

# IDEATION PHASE – DOCUMENT 1: BRAINSTORMING

Field	Details
Date	05 November 2025
Team ID	NM2025TMID07730
Project Name	Medical Inventory Management System
Maximum Marks	4 Marks

## Title: Brainstorming for “Medical Inventory Management System”

### 1. Objective

The purpose of this brainstorming phase is to explore and evaluate multiple ideas to solve challenges in traditional medical inventory handling such as manual stock tracking, expired items, lack of centralized visibility, and vendor coordination issues.

The goal is to identify a feasible technical solution using Salesforce that can automate, monitor, and optimize medical stock procurement, storage, and consumption across departments.

### 2. Brainstorming Process

The brainstorming was conducted in three structured rounds:

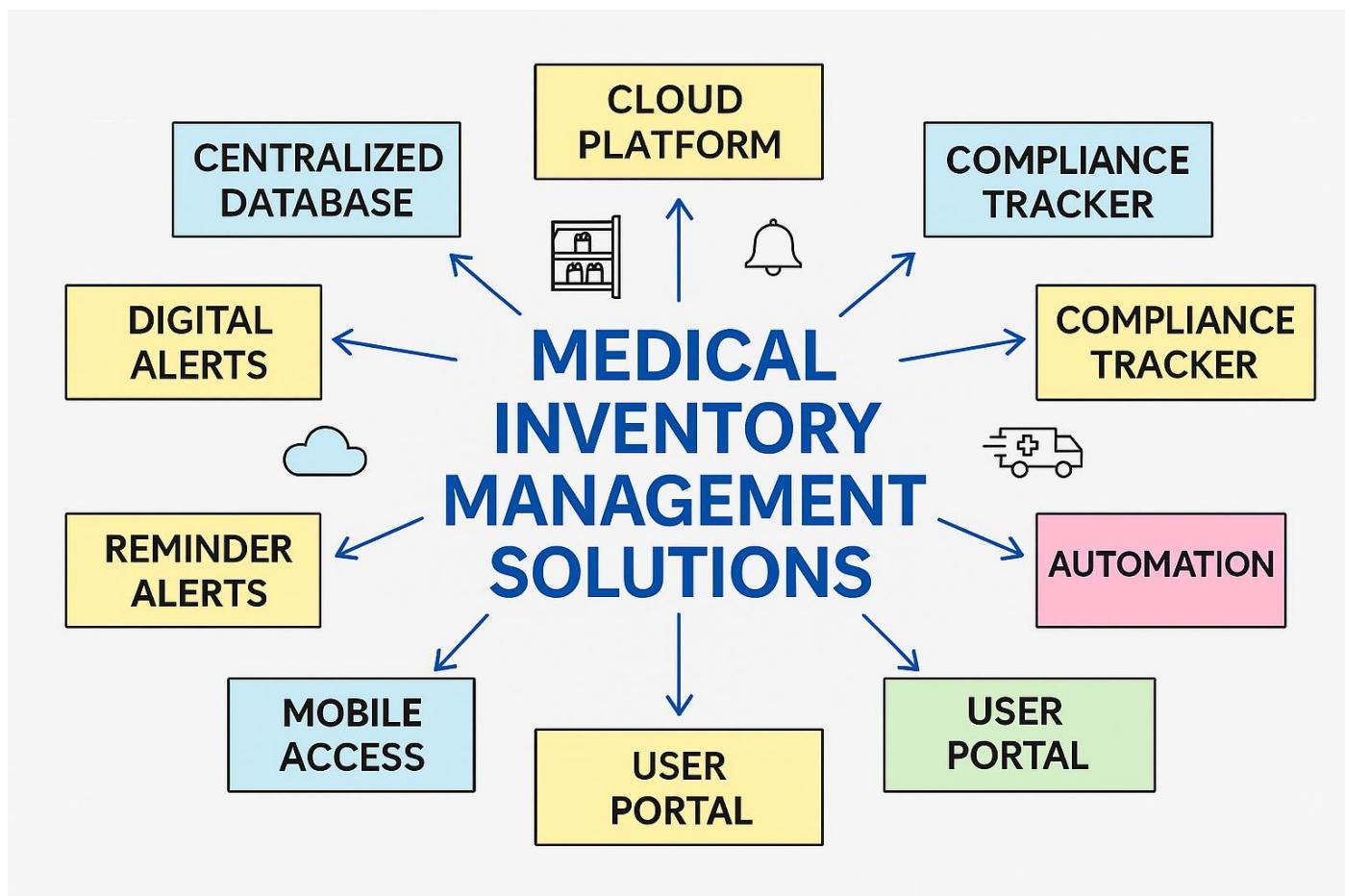
Round	Focus Area
Ideation Round 1	Listing major problems in medical inventory handling and potential digital solutions
Ideation Round 2	Shortlisting feasible and scalable ideas based on process automation and healthcare needs
Ideation Round 3	Translating shortlisted ideas into Salesforce-based workflows and modules

