**Project Design Phase**

**Proposed Solution Template**

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| Date | 26 June 2025 |
| Team ID | LTVIP2025TMID29069 |
| Project Name | Medical Inventory Management |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

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

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | Inefficient tracking, stockouts, expired supplies, and lack of real-time visibility into inventory are causing delays, increased costs, and patient risk. |
|  | Idea / Solution description | Develop a smart medical inventory management system using IoT and cloud integration that enables real-time tracking, automated alerts, and digital recordkeeping. |
|  | Novelty / Uniqueness | Unlike traditional systems, this solution offers predictive analytics for reordering, integration with EHRs, and mobile access for on-the-go inventory updates. |
|  | Social Impact / Customer Satisfaction | Ensures timely patient care by preventing supply shortages, reduces waste from expired items, and enhances healthcare provider confidence and service quality. |
|  | Business Model (Revenue Model) | Subscription-based SaaS model for clinics/hospitals with tiered pricing; additional fees for integration and training. |
|  | Scalability of the Solution | Easily scalable to multiple branches, hospitals, or pharmacy chains with centralized control and decentralized data visibility. |