**Ideation Phase**

**Define the Problem Statements**

| Date | 25 JUNE 2025 |
| --- | --- |
| Team ID | LTVIP2025TMID21159 |
| Project Name | SmartSDLC – AI-Powered Software Development Lifecycle Optimization |
| Maximum Marks | 2 Marks |

**Customer Problem Statement Template:**

A well-articulated customer problem statement allows you and your team to find the ideal solution for the challenges your customers face. Throughout the process, you’ll also be able to empathize with your customers, which helps you better understand how they perceive your product or service.

Graphical user interface, text, application, email

Description automatically generated

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

**Example:**

Chart, treemap chart

Description automatically generated

| **Problem Statement (PS)** | **I am (Customer)** | **I’m trying to** | **But** | **Because** | **Which makes me feel** |
| --- | --- | --- | --- | --- | --- |
| PS-1 | a software developer or team lead in a fast-paced development environment. | streamline repetitive SDLC tasks like code generation, bug fixing, and test creation. | these tasks are time-consuming and distract from core application logic and innovation. | there is no integrated AI solution tailored to SDLC automation using natural language inputs. | overwhelmed, inefficient, and slowed down in delivering quality software. |
| PS-2 | a project manager or technical lead overseeing software delivery timelines. | to ensure my team meets project deadlines while maintaining code quality. | managing manual tasks across SDLC phases increases chances of delay and inconsistency. | human effort in repetitive tasks can’t scale efficiently with growing complexity. | concerned about productivity, quality assurance, and overall delivery risks. |