

Project Design Phase-I

Problem – Solution Fit Template

Date	11 October 2022
Team ID	PNT2022TMID16758
Project Name	Gas Leakage Monitoring And Alerting System
Maximum Marks	2 Marks

Problem – Solution Fit Template:

The Problem-Solution Fit simply means that you have found a problem with your customer and that the solution you have realized for it actually solves the customer's problem. It helps entrepreneurs, marketers and corporate innovators identify behavioral patterns and recognize what would work and why

Purpose:

- ➔ Solve complex problems in a way that fits the state of your customers.
- ➔ Succeed faster and increase your solution adoption by tapping into existing mediums and channels of behavior.
- ➔ Sharpen your communication and marketing strategy with the right triggers and messaging.
- ➔ Increase touch-points with your company by finding the right problem-behavior fit and building trust by solving frequent annoyances, or urgent or costly problems.
- ➔ **Understand the existing situation in order to improve it for your target group.**

Template:

Problem-Solution Fit canvas		Purpose / Vision		Version:	
Define CS, fit into CL	1. CUSTOMER SEGMENT(S)	CS	6. CUSTOMER LIMITATIONS E.G. BUDGET, DEVICES	CL	5. AVAILABLE SOLUTIONS PLUSSES & MINUSES
	Workers in industry Owner of the industry		Small leaks can cost facilities thousands of dollars. Installation of the setup is expensive		Switch off the gas line Usage of sensors like MQ5, MQ6 to detect the gas
Focus on PR, tap into BE, understand RC	2. PROBLEMS / PAINS - ITS FREQUENCY	PR	9. PROBLEM ROOT / CAUSE	RC	7. BEHAVIOR - ITS INTENSITY
	Industrial development gives rise to harmful gas Releases Apart from polluting the atmospheric air, such leaks create hazards for worker		Lapses in prevention maintenance lead to faulty Pipelines & equipment Leakage at the connect points		Smell – Some gas has <u>smell</u> , Sight – Can also be seen Sound – Leakage sound of gas
Identify strong TR & EM	3. TRIGGERS TO ACT	TR	10. YOUR SOLUTION	SL	8. CHANNELS of BEHAVIOR
	Poor Ventilation		Here we use MSP sensor which is the latest <u>sensor detect</u> the gas leakage accurately. The sensors sends message at the end of week to check the sensors <u>workly</u> , properly or <u>not</u> .		ONLINE The sensor <u>detect</u> the leakage and upload these data on cloud OFFLINE Buzzer and LCD Display
	4. EMOTIONS BEFORE / AFTER	EM			
	BEFORE: The smell of sulfur or rotten eggs, A while cloud or dust cloud near a gas line AFTER: Breathing difficulties, dizziness, nausea, pain in the <u>chest</u>				

