

# Project Design Phase-I

## Problem – Solution Fit Template

Date	2 October 2022
Team ID	40785-1660634822
Project Name	Gas Leakage monitoring & Alerting system for Industries
Maximum Marks	2 Marks

**Problem-Solution fit canvas 2.0**
40785-1660634822 : Gas Leakage monitoring & Alerting system for Industries

Define CS, fit into CC	<b>1. CUSTOMER SEGMENT(S)</b> <small>Who is your customer?</small> <div>Industry who want to monitor gas leakage in their production sites</div>	<b>6. CUSTOMER</b> <small>What constraints prevent your customers from taking action or limit their choices of solutions? I.e. spending power, budget, no cash, network connection, available devices.</small> <div>Need of costly equipment, accurate sensors and skilled labor</div>	<b>5. AVAILABLE SOLUTIONS</b> <small>Which solutions are available to the customers when they face the problem or need to get the job done? What have they tried in the past? What pros &amp; cons do these solutions have? I.e. pen and paper is an alternative to digital notetaking</small> <div>Gas leakage sensors, manual monitoring</div>	Explore AS, differentiate
	<b>2. JOBS-TO-BE-DONE / PROBLEMS</b> <small>Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides.</small> <div> Need to monitor leakage of harmful gases  Alert the stakeholders in case of gas leakage and take appropriate action </div>	<b>9. PROBLEM ROOT CAUSE</b> <small>What is the real reason that this problem exists? What is the back story behind the need to do this job? I.e. customers have to do it because of the change in regulations.</small> <div>Leakage of gases at production sites cause health hazards and accidents</div>	<b>7. BEHAVIOUR</b> <small>What does your customer do to address the problem and get the job done? i.e. directly related: find the right solar panel installer, calculate usage and benefits; indirectly associated: customers spend free time on volunteering work (I.e. Greenpeace)</small> <div>Install an appropriate IoT system to monitor gas leakage</div>	
Focus on J&P, tap into BE, understand RC	<b>3. TRIGGERS</b> <small>What triggers customers to act? I.e. seeing their neighbour installing solar panels, reading about a more efficient solution in the news.</small> <div>The hazard of accidents due to leakage of harmful gases</div>	<b>10. YOUR SOLUTION</b> <small>If you are working on an existing business, write down your current solution first, fill in the canvas, and check how much it fits reality. If you are working on a new business proposition, then keep it blank until you fill in the canvas and come up with a solution that fits within customer limitations, solves a problem and matches customer behaviour.</small> <div> Monitor gas leakage and take appropriate action.  If in any area gas leakage is detected the admins will be notified along with the location  In the web application, admins can view the sensor parameters. </div>	<b>8. CHANNELS of BEHAVIOUR</b> <b>8.1 ONLINE</b> <small>What kind of actions do customers take online? Extract online channels from #7</small> <div>In the web application, admins can view the sensor parameters.</div> <b>8.2 OFFLINE</b> <small>What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development.</small> <div>Take immediate action in case of gas leakage</div>	Extract online & offline CH of BE
	<b>4. EMOTIONS: BEFORE / AFTER</b> <small>How do customers feel when they face a problem or a job and afterwards? I.e. lost, insecure &gt; confident, in control - use it in your communication strategy &amp; design.</small> <div>Scare of accidents and unsafe environment for workers, -&gt; Safe environment for workers</div>			

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