Project Design Phase
Proposed Solution Template

Date	25 JUNE 2025
Team ID	LTVIP2025TMID59527
Project Name	**Smart SDLC- AI Enhnced Software Development LifeCycle**
Maximum Marks	2Marks

Proposed Solution:

S. No.	Parameter	Description
1	Problem Statement	Software teams face inefficiency due to fragmented tools, unclear requirements, and manual development work.
2	Idea / Solution Description	SmartSDLC is an AI-powered platform that automates requirement analysis, code generation, and test creation using IBM Granite model, all in a unified and user-friendly interface.
3	Novelty / Uniqueness	Combines AI-driven SDLC support (requirement → code → test) with local model execution (privacy-first) and supports PDF/text inputs, prompt-based generation, and live assistant.
4	Social Impact / Customer Satisfaction	Enhances developer productivity, reduces rework, increases software quality, and accelerates delivery timelines—benefiting enterprises, startups, and edtech environments.
5	Business Model (Revenue Model)	Freemium model: free version for individual developers; premium tier for teams with CI/CD integration, model customization, and export automation.
6	Scalability of the Solution	Highly scalable: modular backend supports integration with IDEs (VS Code), version control (Git), CI/CD tools, and deployment to cloud or on-prem infrastructure.