

Project Design Phase

Problem – Solution Fit Template

Date	31 October 2025
Team ID	NM2025TMID06633
Project Name	Medical Inventory Management
Maximum Marks	2 Marks

Problem – Solution Fit Overview

The Problem–Solution Fit template helps identify and validate whether the proposed solution effectively addresses the actual problems faced by stakeholders. In the case of Medical Inventory Management, it ensures that the designed system resolves key challenges such as tracking inefficiencies, stock wastage, and expired supplies. By analyzing customer needs, pain points, and available technologies, this phase confirms alignment between healthcare operational issues and the proposed inventory management solution.

Purpose of the Problem–Solution Fit Template

- To clearly define customer segments such as hospitals, clinics, and pharmacies.
- To identify and analyze pain points related to manual inventory tracking.
- To propose a practical, technology-based solution using RFID and automation.
- To validate whether the proposed system effectively meets operational needs.
- To ensure that the design aligns with end-user goals and expectations.

Application to Medical Inventory Management

Applying the Problem–Solution Fit template to medical inventory management helps align user pain points with system features. Hospitals represent the primary customer segment, with major problems including frequent stockouts, data inaccuracies, and untracked expiry dates. The root cause lies in manual monitoring and disconnected record systems.

The proposed RFID-based automated solution with real-time tracking addresses these core issues and ensures efficiency. Adopting this digital system guarantees cost savings, transparency, and continuous availability of critical medical supplies.

References

1. [Miro: Problem–Solution Fit Template](#)
2. [Mural: Problem–Solution Fit Template](#)