Project Design Phase

Problem – Solution Fit Template

DATE	31 OCTOBER 2025
TEAM ID	NM2025TMID05759
PROJECT NAME	MEDICAL INVENTORY MANAGEMENT
MAXIMUM MARKS	2 MARKS

Problem – Solution Fit Template:

The Problem–Solution Fit ensures that the challenges faced by healthcare facilities in managing medical inventory are directly addressed by the designed solution. It validates that the proposed system effectively solves users' needs and enhances operational efficiency.
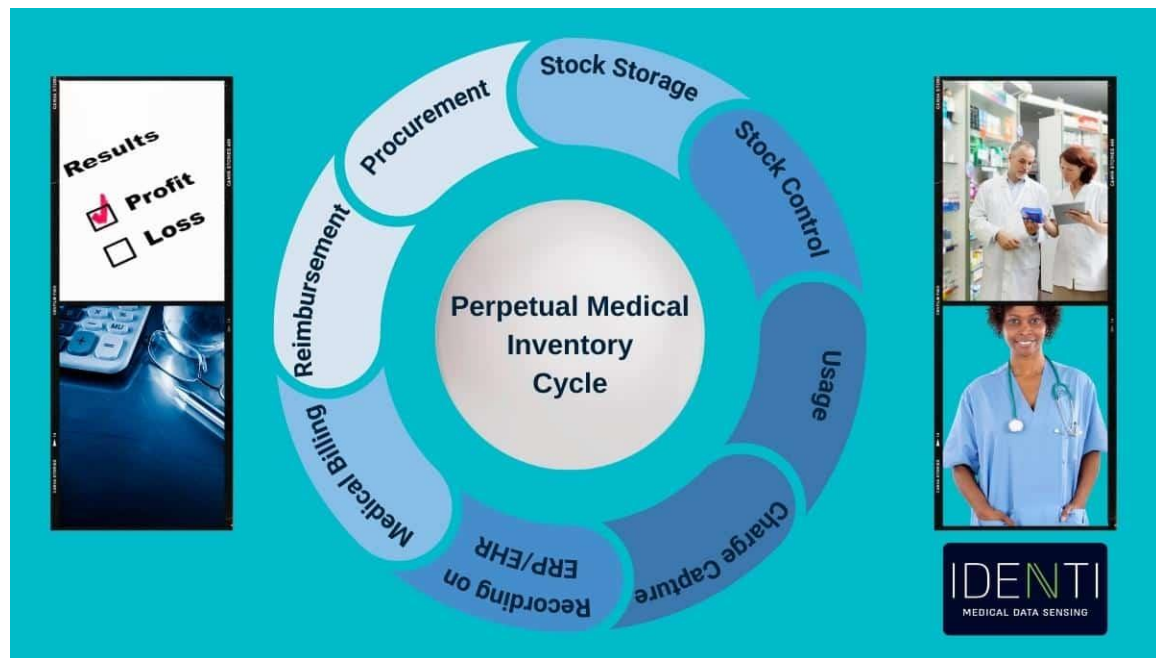
Purpose

- Solve critical inventory management challenges in healthcare environments.
- Enable hospitals and clinics to track, monitor, and replenish medical supplies efficiently.
- Reduce medicine expiry-related waste and ensure timely restocking.
- Increase safety, compliance, and accountability in drug and equipment management.
- Improve visibility of stock levels and usage patterns to support decision-making.

Problem–Solution Description

The Medical Inventory Management System addresses the recurring issues of manual stock tracking, medicine expiry, and supply shortages in healthcare facilities. Currently, hospitals face delays, errors, and wastage due to lack of automation in their inventory processes.

By implementing a centralized digital inventory system, the project ensures real-time monitoring of medical supplies, automatic alerts for low stock or upcoming expiries, and automated reorder management. The solution integrates user-friendly dashboards and reporting tools to maintain transparency, accuracy, and efficiency.

This system directly aligns with the problem of inefficiency and human error in medical stock management, providing a comprehensive and proactive solution that enhances patient safety and hospital operations.

References

1. https://www.ideahackers.network/problem-solution-fit-canvas/

2. https://medium.com/@epicantus/problem-solution-fit-canvas-aa3dd59cb4fe