

MEDICAL INVENTORY MANAGEMENT SYSTEM

Presented By : Anish



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INTRODUCTION



THE IMPORTANCE OF MEDICAL INVENTORY MANAGEMENT SYSTEM.

The healthcare industry relies heavily on the availability and quality of medical supplies. Managing medical inventory manually or through outdated systems can lead to errors, inefficiencies, and even risk to patient safety. The Medical Inventory Management System, built on Salesforce, is designed to bring automation, traceability, and data-driven insights into inventory processes, ensuring timely replenishment and eliminating waste due to expired products.

PROBLEM STATEMENT

Traditional inventory systems in healthcare settings often face several issues:

- + LACK OF REAL-TIME VISIBILITY OF INVENTORY STATUS.
- + DIFFICULTY IN TRACKING PRODUCT EXPIRY DATES.
- + INACCURATE SUPPLIER PERFORMANCE DATA.
- + INEFFICIENT PURCHASE ORDER MANAGEMENT..
- + FRAGMENTED REPORTING AND ANALYTICS.



THIS PROJECT ADDRESSES THESE LIMITATIONS BY IMPLEMENTING A CENTRALIZED, CLOUD-BASED SOLUTION THAT LEVERAGES THE POWER OF SALESFORCE FOR SMARTER INVENTORY CONTROL.

OBJECTIVES OF THE SYSTEM

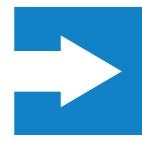
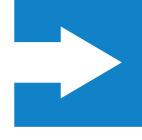
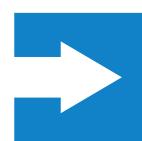
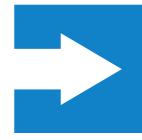
The main goals of the system are:

- + Maintain a comprehensive database of suppliers.
- + Track purchase orders efficiently.
- + Monitor stock levels and product details.
- + Ensure timely alerts for product expiry.
- + Generate real-time reports and dashboards.
- + Enable audit trails and transaction logs.



SYSTEM ARCHITECTURE

THE SYSTEM IS DEVELOPED ON THE SALESFORCE PLATFORM AND USES A COMBINATION OF:

-  **CUSTOM OBJECTS** FOR ENTITIES LIKE SUPPLIERS, PRODUCTS, PURCHASE ORDERS.
-  **AUTOMATION TOOLS** SUCH AS FLOWS AND PROCESS BUILDER FOR ALERTS AND UPDATES.
-  **REPORTS & DASHBOARDS** FOR DATA VISUALIZATION.
-  **SECURITY** USING PROFILES AND PERMISSION SETS TO ENSURE DATA PRIVACY.
-  **DATA RELATIONSHIPS** (LOOKUP/MASTER-DETAIL) TO LINK KEY ENTITIES.

KEY FEATURES AND MODULES

A. SUPPLIER MANAGEMENT

ADD/EDIT SUPPLIER DETAILS. TRACK CONTACT INFORMATION AND PAST TRANSACTIONS.

B. PRODUCT CATALOGING

DEFINE PRODUCT TYPES, CATEGORIES, AND UNITS. STORE BATCH NUMBERS, EXPIRY DATES, AND PRICING.

C. PURCHASE ORDER MANAGEMENT

CREATE AND APPROVE PURCHASE ORDERS. MONITOR ORDER STATUS AND DELIVERIES.

D. INVENTORY TRACKING

STOCK IN/OUT ENTRIES WITH QUANTITY AND DATE. AUTO-UPDATE STOCK LEVELS.

E. EXPIRY MONITORING

SET EXPIRY DATE ALERTS. PREVENT ALLOCATION OF EXPIRED ITEMS.

F. REPORTING MODULE

SUPPLIER PERFORMANCE REPORTS. PRODUCT USAGE AND STOCK REPORTS. EXPIRY AND REORDER ALERTS.



