

Project Title: Gas Leakage Monitoring and Alerting System

Project Design Phase-I - Solution Fit Template

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Define CS, fit into CC

1. CUSTOMER SEGMENT(S)

CS

1. Our customers are the people working in gas agencies and gas distributive vehicles where there is collection of LPG gas cylinders.
2. The people living in residential building who are using the LPG gas cylinders for cooking.
3. The people in the industry sector to detect the gas leakage.
4. In Hospital to detect the gas leakage.

6. CUSTOMER CONSTRAINTS

CC

1. Proper alerting system is not available.
2. Detection of gas is difficult in open space.
3. Not able to detect all types of gas.

5. AVAILABLE SOLUTIONS

AS

1. Can call 24/7 to gas agency.
2. Proper awareness is needed.
3. Turning off gas cylinders directly.

Explore AS, differentiate

Focus on J&P, tap into BE, understand RC

2. JOBS-TO-BE-DONE / PROBLEMS

J&P

1. Altering system is available for 24/7.
2. Can detect the different types of gas.
3. Automatically turning off the gas cylinders during the gas leakage.
4. Notification is send to customers.

9. PROBLEM ROOT CAUSE

RC

1. Carelessness of customers.
2. Improper design of cylinders.
3. Nozzle of cylinders is not monitored properly.
4. Gas leakage through damaged gas pipes in industries.

7. BEHAVIOUR

BE

1. Using the higher quality gas sensor.
2. Proper alerting system.
3. Automatic detection.

Focus on J&P, tap into BE, understand RC

3. TRIGGERS

TR

1. Advertisement.
2. User experience of neighbours and relatives.
3. Customer friendly.

4. EMOTIONS: BEFORE / AFTER

EM

1. Automatically taking the precautions steps and without this product only manual steps are needed.
2. Confident in customers for using the LPG cylinders after the introduction of this product.
3. Even if people can't able to detect the gas, this product can identify the gas leakage.

10. YOUR SOLUTION

SL

1. If there is gas leakage, alarm rises.
2. Automatically turning off the gas cylinders.
3. Sending notification to the customers by message or call using IOT.

8. CHANNELS of BEHAVIOUR

CH

8.1 **ONLINE**

1. Automatically turning off the gas cylinders by seeing the notification message using IOT.

8.2 **OFFLINE**

1. Manually Turning off the gas cylinders.
2. Contacting gas agencies.