Ideation Phase
Define the Problem Statements

Date	16 June 2025
Team ID	LTVIP2025TMID29152
Project Name	SmartSDLC – AI-Enhanced Software Development Lifecycle
Maximum Marks	2 Marks

Customer Problem Statement Template:

Developers often face delays due to repetitive and manual coding tasks, such as writing boilerplate code, test cases, and debugging. These tasks reduce productivity and increase frustration. SmartSDLC aims to solve these pain points using AI automation.

Customer Problem Statement Template

am	I'm trying to	But	Because	Which makes me feel
a student or developer	generate clean and functional code quickly	I spend too much time writing boilerplate and fixing	I don't have a tool that automates code writing and bug fixing	frustrated and unproductive
a student or developer	write test cases for my code	write test cases for my code	I find it difficult to create all edge-case tests manually	frustrated and onproductive
			manual test case writing is time-consuming	stressed and overwhelmed

Problem Statement :

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	a student or developer	generate clean and functional code quickly	I spend too much time writing boilerplate and fixing bugs	I don't have a tool that automates code writing and bug fixing	frustrated and unproductive
PS-2	a software engineer	write test cases for my code	I find it difficult to create all edge-case tests manually	manual test case writing is time-consuming and error-prone	Stressed and overwhelmed