Project Design Phase Problem – Solution Fit Template

| Date | 27 June 2025 |
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| Team ID | LTVIP2025TMID39904 |
| Project Name | Pattern Sense: Classifying Fabric Patterns using Deep 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:**

- ☐ 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:



Section Details

| 1. Customer Segment(s) | - Fabric manufacturers - Textile quality control managers - Garment exporters - Retail fashion brands - Kids clothing lines |
|----------------------------------|---|
| 2. Jobs-to-be-Done / Problems | - Detect and classify fabric patterns quickly and accurately - Eliminate manual inspection errors - Improve consistency in quality assurance - Save time and labor in textile sorting |
| 3. Triggers | - Rising labor costs in textile quality checks - Manual errors affecting brand reputation - Demand for automation in fabric processing - Inconsistent results in manual inspections |
| 4. Emotions (Before / After) | Before: Frustrated, uncertain, stressed due to inconsistent quality checks After: Confident, relieved, empowered by accurate and fast Al-based classification |
| 5. Available Solutions | Manual inspection by trained workers - Basic pattern recognition software Outsourced quality control teams - Expensive industrial hardware solutions |
| 6. Customer Constraints | - Budget limitations - Lack of technical expertise - Resistance to digital change - Lack of flexible AI tools for fabric inspection |
| 7. Behaviour | - Rely on manual/outdated systems - Explore digital only during issues - Interest peaks during audits/rejections - Trust peer feedback |
| 8. Channels & Behaviour | Online: Google, YouTube, LinkedIn groups, newsletters |
| | Offline: Textile expos, industry referrals, B2B outreach |
| 9. Problem Root Cause | - Subjectivity in manual classification - No scalable tools for real-time sorting - Expensive or rigid current solutions - Low digital adoption in textiles |
| 10. Your Solution | - Deep learning model that classifies fabric patterns automatically - Cost-effective, accurate, fast - Easy to use & integrate into existing systems |

References:

- 1. https://www.ideahackers.network/problem-solution-fit-canvas/
- 2. https://medium.com/@epicantus/problem-solution-fit-canvas-aa3dd59cb4fe