

PROJECT DESIGN PHASE – 1

PROBLEM SOLUTION FIT

Team ID	PNT2022TMID52298
Project Name	Gas Leakage Monitoring and Alerting System

- **PROBLEMS:**

- Having no proper system for controlling or monitoring the leakage.
- Suffering from many losses due to gas leakage.
- Facing heavy budget problems in buying and installing a system for monitoring and controlling.

2.CUSTOMER CONSTRAINT:

- High budget in installing other products.
- The industrialists who use gases for their manufacturing.The detection of leakage prevents the loss of lives.
- Complexity in installation.

3.CUSTOMER SEGMENT:

- Hospitals.
- Gas, Polymer Industries.

4. AVAILABLE SOLUTIONS:

- Upgrading to a premium network plan.
- Buzzer to indicate the leakage.GSM module helps us to get notification when there is a gas leakage.Usage of sensors to sense gas Leakage.

5. PROBLEM ROOT CAUSE:

- Location of the device installation and the network plan used by the user are the cause of network issue.
- Man power could reduce electricity cost and monitor properly, it may cause high risk for their life. There is also a cause of some errors due to manpower.

6. BEHAVIOUR:

- To determine the gas characteristics and solve the issue, they will locate the leak and identify the warning.
- Network issue is very common as most of the industries are located at the country side. Here they contact both the developers and the service providers.

7.CHANNELS BEHAVIOR:

- Prevent physical damage to sensor. Through newspaper advertisements and complaint letters.