Project Design Phase Problem – Solution Fit Template

Date	28th June 2025
Team ID	LTVIP2025TMID34819
Project Name	GrainPalette A Deep Learning Odyssey In Rice
	Type Classification Through Transfer Learning
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:

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

Template:



Problem-Solution fit canvas 2.0

Purpose / Vision

1. CUSTOMER SEGMENT(S) Who is your customer? i.e. working parents of 0-5 y.o. kids

CS

J&P

TR

6. CUSTOMER CONSTRAINTS

5. AVAILABLE SOLUTIONS

- AVAILABLE SOLD HONS inch solutions are available to the customers when they face the problem need to get the job done? What have they tried in the past? What pros & cons do see solutions have? i.e. pen and paper is an alternative to digital notetaking
- · Limited financial resources for experts.
- Low tech literacy in some regions.
- Unreliable internet in rural areas.
- Expert consultation is costly. · Guesswork leads to poor yields.
- · Manual guides are time-consuming.

Define CS, fit into CC

2. JOBS-TO-BE-DONE / PROBLEMS

• Smallholder rice farmers globally.

· Agriculture extension workers.

· Commercial rice farmers.

- Accurately identify rice type quickly.
- Reduce expert consultation costs.
- Optimize yield & resource use.

9. PROBLEM ROOT CAUSE

What is the back story behind the need to do this job? .e. customers have to do it because of the change in regulations

- · High diversity of rice types.
- · Climate change needs new rice types.
- · Limited access to expert knowledge.

7. BEHAVIOUR

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. Greenp

- · Consult local experienced farmers.
- · Use visual guides & manuals.
- Rely on their own experience.

3. TRIGGERS

What triggers customers to act? i.e. seeing their neighbour installing solar panels, reading about a more efficient solution in the news.

- Start of planting/new season.
- · Unusual plant growth problems.
- Seek to improve farming practices.

4. EMOTIONS: BEFORE / AFTER

- EM · Before: Frustrated and anxious.
- · Before: Burdened by costs.
- · After: Confident and empowered.

10. YOUR SOLUTION

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 babaducies.

- Al-powered rice type identification.
- · Fast, accurate, and affordable.
- User-friendly mobile/web app.

8. CHANNELS of BEHAVIOUR

• Online: Social media, agriforums.

SL

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

- Offline: Field demos, workshops.
- Partnerships with extension services.



Identify strong TR & EM

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СН

Extract online & offline CH of BE