Problem Solution

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Team ID	PNT2022TMID25430
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM
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Define CS

1. CUSTOMER SEGMENT(S)

6. CUSTOMER

5. AVAILABLE SOLUTIONS

It targets industry owners and workers. The main aim is to ensure the safety of workers from gas leakages that may occur in an industry.

To make sure that gas does not leak from anywhere, proper and regular maintenance must be done on the equipment. This might be expensive.

Sensors can be used to detect gas leakage and a buzzer can indicate the same. If there is a gas leakage, GSM module helps us to get appropriate notifications. This might be easier to implement but can be more expensive.

2. JOBS-TO-BE-DONE / _ **PROBLEMS**

Due to certain network or connectivity issues, the reliability of data transfer in the real time system might be affected. The system might not withstand extremely harsh environmental conditions.

9. PROBLEM ROOT CAUSE RC

Gas leakage might be caused due to usage of unreliable metal to metal seals or poor tubing during the construction of gas

7. BEHAVIOUR

Regular inspections can be done to find out areas in which there are gas leakages. Some detection systems can be hardwired to detect leaks. In the case of wireless systems, if there are network issues, the service provider or the helpline can be contacted.

3. TRIGGERS

customers to take action.

10. YOUR SOLUTION

8.CHANNELS of BEHAVIOUR 8.1 ONLINE

there is any gas leakage.

Reports in the news about the accidents To develop a cost effective IOT based due to gas leakage and concern for the system that can be easily accessed and safety of workers might encourage manipulated by the customers so that gas leakages are detected at the earliest

8.2 OFFLINE

Ensure that proper network and power is supplied to the system for it to work efficiently and prevent any physical damage that might occur to the sensor.

The status of the sensor is continuously

monitored and notification is received if

4. EMOTIONS: BEFORE / AFTER EM



When a problem arises suddenly, the user might feel confused and scared and when the problem is resolved, the user might feel relief and a sense of success.

possible time.