

Project Design Phase

Problem – Solution Fit Template

Date	20 JUNE 2025
Team ID	LTVIP2025TMID37665
Project Name	SMART SDLC
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:

Problem-Solution Fit canvas
Purpose / Vision
Version:

<div style="display: flex; justify-content: space-between;"> Define CS, fit into CL CS </div> <div style="padding: 5px;"> 1. CUSTOMER SEGMENT(S) Software developers, project managers, and engineering interns in mid-sized tech teams. </div>	<div style="display: flex; justify-content: space-between;"> EG. BUDGET, DEVICES CL </div> <div style="padding: 5px;"> 6. CUSTOMER LIMITATIONS Budget constraints, data privacy concerns, resistance to AI adoption </div>	<div style="display: flex; justify-content: space-between;"> PROS & CONS AS </div> <div style="padding: 5px;"> 5. AVAILABLE SOLUTIONS Copilot (code-only), Jira (tracking), manual code reviews </div>
<div style="display: flex; justify-content: space-between;"> Focus on PR, tap into BE, understand RC PR </div> <div style="padding: 5px;"> 2. PROBLEMS / PAINS + ITS FREQUENCY - 40% time wasted on repetitive tasks (docs/tests) - Unclear requirements → rework - Slow debugging cycles </div>	<div style="display: flex; justify-content: space-between;"> RC </div> <div style="padding: 5px;"> 9. PROBLEM ROOT / CAUSE <div style="text-align: center; margin: 10px 0;">•</div> Lack of integrated AI tools for end-to-end SDLC automation </div>	<div style="display: flex; justify-content: space-between;"> Focus on PR, tap into BE, understand RC BE </div> <div style="padding: 5px;"> 7. BEHAVIOR + ITS INTENSITY Daily: 3+ hours on Stack Overflow, weekly manual test writing </div>
<div style="display: flex; justify-content: space-between;"> Identify strong TR & EM TR </div> <div style="padding: 5px;"> 3. TRIGGERS TO ACT Missed deadlines, burnout from manual work, audit failures due to poor documentation </div>	<div style="display: flex; justify-content: space-between;"> SL </div> <div style="padding: 5px;"> 10. YOUR SOLUTION SmartSDLC: Unified AI platform automating requirements → code → tests → docs with local LLM </div>	<div style="display: flex; justify-content: space-between;"> Extract online & offline CH of BE CH </div> <div style="padding: 5px;"> 8. CHANNELS of BEHAVIOR <div style="margin-bottom: 10px;"> <small>ONLINE</small> Online: GitHub forums, dev communities </div> <small>OFFLINE</small> Offline: Team standups, sprint retrospective </div>
<div style="display: flex; justify-content: space-between;"> EM </div> <div style="padding: 5px;"> 4. EMOTIONS BEFORE / AFTER Before: Frustration, overwhelm After: Confidence, productivity boost </div>		