Tools used: Miro Board | Jamboard | Google Sheets | Salesforce Sandbox | Team Discussion Calls

### 3. Stakeholders Involved

Stakeholder	Role in Brainstorming	Contribution
Store Staff / Pharmacists	Shared daily operational issues in stock handling	Reported challenges with manual entries, expiry tracking, and missing items
Purchase Officers	Provided procurement workflow details	Suggested automation for PO approval and reorder alerts
Doctors / Department Heads	Shared item consumption and request patterns	Highlighted urgency of critical item availability
Administrators / Finance Officers	Oversaw budget and compliance needs	Proposed dashboards and audit-ready reporting

Technical Mentors	Guided technical feasibility	Ensured design aligns with Salesforce features and scalability
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#### 4. Idea Generation Methods

Method	Purpose
Mind Mapping	Visualized flow from <i>Item</i> → <i>Purchase Order</i> → <i>Goods Receipt</i> → <i>Stock</i> → <i>Issue</i> → <i>Return</i>
SCAMPER	Reimagined manual inventory workflows using Salesforce automation and dashboards
Reverse Brainstorming	Asked: “Why do hospitals face inventory crises?” to uncover root causes (expired items, delayed procurement, no alerts)
Brainwriting (Silent Idea Sharing)	Gathered ideas from multiple roles without influence from others

#### 5. Consolidated Ideas

Idea No.	Idea Description	Feasibility	Impact
1	Centralized digital item master with supplier linkage	High	High
2	Automated low-stock & expiry alerts	Very High	Very High

3	Purchase order and GRN automation via Flows	High	High
4	Departmental issue & return tracking	High	High
5	Predictive reorder based on consumption trends	Medium	Moderate

## Final Selected Direction: Salesforce-based Automated Medical Inventory Management System

### Why Salesforce?

- Free Developer Edition environment for prototyping
- Powerful low-code automation using Flows and Validation Rules
- Role-based security for Admin, Store, and Department Staff
- Real-time Dashboards and Reports for actionable insights

### 6. Rationale for Choosing Salesforce

Salesforce provides a robust, secure, and customizable platform ideal for inventory management in healthcare institutions.

### Key Advantages:

- Custom Objects for Items, Purchase Orders, Suppliers, Goods Receipts, Stock Ledger
- Flows & Approval Processes for automation and validation
- Reports & Dashboards for monitoring stock movement, near-expiry items, and cost control
- Email Alerts & Notifications for reorder and expiry reminders
- Cloud Security with role-based access and audit trail tracking

### 7. Outcome of Brainstorming

The finalized concept, “Medical Inventory Management System,” is a **cloud-based automated solution** that:

- Digitizes all inventory, supplier, and transaction records
- Automates reorder and expiry alerts to prevent stockouts
- Tracks purchases, issues, and returns in real time
- Provides dashboards for administrators and store managers
- Ensures compliance through digital records and audit logs

This system replaces manual inventory handling with a structured, efficient, and reliable Salesforce-based solution, improving accuracy, visibility, and operational efficiency across healthcare facilities.