Medical Inventory Management System

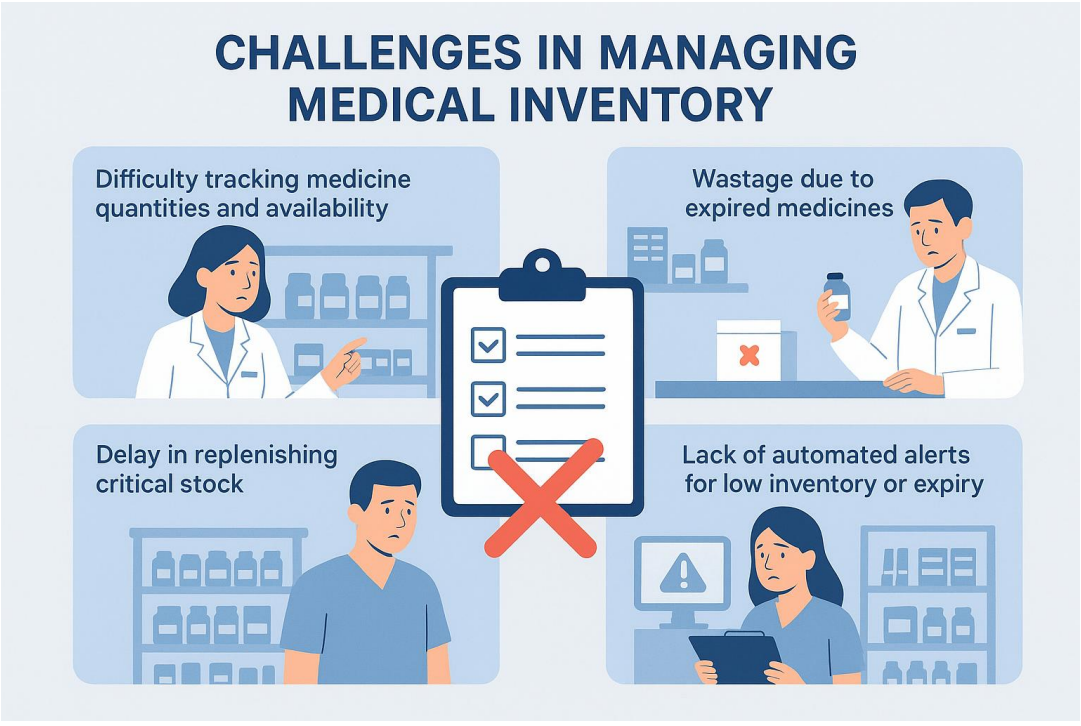
Template

Date	30 october2025
Team ID	F6ECDDC2BAA51CF97204E983A5BEFB35
Project Name	Medical Inventory Management System
Maximum Marks	4 Marks

Introduction to Medical Inventory Management System:

