

Project Design Phase-I
Problem – Solution Fit Template

Date	03 November 2022
Team ID	PNT2022TMID13034
Project Name	SmartFarmer - IoT Enabled Smart Farming Application
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.

Define CS, fit into	<div><div>1. CUSTOMER SEGMENT(S)</div><div>Who is your customer?</div><div>Farmers who want to use modern technology Beginner farmers</div></div>	<div><div>6. CUSTOMER</div><div>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.</div><div>Initial Invest cost Internet Access Unable to access right resources Don't know whether the product will work or not</div></div>	<div><div>5. AVAILABLE SOLUTIONS</div><div>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 & cons dothese solutions have? i.e. pen and paper is an alternative to digital notetaking</div><div>Incorporate new technology in agriculture. Need to gather information from various farmers Need to use things that improve soil quality</div></div>	Explore AS,	
	<div><div>2. JOBS-TO-BE-DONE / PROBLEMS</div><div>Which jobs-to-be-done (or problems) do you address for your customers?There could be more than one; explore different sides.</div><div>Maintain Crops and increase yield production Provide remote access to their land</div></div>	<div><div>9. PROBLEM ROOT CAUSE</div><div>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.</div><div>No Modernization Sticking to the old things Cope with climate change Decrease in soil</div></div>	<div><div>7. BEHAVIOUR</div><div>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)</div><div>Make sure that they know their requirements Make sure that product meets their requirements Cost of the product and performance Scalability of the product Customer service</div></div>		Focus on J&P, tap into BE, understand

Identify	<div><div>3. TRIGGERS</div><div>What triggers customers to act? i.e. seeing their neighbour installing solar panels, reading about a more efficient solution in the news.</div></div>	<div><div>10. YOUR SOLUTION</div><div>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.</div></div>	<div><div>8. CHANNELS of BEHAVIOUR</div><div>8.1 ONLINE What kind of actions do customers take online? Extract online channels from #7</div></div>	Extract
			<div>Remote Access and Security</div>	

4. EMOTIONS: BEFORE / AFTER

EM

How do customers feel when they face a problem or a job and afterwards?

i.e. lost, insecure > confident, in control - use it in your communication strategy & design.

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.

8.2 OFFLINE

What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development.

★ **AMALTAMA**



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Farmers know to improve their soil quality and improve productivity.

Before - Low production, Need to visit land daily.
After - High Production, No need to visit land daily.

To design an application which helps to monitor and controls the land operations.
By using various sensors data are used to provide suggestions and current status of land.
To improve production, soil quality through our app.
Our solution allows the farmers to incorporate new technology.

Make sure whether the product provides best solution and provides control to most of things.
Crop inspection and check their production.