

Brainstorm

Write down any ideas that come to mind that address your problem statement.

🕒 10 minutes

TIP



You can select a sticky note and hit the pencil [switch to sketch] icon to start drawing!

Content

Gas leakage detection	Gas leakage Alerting	smart alert system
Gas leakage warning generator	Sensor based gas leakage system	Automatic gas leakage turnoff
Smart gas detection system	Home and industrial safety system	Gas leakage control system

Advantages

Simple gas detector is its simplicity and its ability to warn about the leakage of LPG gas	Leakage detection and alert system to avoid fire accidents	This system measures the amount of LPG present in the cylinder
This system is low cost, low power, portable, safe and user friendly	The PIR sensor detects the presence of human near the kitchen and the valve is turned off when human is not detected inside the kitchen	LPG gas detection system is an important safety measure for public safety and domestic appliances
The leakage is detected and stopped within 2 seconds	The system detects the presence of natural gas and send alert signals to the users	This system turnoff regulator knob of the cylinder when gas leakage detected

Features

Data which is received through sensors are not stable or are more than threshold it will predict that there is leakage situation	It work only when at 5v power supply is given	Its sensitivity depends on humidity and temperature
It measures toxic gases in very low concentrations	It has ability to detect wide range of gases	Its difficult to know failure modes unless very advanced methods of monitoring are used
A gas detector can sound an alarm to operate in the area where the leak is occurring giving them the opportunity to leave	It is used in house as an leakage detection	It is possible to get instantaneous results and with high accuracy

Technology

GSM technique	LED and buzzer to alert people	WiFi using ESP8266 WiFi module
IoT with Embedded sensors	Sensors using IoT	Arduino UNO
AT89s52	Semiconductor Sensors	GSM and IoT