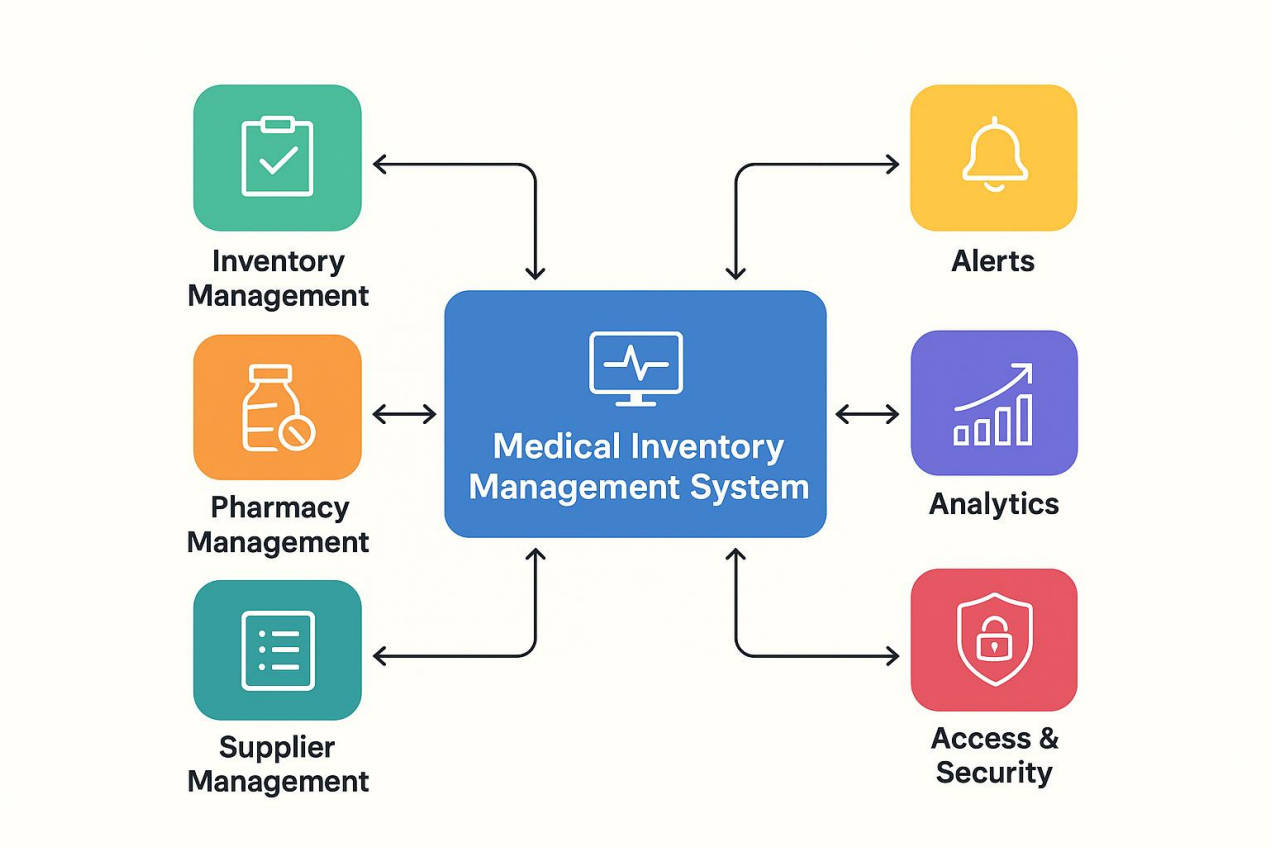
This guided project demonstrates how to build a Medical Inventory Management System that efficiently tracks and manages medicines, medical supplies, and equipment within a healthcare environment. The system begins by adding medical items, entering stock quantities, and assigning expiry dates and supplier details. A smart alert mechanism is then created to notify users when stock is low or nearing expiry, preventing shortages and ensuring patient safety.This ensures accurate medical inventory records are maintained and prevents the accidental use of expired or unavailable items. It also reduces wastage and improves hospital operational efficiency by automating stock monitoring and alerting staff before critical items run out.The workflow includes a test scenario to validate the system behavior. First, items are added and stock levels are updated. Then, a low-stock and expiry-alert simulation is performed to confirm that alerts are triggered at the correct time. Finally, a restocking process is tested to verify that inventory updates are processed successfully without errors. This process helps hospitals and pharmacies maintain reliable medical inventory records while ensuring continuous availability of essential medical supplies.

