

IDEATION PHASE - DOCUMENT 1:

BRAINSTORMING

Date	06 November 2025
Team ID	7DDB99C3AFBD678BC14B32342A420F8
Project name	Medical Inventory Management
Maximum Marks	4 Marks

Title: Brainstorming for "Medical Inventory Management"

1.Objectives :

The objective of the Medical Inventory Management Project is to design and implement an efficient system that automates the recording, tracking, and management of medical supplies, drugs, and equipment to ensure accuracy, availability, and cost-effectiveness. The system aims to provide real-time visibility into stock levels and expiry dates, minimize wastage, and prevent shortages or overstocking through data-driven demand forecasting. It will enhance operational efficiency by streamlining procurement, supplier management, and reporting processes while maintaining regulatory compliance and data security through role-based access controls. Additionally, the project seeks to integrate seamlessly with existing hospital management systems and offer a user-friendly interface that supports timely decision-making and effective resource utilization in healthcare facilities.

2.Brainstorming Process :

Here's the brainstorming process for a Medical Inventory Management System summarized into four main points:

1. Problem Identification and Goal Setting: Identify key issues in medical inventory management such as stockouts, expiries, and manual errors, while defining clear goals like improving accuracy, reducing waste, and ensuring timely availability of supplies.
2. Stakeholder Engagement and Idea Generation: Involve doctors, pharmacists, administrators, and suppliers to gather insights, then brainstorm ideas for solutions such as automated tracking, real-time monitoring, expiry alerts, and data-driven forecasting.
3. Evaluation and Concept Development: Analyze the feasibility of proposed ideas based on cost, efficiency, and practicality.

4. Feedback, Refinement, and Planning: Present the concept to stakeholders for feedback, refine the system features accordingly, and document the final plan with implementation strategies, timelines, and performance indicators.

3. Stakeholders Involved :

1. Hospital/Healthcare Administration

- **Role:** Oversee the entire inventory management process.
- **Responsibilities:** Approve budgets, ensure policies are followed, and monitor overall efficiency and cost control.

2. Procurement Department / Purchasing Officers

- **Role:** Purchase medical supplies, equipment, and drugs.
- **Responsibilities:**
 - Identify and select vendors.
 - Negotiate contracts and prices.
 - Ensure timely and cost-effective purchasing.

3. Warehouse / Store Managers

- **Role:** Handle physical storage and distribution of medical items.
- **Responsibilities:**
 - Receive, inspect, and store supplies.
 - Maintain proper storage conditions (temperature, humidity, etc.).
 - Keep accurate stock records and issue supplies as needed.

4. Idea Generation Methods :

Here are the **main idea generation methods** commonly used for problem-solving, creativity :

1. Brainstorming

- A group technique where participants share as many ideas as possible without criticism.
- **Goal:** Encourage free thinking and creativity.
- **Example:** Team discusses new product features.

2. Mind Mapping

- Visual method where a central idea is written in the middle, and related ideas branch out.
- **Goal:** Organize thoughts and show relationships between ideas.
- **Example:** Mapping “Reduce Waste” → “Recycling,” “Reuse,” “Education.”

3. SCAMPER Technique

- A checklist method that prompts creative thinking using seven actions:
Substitute, Combine, Adapt, Modify, Put to another use, Eliminate, Reverse.

- **Example:** Modify an existing product to improve performance.
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5.Consolidated Ideas

Here's a refined tabular format for medical inventory management ideas using your requested headings

S. No	Idea Description	Feasibility	Impact
1	Implement computer-based or ERP systems to track medical stock, automate orders, and generate reports.	High	Improves accuracy, reduces human error, and enhances efficiency.
2	Use barcode or RFID tags on medicines and equipment for automated scanning and tracking.	Medium	Ensures accurate tracking, reduces loss and duplication.
3	Set reorder levels and automatic alerts for low or excess stock using digital tools.	High	Prevents stockouts and overstocking; ensures continuous availability.
4	Follow "First-In-First-Out" and "First-Expire-First-Out" methods for inventory usage.	High	Reduces wastage from expired or unused stock.
5	Combine orders from all departments for bulk purchasing.	Medium	Saves cost, standardizes product quality.

6.Rational for Choosing Salesforce :

Here's a clear and professional explanation of the **Rationale for Choosing Salesforce in Medical.**

- **Real-Time Tracking:** It enables real-time monitoring of stock levels, expiration dates, and usage patterns, reducing wastage and ensuring the availability of critical medical items.
- **Customizable Dashboards and Reports:** The platform allows the creation of customized dashboards to visualize inventory metrics, supplier performance, and cost trends for better decision-making.
- **Integration with Healthcare Systems:** Salesforce can integrate seamlessly with Electronic Health Records (EHR), ERP systems, and procurement tools, ensuring smooth data flow and eliminating manual errors.

Scalability and Flexibility: As healthcare organizations grow, Salesforce can easily scale to accommodate new departments, suppliers, and users without heavy infrastructure investment.

7. Outcomes of Brainstorming :

- Identification of methods to **improve inventory accuracy** through automation (e.g., barcode or RFID tracking).
- Development of **efficient stock replenishment systems** using demand forecasting and reorder alerts.
- Encouragement to **digitize the inventory system** using platforms like Salesforce or cloud-based tools.
- Enhanced **real-time monitoring** of medical supplies and equipment.
- Introduction of **standardized procedures** for procurement, storage, and distribution.