R

TEAM MEMBER: MANI K V

Group ideas
Take turns sharing your ideas while clustering similar or related notes.

20 minutes

PROBLEM

GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR

Using Dtabase for input and output page on input type

Using Pickle Separate input output page

Single Based

Angular Page

Flask

Microcontroller continuously monitors the data.

On reaching a certain threshold value, an intimation is given.

displayed and sent tconcerned

Data collected from appropriate sensors.

When leakage is sensed, an alert is given through LCD and buzzer.

TEAM MEMBER: SREE VARSHA S V

appropriatesensors.

TEAM MEMBER: PADMESH G N

The system comprises of a Wi-Fi module which is responsible to intimate the gas status

If leakage is detected the alarm beeps and the exhaust fan turns on.

Simultaneously the valve closes and the leakage alert is displayed on LCD and sent to the concerned person

Once the gas level subsides, the gas valve opens and the regular process takes place.

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Wi-Fi modul

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intimate the gas
status

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If each of these tasks could get done without any delay or lack, which would have the most positive impact?

Microcontroller continuously

alarm be
and the
fan turns

If leakage
detected

the da

On reaching a
certain
threshold value,
an intim ation is

given.

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Template

Share template feedback

Need some inspiration?

of this template to kickstart your work.

Open example