

## Project Design Phase

### Problem – Solution Fit Template

Date: 03/11/2025

Team ID: NM2025TMID05036

Project Name: Medical Inventory Management

Maximum Marks: 2 Marks

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### Problem – Solution Fit Template:

The *Problem–Solution Fit* means identifying a real issue faced by users and creating a solution that effectively addresses it. It ensures that the solution truly aligns with user needs and real-world conditions, leading to faster adoption and improved efficiency.

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### Purpose:

- To solve complex stock management and tracking issues in healthcare environments.
  - To help hospitals and pharmacies avoid stock shortages, expired medicines, and manual record errors.
  - To improve communication and accuracy by offering automated alerts, dashboards, and real-time updates.
  - To ensure smooth healthcare operations by reducing human dependency and improving data accuracy.
  - To enhance decision-making by providing detailed analytics and reports for medical supply management.
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### References:

1. <https://www.ideahackers.network/problem-solution-fit-canvas/>
  2. <https://medium.com/@epicantus/problem-solution-fit-canvas-aa3dd59cb4fe>
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### Project Explanation:

The project “**Medical Inventory Management**” focuses on solving one of the most common issues faced by hospitals and clinics — inefficient tracking of medical supplies. Through automation, it eliminates the problems of manual stock maintenance, such as expired medicines, duplicate entries, and unavailable items during emergencies.

This solution introduces smart alerts for low stock and expiry dates, ensuring medical staff are always aware of inventory status. With accurate data recording and real-time updates, the system enhances patient care, operational efficiency, and transparency in healthcare management. It provides a strong foundation for digital healthcare operations that are reliable, secure, and error-free.