**Project Design Phase**

**Proposed Solution Template**

|  |  |
| --- | --- |
| Date | 27 June 2025 |
| Team ID | LTVIP2025TMID59193 |
| 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** |
|  | Problem Statement (Problem to be solved) | Manual SDLC processes slow down development and reduce software quality. AI integration is lacking in traditional workflows. |
|  | Idea / Solution description | SmartSDLC automates requirement classification, bug fixing, and code generation using AI. It streamlines the development lifecycle. |
|  | Novelty / Uniqueness | Combines AI with SDLC in a modular, real-time platform. Accepts natural language input and integrates with CI tools. |
|  | Social Impact / Customer Satisfaction | Speeds up software delivery and improves developer productivity. Enhances user satisfaction through quality and reliability. |
|  | Business Model (Revenue Model) | SaaS-based model with tiered plans and API access. Offers subscription for individuals, teams, and enterprises. |
|  | Scalability of the Solution | Easily scalable across domains, teams, and project sizes. Supports cloud deployment and CI/CD integration. |