

## **Project Design Phase**

### **Problem – Solution Fit Template**

Date: 26 June 2025

Team ID: LTVIP2025TMID32004

Project Name: SmartSDLC: AI-Enhanced Software Development Lifecycle

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:

SmartSDLC is designed to solve inefficiencies and delays in the traditional software development lifecycle. It targets developers and teams seeking to automate repetitive SDLC tasks such as requirement analysis, code generation, testing, and documentation. By integrating IBM Watsonx and the Granite large language model, SmartSDLC delivers intelligent, context-aware assistance through a modular Streamlit application. The platform provides capabilities such as structured requirement classification, instant code and test generation, bug fixing, and summarization—drastically reducing manual workload and boosting productivity.

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

References:

<https://www.ideahackers.network/problem-solution-fit-canvas/>

<https://medium.com/@epicantus/problem-solution-fit-canvas-aa3dd59cb4fe>