

Project Design Phase

Proposed Solution Template

Date	27 June 2025
Team ID	LTVIP2025TMID32013
Project Name	SmartSDLC – AI-Enhanced Software Development Lifecycle
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in the proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Developers face delays and inefficiencies due to lack of real-time support during the SDLC. Traditional tools don't provide intelligent, context-aware assistance.
2.	Idea / Solution description	An AI-enhanced chatbot integrated into the SDLC process that assists developers by answering queries, generating code, writing test cases, and analyzing requirements.
3.	Novelty / Uniqueness	Combines the power of generative AI with SDLC knowledge to provide instant, phase-specific support—context-aware and customizable for each project stage.
4.	Social Impact / Customer Satisfaction	Increases development speed, reduces human error, and boosts team collaboration. Customers benefit from faster, higher-quality software delivery.
5.	Business Model (Revenue Model)	Subscription-based model for organizations with tiered plans (e.g., per developer/month), along with enterprise licensing and API access for integration.
6.	Scalability of the Solution	Can support individual developers, small teams, or large enterprises. Cloud deployment ensures scalability and multi-user support.