

Project Design phase-II

Data Flow Diagram & User Stories

Date	16 October 2022
Team ID	PNT2022TMID52179
Project Name	Gas Leakage Monitoring And Alerting System
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes this information and where data is stored.

Example:

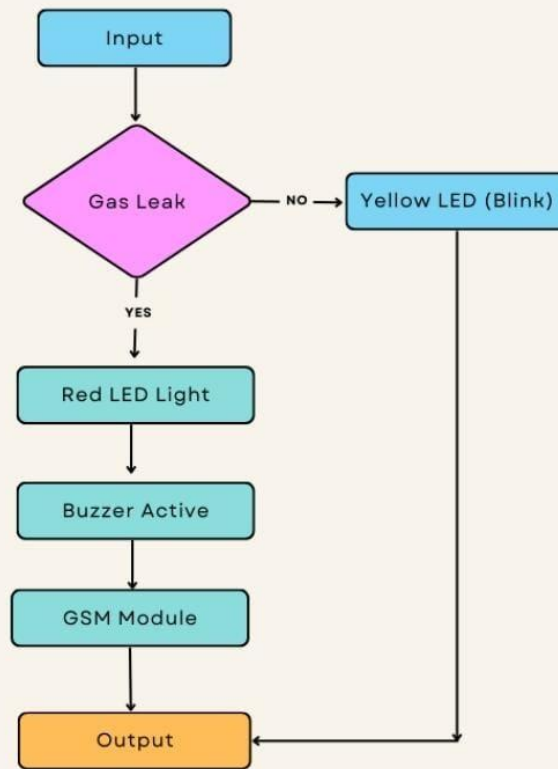
Data Flow Diagram:

Output unit (LCD, sound circuit, relay driven circuit, light alarm).

Power supplier.

User or people alertness alarm system logic detector circuit.

FLOWCHART : GAS LEAKAGE MONITORING AND ALERTING SYSTEM



User & Stories:

Gas detected	EX, toxic gases
Display	OLED display
Response time	T90<30S
Accuracy	<+5%F. S
Signal output	4-20mA/RS485
Power supply	18-28VDC
Relay output	1 passive relay
Indicator light	Power, fault, alarm-1, alarm-2

Advantage:

Built-in relay and compatible with sound light alarm

Full English menu, remote control operation. Complete product certification(ATEX, SIL, CCCF, etc.)