

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID50840
Project Name	Gas leakage monitoring and alerting system
Maximum Marks	4 Marks

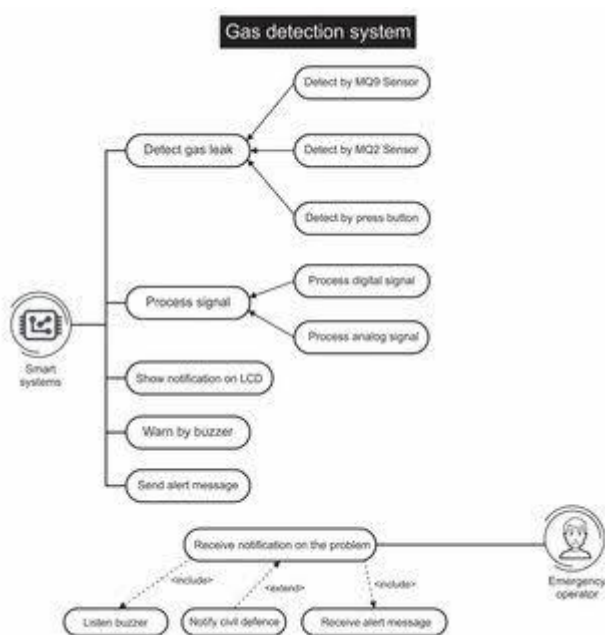
Gas leakage monitoring and alerting system :

According to regulations, all ships are required to carry calibration gases for portable gas detectors. These gases can often be difficult to obtain in ports on short notice. Furthermore, gas cylinders have a limited shelf life which requires them to be replaced at certain intervals.

By purchasing them in a structured manner, both time and money can be saved, and the ship will always have the correct type available on board.

Reference: <https://www.mural.co/templates/empathy-map-canvas>

Step-1: Team Gathering, Collaboration and Select the Problem Statement



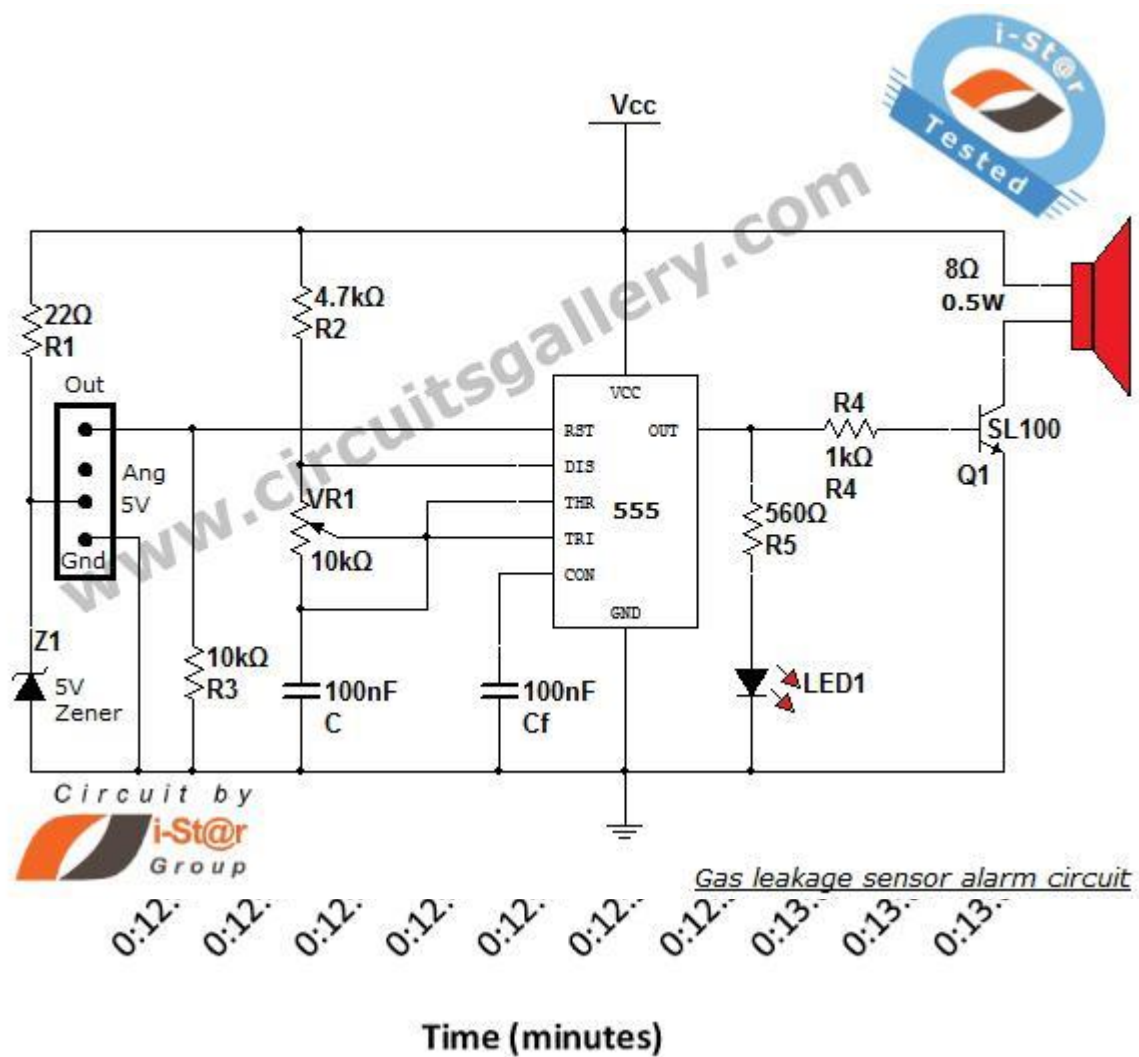
CONCLUSION

- The paper presents a low-cost, low power and simple system for device control while LPG gas leakage or fire situations..
- This system will have high application in industries and houses where it has been a bigger challenge for safety measures .
- Future modification may include addition of micro controller and GSM module for concentration detection and SMS system
- And our project will prove to be boom for households and industries.

APPLICATIONS

- a) Protection from any gas leakage in cars
- b) For safety from gas leakage in heating gas fired appliances like boilers, domestic water heaters
- c) Large industries which uses gas as their production
- d) For safety from gas leakage in cooking gas fired appliances like ovens, stoves etc.

Step-2: Brainstorm, Idea Listing and Grouping



Step-3: Idea Prioritization

Detection of Gas Leakage in Dangerous Condition

