Ideation phase

Brainstorming & Prioritization Template

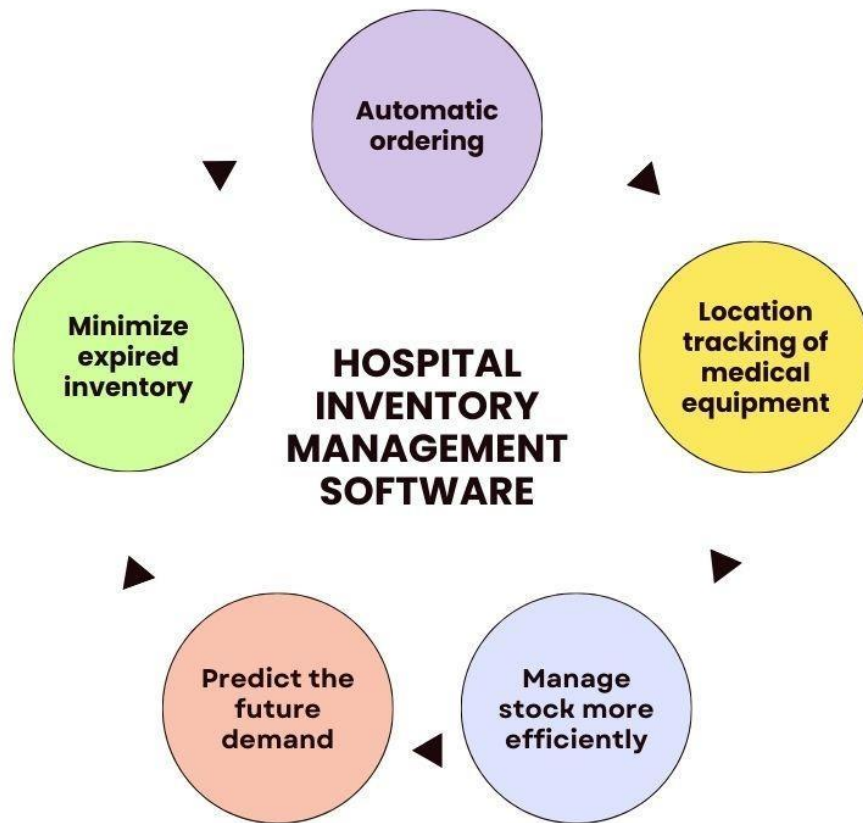| Date	06 November 2025
Team ID	F529277D47452DB9E7447BD087E08E5E
Project Name	Medical inventory management
Maximum Marks	4 Marks

1. Problem Statement

Clearly describe the issue being addressed.
Example:
Hospitals face major challenges in tracking medical supplies, monitoring stock levels, and managing expiration dates. This leads to medicine wastage, supply shortages, and inefficient inventory control.

2. Brainstorming Setup

- Encourage open and creative thinking — no idea is too small or unrealistic.
- Focus on generating as many ideas as possible before evaluating them.
- Involve diverse roles such as doctors, nurses, pharmacists, IT staff, and administrators.
- Set a time limit for brainstorming (e.g., 15–20 minutes).

1. Develop a mobile app that allows nurses to check stock availability in real time.
2. Implement AI tools to predict medicine demand based on usage patterns.

- Introduce RFID tags for real-time tracking of inventory and equipment

Automatic ordering

Minimize expired inventory

Location tracking of medical equipment

HOSPITAL INVENTORY MANAGEMENT SOFTWARE

Predict the future demand

Manage stock more efficiently

3. Idea Generation

3. Use barcode scanners for tracking all medicine transactions.
4. Create automatic alerts for low stock and upcoming expirations.
5. Integrate supplier systems for automatic reordering when stock is low.
6. Develop a mobile app that allows nurses to check stock availability in real time.

7. Implement AI tools to predict medicine demand based on usage patterns.
8. Introduce RFID tags for real-time tracking of inventory and equipment.

4. Idea Evaluation

Each idea can be rated based on two main factors:

- **Feasibility:** How easy and cost-effective it is to implement (scale 1–5).
- **Impact:** How strongly it improves efficiency, reduces errors, or saves cost (scale 1–5).

5. Prioritization

- **High Priority:**
  Barcode scanning, expiry alerts, and the nurse mobile app — all are feasible and offer immediate benefits.
- **Medium Priority:**
  Supplier API integration and AI-based demand prediction — slightly complex but valuable long-term.
- **Low Priority:**
  RFID tracking — high accuracy but costly and complex to implement.

6. Action Plan

- Develop a prototype for stock tracking dashboard (Owner: IT Team, Deadline: Dec 15).
- Implement the expiry alert system (Owner: Pharmacy Department, Deadline: Dec 20).
- Research cost and vendors for RFID tracking (Owner: Procurement Team, Deadline: Jan 5).