IMPLEMENTATION ON SALESFORCE

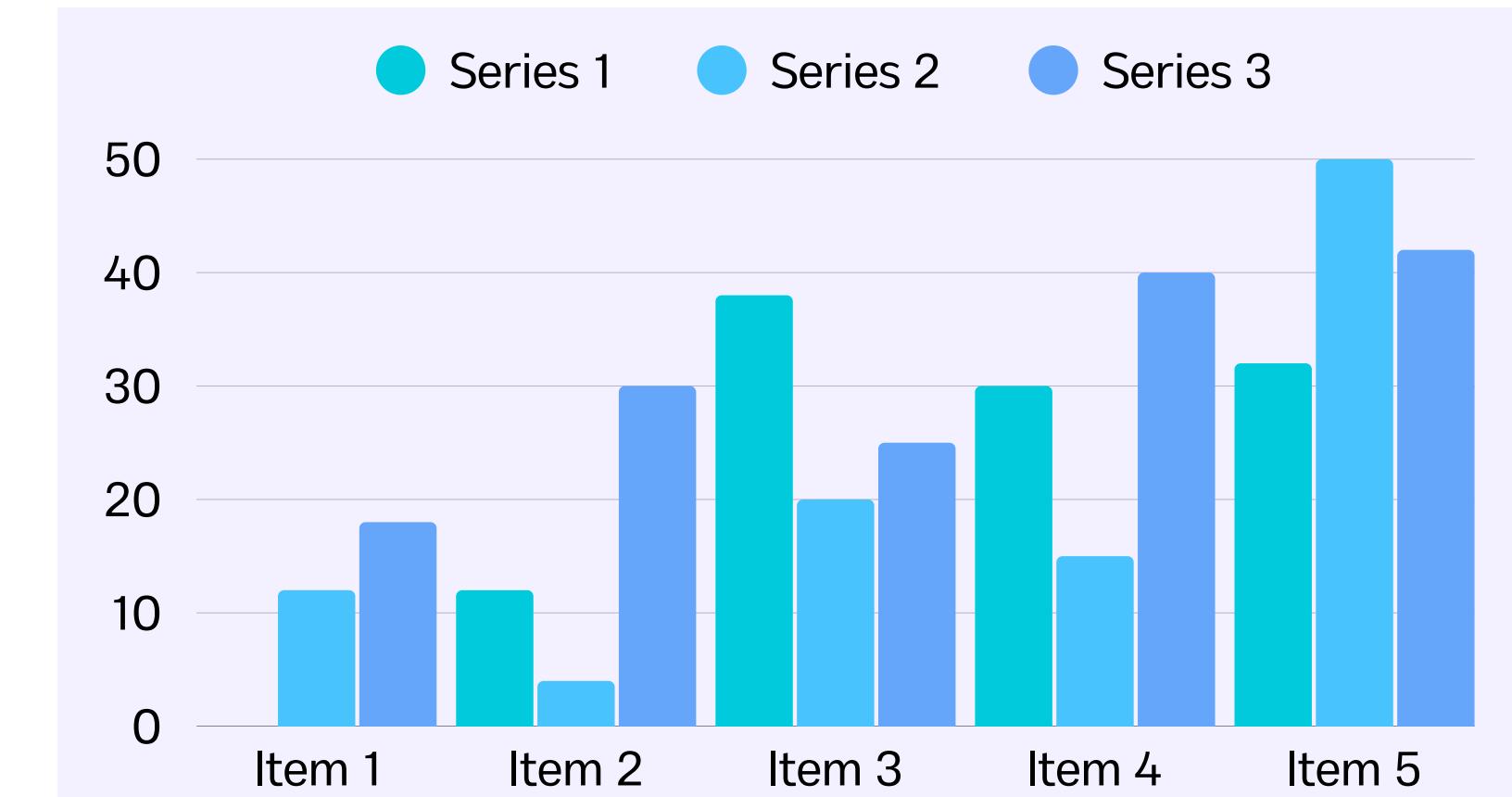
This project uses Salesforce's low-code capabilities to rapidly develop and deploy the application:

Custom Objects: Suppliers, Products, Inventory Transactions, Purchase Orders.

Automation: Flow Builder to send expiry alerts and update stock levels.

Validation Rules: Ensuring data integrity (e.g., no expired product in transactions)..

Reports & Dashboards: Created using Salesforce Analytics for real-time insights.



Lightning App Builder: Customized UI for easy navigation and record management.

BENEFITS AND IMPACT

THIS SYSTEM SIGNIFICANTLY ENHANCES THE WAY HEALTHCARE PROVIDERS MANAGE THEIR MEDICAL SUPPLIES, WITH A DIRECT IMPACT ON PATIENT SAFETY AND OPERATIONAL COSTS..

- ✓ **EFFICIENCY:** AUTOMATION REDUCES MANUAL TASKS AND TIME.
- ✓ **ACCURACY:** REAL-TIME UPDATES MINIMIZE DATA DISCREPANCIES.
- ✓ **COMPLIANCE:** EXPIRY TRACKING ENSURES REGULATORY COMPLIANCE.
- ✓ **TRANSPARENCY:** CENTRALIZED DATA IMPROVES ACCOUNTABILITY AND AUDITING.
- ✓ **COST SAVINGS:** BETTER INVENTORY CONTROL REDUCES OVERSTOCKING OR WASTAGE.



CONCLUSION AND FUTURE ENHANCEMENTS

THE MEDICAL INVENTORY MANAGEMENT SYSTEM ON SALESFORCE PROVIDES A RELIABLE, SCALABLE, AND EFFICIENT WAY TO MANAGE INVENTORY IN MEDICAL FACILITIES. FUTURE ENHANCEMENTS MAY INCLUDE:

INTEGRATION WITH BARCODE SCANNERS FOR PHYSICAL INVENTORY SYNC.

AI-BASED DEMAND FORECASTING.

MOBILE APP VERSION FOR ON-THE-GO ACCESS.

INTEGRATION WITH SUPPLIERS' APIs FOR REAL-TIME ORDER TRACKING.

WITH CONTINUOUS IMPROVEMENT, THIS SYSTEM HAS THE POTENTIAL TO BECOME A CORE COMPONENT OF HOSPITAL AND CLINIC OPERATIONS.

THANK YOU ''