# Project Design Phase

# Problem–Solution Fit Template

| Date: | 03.11.2025 |
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| Project Name: | Medical Inventory Management |
| Team Id: | E6B89203D9C618592C84F3385E57DB7C |

**Project Title:** Medical Inventory Management System

## Problem Statement:

In healthcare institutions, the management of medical inventory is often handled manually, resulting in inefficiencies, errors, and time delays. Without an automated system, it becomes difficult to track stock levels, expiry dates, and supplier details. These manual processes frequently lead to overstocking or stockouts, expired medicines being used or wasted, and financial losses. There is an urgent need for a centralized, digital system that ensures accuracy, real-time tracking, and seamless control over the medical inventory lifecycle.

## Proposed Solution:

The Salesforce-based Medical Inventory Management System (MIMS) aims to automate and simplify the process of managing medical supplies. The system provides end-to-end management — from supplier information to purchase orders, stock tracking, and expiry monitoring. By using Salesforce objects, relationships, validation rules, and dashboards, it ensures transparency and reliability. The platform also supports secure access through user roles, profiles, and permission sets, enabling hospital staff and administrators to manage inventory efficiently with minimal manual effort.

## Key Benefits:

- **Automation:** Reduces manual intervention and speeds up inventory operations.

- **Accuracy:** Tracks expiry dates, stock quantities, and supplier performance precisely.

- **Transparency:** Real-time updates ensure better coordination across departments.

- **Scalability:** The system can be easily expanded to multiple branches or hospitals.

- **Data-Driven Insights:** Reports and dashboards support evidence-based decision making.

- **Security:** Role-based permissions safeguard sensitive inventory and supplier data.

- **Expected Outcomes: Once** implemented, the Medical Inventory Management System will transform traditional inventory handling into a modern, digital process. It will significantly reduce stock wastage, improve resource

allocation, and provide transparency in every step of procurement and usage. Healthcare professionals will have real-time access to critical data, ensuring uninterrupted patient care and operational efficiency.
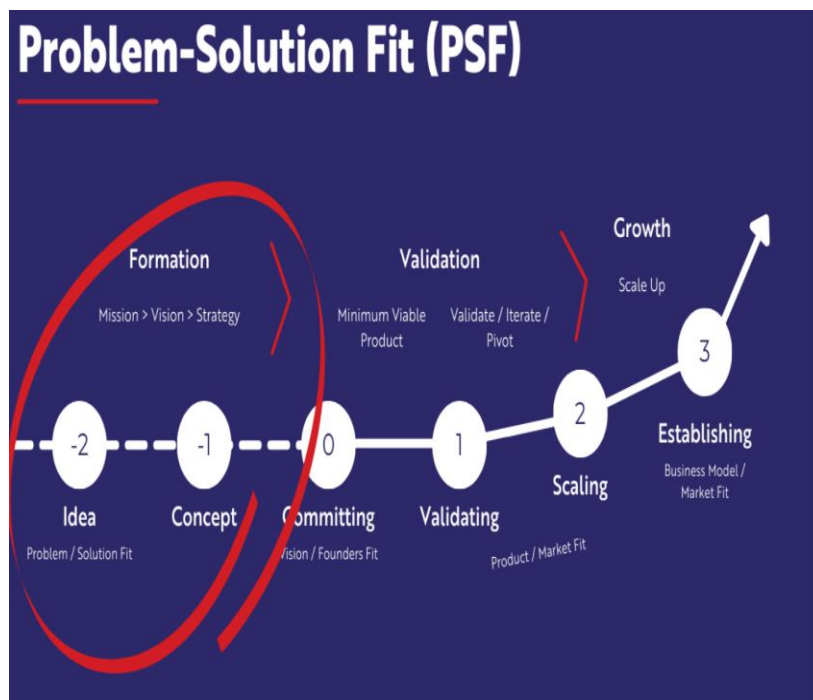


## Conclusion:

The Medical Inventory Management System effectively bridges the gap between manual management and modern automation. It integrates technology into healthcare logistics, optimizing supply chain operations, minimizing costs, and enhancing patient treatment outcomes. With this solution, hospitals and clinics can focus more on care delivery while maintaining a robust, reliable, and well-organized medical supply system.