Step-1: Challenges in managing medical inventory

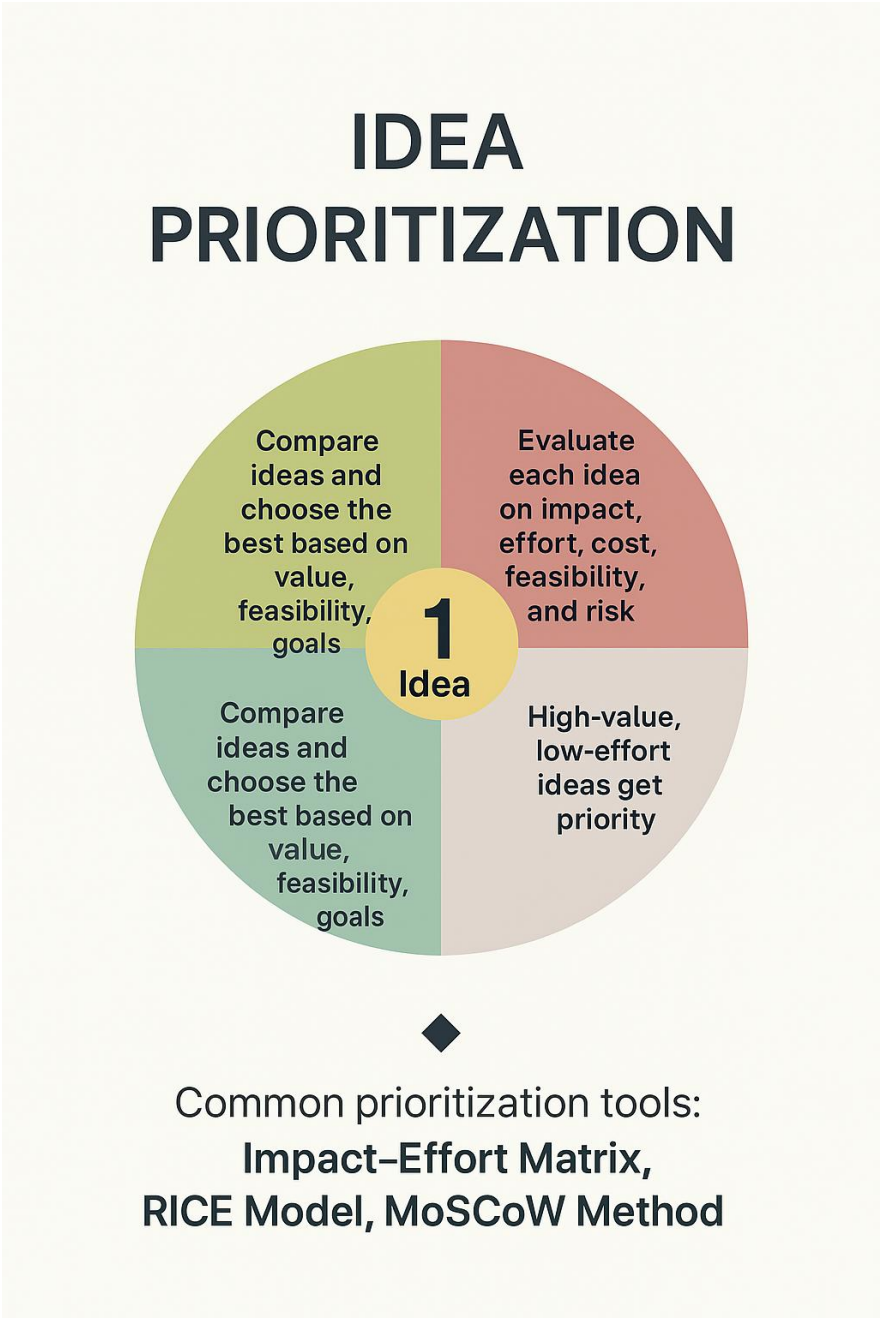


Reference: Medical Inventory Management Template – Meegle

Step-2: Idea Listing and Grouping:



Step-3: Idea Prioritization:



Idea Prioritization:

Idea prioritization is a method used to compare ideas and choose the best ones based on value, feasibility, and goals. It helps teams focus on ideas that bring the most benefits instead of relying on opinions or assumptions. To prioritize effectively, each idea is evaluated based on factors like impact, effort, cost, feasibility, and risk. Ideas that offer high value and require less effort are given priority. Common prioritization tools include the Impact–Effort Matrix, RICE Model, and MoSCoW Method. By using these methods, teams can make smarter decisions, save time, and work on ideas that lead to better results..