

Project Design Phase
Proposed Solution Template

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.

S.No.	Parameter	Description
1.	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.
2.	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.
3.	Novelty / Uniqueness	Unlike traditional systems, this solution offers predictive analytics for reordering, integration with EHRs, and mobile access for on-the-go inventory updates.
4.	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.
5.	Business Model (Revenue Model)	Subscription-based SaaS model for clinics/hospitals with tiered pricing; additional fees for integration and training.
6.	Scalability of the Solution	Easily scalable to multiple branches, hospitals, or pharmacy chains with centralized control and decentralized data visibility.