**Project Design Phase**

**Problem – Solution Fit Template**

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| Date | 15 February 2025 |
| Team ID | LTVIP2025TMID32689 |
| Project Name | smartSDLC-AI-enhanced software develpoment life cycle |
| Maximum Marks | 2 Marks |

# Problem-Solution Fit

SmartSDLC addresses a major issue in the Software Development Lifecycle (SDLC), where many manual, repetitive tasks (such as coding, bug fixing, test case generation, and requirement analysis) slow down the entire process, resulting in inefficient workflows, delayed timelines, and frustrated teams. SmartSDLC automates these tasks using AI, specifically NLP and Watsonx, to speed up development, improve accuracy, and enhance collaboration across all phases of the SDLC.

# Purpose

The purpose of SmartSDLC is to help software development teams overcome the challenges posed by manual SDLC tasks by automating repetitive activities. This AI-driven platform allows developers and project managers to focus on higher-value tasks and collaboration, reducing errors and improving overall development speed.

