Ideation Phase

Brainstorm & Idea Prioritization Template

Date	1 November 2025
Team Id	NM2025TMID03427
Project Name	Medical Inventory Management System
Maximum Marks	4 Marks

Step 1: Team Gathering, Collaboration, and Problem Statement Selection

The team initiated the project by collaboratively identifying key operational issues faced in managing medical inventory within hospitals and healthcare organizations. Through discussions and analysis, the team observed recurring challenges such as inaccurate stock monitoring, the use of expired medical products, inefficient supplier coordination, and a lack of centralized visibility.

Recognizing these pain points, the team agreed that a **Salesforce-based solution** would effectively automate and streamline inventory operations. This platform would integrate supplier management, purchase tracking, product monitoring, and analytical reporting within a single system.

After thorough deliberation, the team finalized the following **problem statement:**

"To develop a Salesforce application that automates medical inventory tracking, manages suppliers and purchase orders, monitors expiry dates, and provides insightful reporting to enhance operational efficiency and compliance."

Step 2: Brainstorming, Idea Listing, and Grouping

Brainstorming:
The brainstorming session encouraged all team members to contribute creative ideas for improving and automating the medical inventory workflow. Discussions centered on enhancing real-time visibility, reducing manual intervention, and integrating automation for

error-free operations. Emphasis was also placed on utilizing Salesforce automation tools such as **Flows, Validation Rules, and Apex Triggers** to maintain accuracy and consistency.

Idea Listing:

All proposed ideas were carefully documented to ensure that every innovative suggestion was considered. The key ideas included:

- Real-time stock updates for all medical products.
- Automated expiry tracking with timely alerts and notifications.
- Centralized supplier database with contact, rating, and performance details.
- Smart purchase order generation based on predefined stock thresholds.
- Dashboard for real-time visualization of inventory status and supplier performance.
- Integration with Salesforce Flow for process automation and record validation.
- Comprehensive reporting module for supplier, order, and product transaction summaries.
- Role-based access control for administrators, inventory managers, and purchase officers.
- Cloud-based accessibility for improved transparency and reduced manual dependency.

Grouping:

To streamline execution, the ideas were organized into **four major categories**, each representing a functional component of the system:

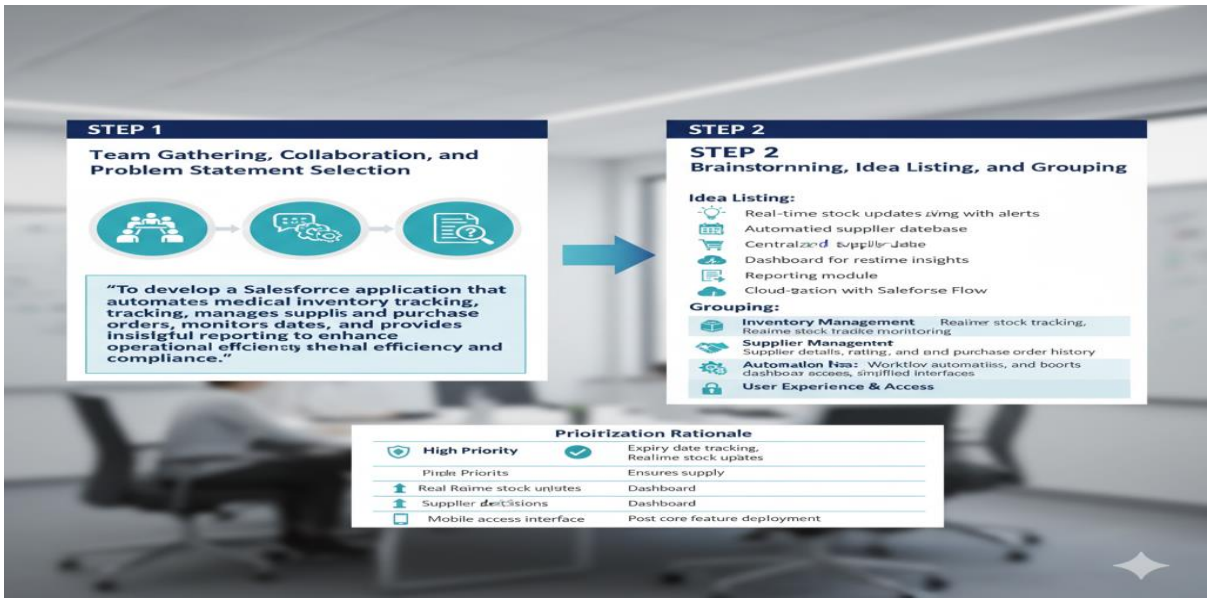
Category	Description
Inventory Management	Real-time stock tracking, expiry date monitoring, and low-stock alerts.
Supplier Management	Supplier information storage, performance evaluation, and purchase order history tracking.
Automation & Reporting	Automated workflows through Salesforce Flows, along with dashboards and analytical reports.
User Experience & Access	Role-based access control, intuitive user interfaces, and mobile accessibility for seamless usage.

Action Planning:

Following categorization, the team divided responsibilities among members based on their expertise and interest areas. Each group was tasked with designing, developing, and testing their assigned modules. The primary focus was to:

• Ensure seamless automation of inventory operations.
• Enhance usability through a user-centered interface design.
• Maintain accuracy and reliability through validation and real-time synchronization.

This structured and collaborative approach laid the foundation for developing a robust,



Prioritization Rationale:

The ideas generated during brainstorming were evaluated and prioritized according to their **impact**, **feasibility**, and **relevance** to the project's primary goal — improving the accuracy, automation, and efficiency of medical inventory management. The prioritization helped the team focus on implementing the most critical features first, ensuring that core functionalities directly contributing to operational efficiency and patient safety were addressed at the earliest stages of development.

Priority Level	Idea / Feature	Reason for Priority
High	**Expiry date tracking and alert automation**	Prevents the use of expired medical supplies and reduces wastage, directly enhancing patient safety.
High	**Real-time stock updates and threshold-based reordering**	Ensures continuous availability of essential medical supplies by automating restocking processes.
Medium	**Supplier performance analytics**	Improves procurement efficiency by providing insights into supplier reliability and delivery performance.
Medium	**Dashboard and reporting module**	Enables data-driven decision-making through visual analytics and performance reports.
Low	**Mobile access interface**	Considered a value-adding enhancement; can be implemented after the successful deployment of core features.