

## Project Design Phase

### Problem – Solution Fit Template

Date	20 JUNE 2025
Team ID	
Project Name	
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:

<b>1. CUSTOMER SEGMENT(S)</b> <b>CS</b> <ul style="list-style-type: none"> <li>• Software developers</li> <li>• Interns / trainees</li> <li>• QA engineers / software testers</li> <li>• Project managers</li> </ul>	<b>2. CUSTOMER CONSTRAINTS</b> <b>CC</b> <ul style="list-style-type: none"> <li>Limited time and tight deadlines</li> <li>Limited awareness of Integrated AI solutions</li> <li>Company restrictions on tool usage</li> <li>Learning curve for new tools</li> <li>No internet during development (in some environments)</li> </ul>	<b>5. AVAILABLE SOLUTIONS</b> <b>AS</b> <ul style="list-style-type: none"> <li>• ChatGPT, GitHub Copilot</li> <li>• Stack Overflow and blogs</li> <li>• Internal documentation wikis</li> <li>• Manual testing and debugging</li> <li>• IDE extensions (e.g. VSC code Copilot Labs)</li> <li><b>Cone.</b></li> <li>• Not talloted for SDLC end-to-end</li> <li>• Eragmented tools, switching context is time-consuming</li> <li>• Limited documentation support</li> </ul>
<b>3. JOBS-TO-BE-DONE / PROBLEMS</b> <b>JSP</b> <ul style="list-style-type: none"> <li>• Understand and refine software requirements</li> <li>• Generate, test, and debug code faster;</li> <li>• Write clean, consistent documentetion</li> <li>• Automate repetitive tasks an SDLC.</li> <li>• Ensure faster release cycles and bug resolution</li> </ul> <p><b>Before:</b> Frustrated, ovremvhelined, inscerure,</p> <p><b>After:</b> low confidence</p>	<b>9. PROBLEM ROOT CAUSE</b> <b>RC</b> <ul style="list-style-type: none"> <li>Time wasted duto disconnected tools</li> <li>Manual effort in repetitive coding/docu-menting tasks</li> <li>Poor knowledge transfer among teams</li> <li>Lack of AI integration across full SDLC</li> </ul>	<b>7. BEHAVIOUR</b> <b>BE</b> <ul style="list-style-type: none"> <li>• Sehavouing Stack Overvilov for ::</li> <li>• Copy-pasting from oldre projects</li> <li>• Manually documentation requirements</li> <li>• Collaborating in Jira/Contluence</li> <li>• Asking peers or mentor-for help</li> </ul>
<b>4. TRIGGERS</b> <b>TR</b> <ul style="list-style-type: none"> <li>• Discovering a better productivity tool online</li> <li>• Pear or mentor recommendations</li> <li>• Struggling with a bug or unclew regirement</li> <li>• Client escalations or failed test cases</li> </ul> <p><b>EMOTIONS: BEFORE / AFTER</b> <b>After:</b></p> <p>Frustrated, overmnetimed,rec less stresred</p>	<b>8. CHANNELS of BEHAVIOUR</b> <b>CH</b> <p><b>8.1 ONLINE:</b> Github, Stack Overflow, ChatGPT: Google, CodePen, Repilt, VS. Code extensions, Jira, Stack, Teams</p> <p><b>8.2 ONLINE:</b> Whiteboarg * brainstorming, Team meetings and code reviews</p>	<b>10/YOUR SOLUTION</b> <b>SL</b> <p><b>CITIZEN AI–</b> A smart AI-powered assistant that integrates across the SDLC to help developers: understand requirement</p> <ul style="list-style-type: none"> <li>• Auto-generate and test code</li> <li>• Debug and explain errors</li> <li>• Create consistent docucumentation</li> </ul>