

Ideation Phase

Define the Problem Statements

Date	31 January 2025
Team ID	LTVIP2025TMID36326
Project Name	Smart SDLC AI Assistant
Maximum Marks	2 Marks

A well-articulated customer problem statement allows the team to find the ideal solution for the challenges faced by software developers and small teams. This process fosters empathy with customers, helping the team understand their perspective and interaction with the Smart SDLC AI Assistant.

Customer Problem Statement Template:

- **Who:** Software developers, students, and small development teams.
- **What:** Need an efficient tool to streamline the Software Development Life Cycle (SDLC) by automating repetitive tasks and providing intelligent assistance.
- **Why:** To save time, reduce errors, and enhance productivity in software development, especially for those with limited resources or experience.
- **When:** During requirement analysis, coding, testing, debugging, and documentation phases of software development.
- **Where:** In development environments like VS Code, Kaggle, or other platforms where developers work on projects.

Problem Statement: Software developers, students, and small teams need an efficient tool to streamline the SDLC by automating tasks like requirement analysis, code generation, bug fixing, test case creation, and code summarization because they want to save time, reduce errors, and enhance productivity in software development.

Reference: <https://miro.com/templates/customer-problem-statement/>