Project Design Phase
Problem – Solution Fit Template

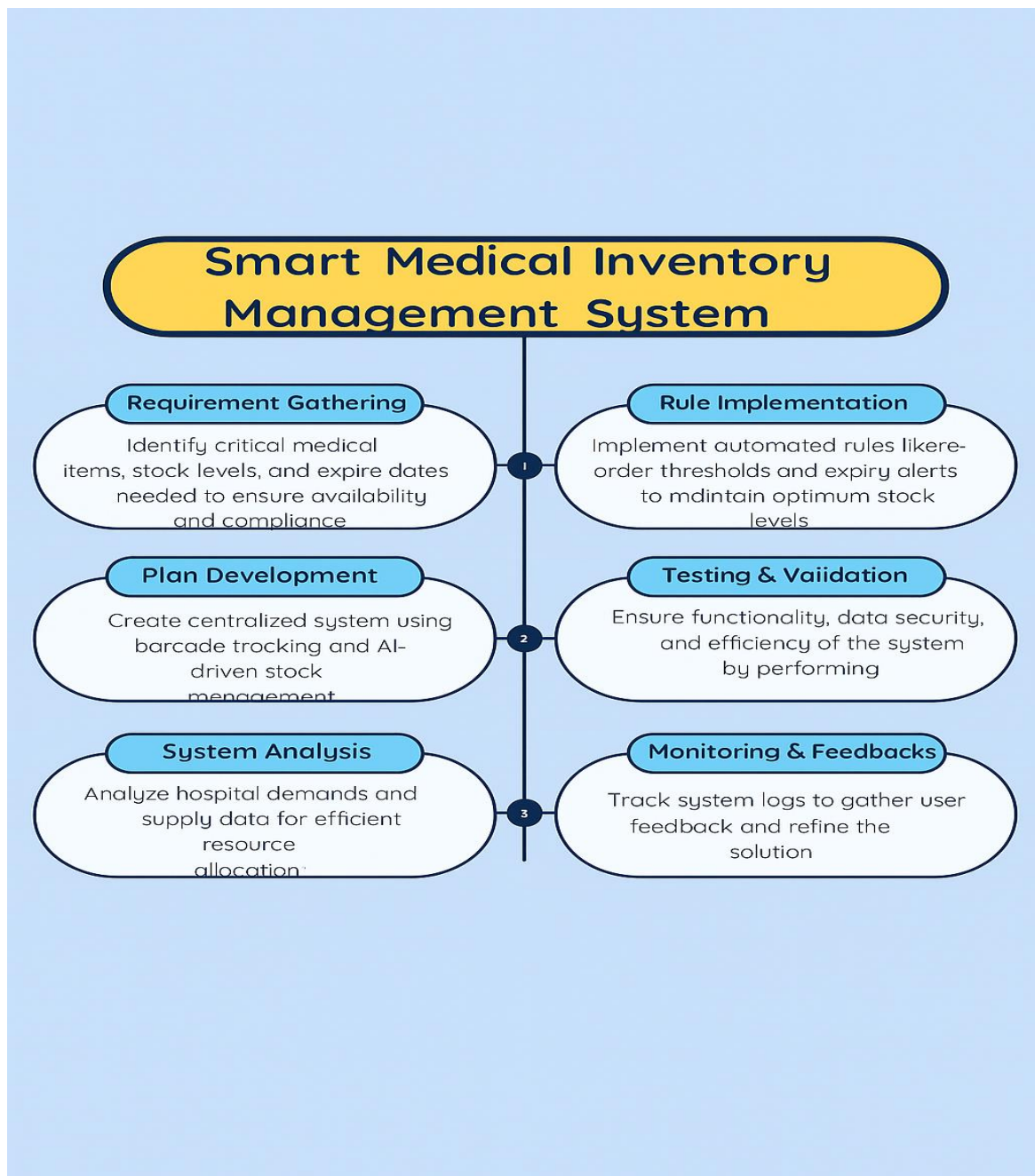| Date	28 October 2025
Team ID	NM2025TMID04224
Project Name	Medical Inventory Management System
Maximum Marks	2 Marks

Problem – Solution Fit Template:

The Problem–Solution Fit ensures that a real-world issue faced by the target users (in this case, healthcare institutions) is effectively addressed through a practical and efficient solution. It validates that the proposed system truly meets the users' needs and improves their existing process.

Purpose:

- To ensure continuous availability of essential medicines and medical equipment.
- To reduce losses due to expired or overstocked items.
- To automate stock management and improve record accuracy.
- To support hospital administration in data-driven decision-making.

Template:

References:

1. https://www.ideahackers.network/problem-solution-fit-canvas/
2. https://medium.com/@epicantus/problem-solution-fit-canvas-aa3dd59cb4fe

The project *"Smart Medical Inventory Management System"* addresses a major challenge faced by hospitals, clinics, and pharmacies — inefficient inventory tracking and management of medical supplies. Manual or semi-digital systems often lead to overstocking, stockouts, expired medicines, and delays in critical treatment processes. These issues not only impact hospital operations but also risk patient safety and increase operational costs.

Our proposed solution provides an automated, intelligent inventory management system designed specifically for the healthcare sector. The system monitors stock levels in real time, tracks expiry dates, and generates alerts for low or expiring items. It also supports demand forecasting using historical consumption data, ensuring optimal stock levels at all times.