

Project Design Phase-I Problem – Solution Fit

Date	28 September 2022
Team ID	PNT2022TMD17850
Project Name	Gas Leakage monitoring & Alerting system for Industries
Maximum Marks	2 Marks

Problem – Solution Fit :

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 2.0

Project Title: Gas Leakage Monitoring and Alerting System for Industries

Team ID: PNT2022TMD19555

<div style="background-color: #f0f0f0; padding: 2px; font-size: 0.8em; margin-bottom: 5px;">1. CUSTOMER SEGMENT(S) CS</div> <div style="border: 1px solid #ccc; padding: 5px;"> <p>In Industry we have to ensure the safety of workers because we don't know the whether the gas leakage is occur.</p> <p>In home, we use gas stove for cooking purpose . To identify the leakage use some external device.</p> </div>	<div style="background-color: #f0f0f0; padding: 2px; font-size: 0.8em; margin-bottom: 5px;">6. CUSTOMER CONSTRAINTS CC</div> <div style="border: 1px solid #ccc; padding: 5px;"> <p>To prevent the gas leakage,the industries must use quality pipes to transfer the gas.</p> <p>Maintenance should be taken atleast once in a month to prevent the gas leakage and services are done by technicians.</p> </div>	<div style="background-color: #f0f0f0; padding: 2px; font-size: 0.8em; margin-bottom: 5px;">5. AVAILABLE SOLUTIONS AS</div> <div style="border: 1px solid #ccc; padding: 5px;"> <p>Use GSM module to your product it will send the alert notification to concerned user.</p> <p>In devices,we use sensor to sense the gas leakage .</p> </div>
<div style="background-color: #fff9c4; padding: 2px; font-size: 0.8em; margin-bottom: 5px;">2. JOBS-TO-BE-DONE / PROBLEMS J&P</div> <div style="border: 1px solid #ccc; padding: 5px;"> <p>In Industries, they transfer the gas through pipelines and if they use qualityless pipes it can cause gas leakage.</p> <p>Also, if we don't maintain the cylinder properly it also cause disaster.</p> </div>	<div style="background-color: #fff9c4; padding: 2px; font-size: 0.8em; margin-bottom: 5px;">9. PROBLEM ROOT CAUSE RC</div> <div style="border: 1px solid #ccc; padding: 5px;"> <p>Sometimes the device gives false alarm</p> <p>We use sensors to sense the gas, sometimes the sensors are not working proper.</p> <p>We use lot of gases in industry it is difficult to identify the difference between the gas.</p> </div>	<div style="background-color: #fff9c4; padding: 2px; font-size: 0.8em; margin-bottom: 5px;">7. BEHAVIOUR BE</div> <div style="border: 1px solid #ccc; padding: 5px;"> <p>With the help of sensors we identify the gas leakage.</p> <p>Monitor regularly to avoid gas leakage and we use gsm module to send alert notification.</p> </div>
<div style="background-color: #e8f5e9; padding: 2px; font-size: 0.8em; margin-bottom: 5px;">3. TRIGGERS TR</div> <div style="border: 1px solid #ccc; padding: 5px;"> <p>Industries must take safety precaution for workers because the workers safety is most important. Identify the leakage at the time we take necessary measurement incase any emergency.</p> </div>	<div style="background-color: #e8f5e9; padding: 2px; font-size: 0.8em; margin-bottom: 5px;">10. YOUR SOLUTION SL</div> <div style="border: 1px solid #ccc; padding: 5px;"> <p>Develop an efficient system to alert and monitor the gas leakage system.</p> </div>	<div style="background-color: #e8f5e9; padding: 2px; font-size: 0.8em; margin-bottom: 5px;">8. CHANNELS OF BEHAVIOUR CH</div> <div style="border: 1px solid #ccc; padding: 5px;"> <p>8.1 ONLINE It can be done through social media</p> <p>8.2 OFFLINE The product based on gas leakage system is very less and customer prefer to visit and see the products</p> </div>
<div style="background-color: #e8f5e9; padding: 2px; font-size: 0.8em; margin-bottom: 5px;">4. EMOTIONS: BEFORE/ AFTER EM</div> <div style="border: 1px solid #ccc; padding: 5px;"> <p>Before use this product workers feel unsafe to work under the gas areas because if leakage occurs it cause lot of damage.</p> <p>After use this product workers feel safe and peacefull mind to concentrate on his/her work because the product detect the leakage it gives alarm signal to alert the workers</p> </div>		

AMALTAMA