Project Design Phase Problem – Solution Fit Template

Date	21 june 2025
Team ID	LTVIP2025TMID43877
Project Name	GrainPalette A Deep Learning Odyssey In Rice Type Classification Through Transfer Learning
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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.
☐ 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.
\square 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
- · Smallholder rice farmers globally.
- Agriculture extension workers.
- · Commercial rice farmers.

6. CUSTOMER CONSTRAINTS

- · Limited financial resources for experts.
- · Low tech literacy in some regions.
- · Unreliable internet in rural areas.

5. AVAILABLE SOLUTIONS

AVAILABLE SOLUTIONS 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 & co-rse solutions have? i.e. pen and paper is an alternative to digital notetaking.

- · 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

- 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?
i.e. customers have to do it because of the change in regulation

- · 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. Greenpea

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

3. TRIGGERS

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

4. EMOTIONS: BEFORE / AFTER

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

10. YOUR SOLUTION

TR

EM

on an existing business, write down your current solution first, nd check how much it fits reality, on a new business proposition, then keep it blank until you fill in ne-up with a solution that fits within customer limitations, nd matches when the hours of the contract of the cont

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

8. CHANNELS of BEHAVIOUR

Online: Social media, agriforums.

SL

ns do customers take offline? Extract offline channels from #7

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



Identify strong TR & EM

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