

MEDICAL INVENTORY MANAGEMENT

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of arts and science

College code : BRU4M

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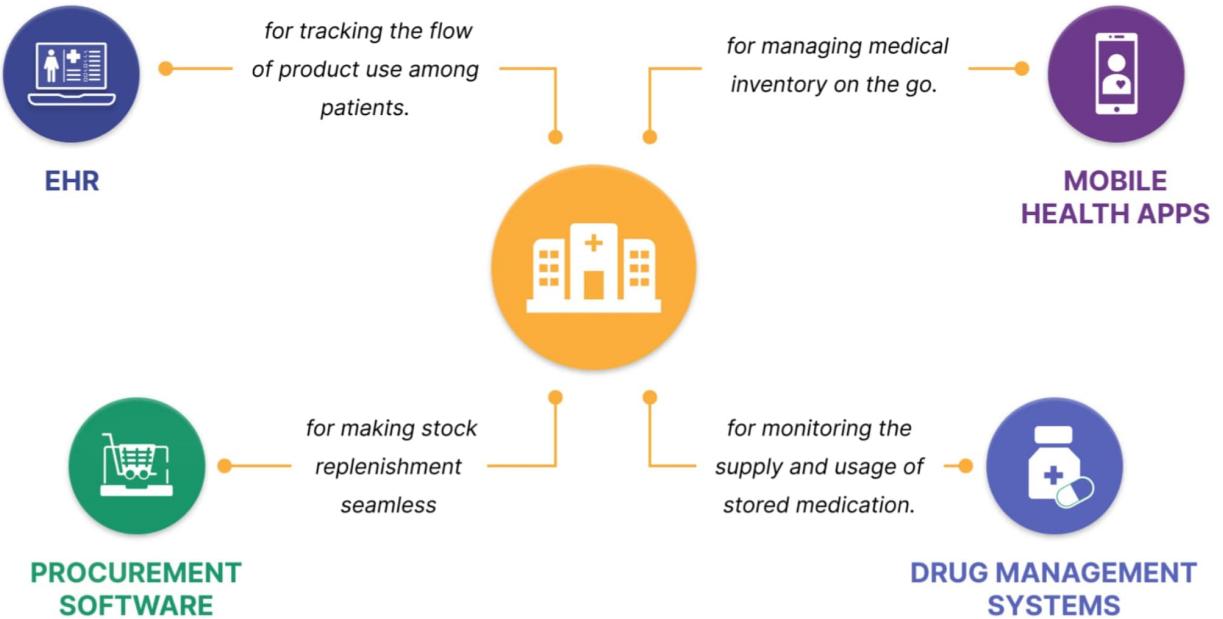
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Introduction

Project review

This project is a comprehensive Salesforce application to streamline and manage various operational aspects of medical inventory. The system efficiently maintains supplier details, manages purchase orders, tracks product details and transaction and monitors the expired dates of products. It provides a comprehensive report and tracks supplier performance and purchased orders.



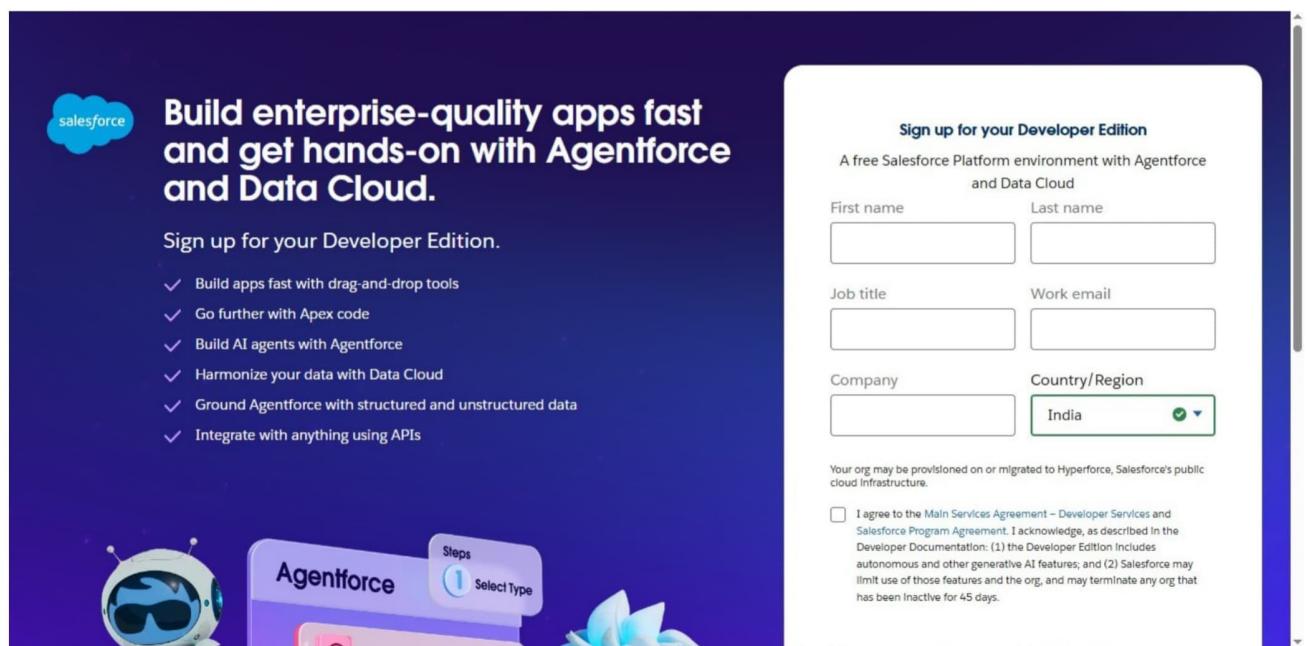
1.2 purpose

- 1. Ensures essential medicines and medical supplies are always available when needed.**
- 2. Prevents overstocking, shortages, and reduces wastage through expiry tracking.**
- 3. Automates ordering, stock monitoring, and reporting to save time and reduce errors.**
- 4. Maintains compliance with healthcare regulations and improves traceability.**
- 5. Supports better decision-making and improves overall patient care quality.**

DEVELOPMENT PHASE

Creating Developer Account:

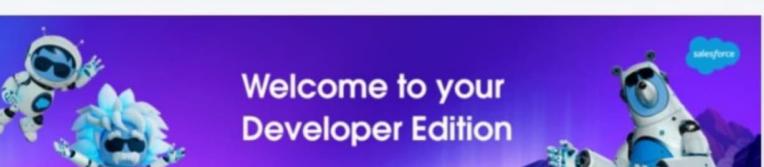
By using this URL - <https://www.salesforce.com/form/developer-signup/?d=pb>



← → ⓘ 📈 🗑️ 📎 🗃️ ⏴

Welcome to Salesforce: Reset your password Inbox x

 support@salesforce.com <support@salesforce.com>to me Aug 31, 2025, 9:38 PM (6 days ago) ⭐ 😊 ⏵



Hi SANTHOSHKUMAR,

Thanks for signing up for a Developer Edition. Now you can start building on Salesforce for free and get hands-on with Agentforce and Data Cloud.

There's just one more step. Use the following link to reset the password for your Developer Edition. This link expires in 24 hours.

[Reset Password](#)

To easily log in later, save this URL:
<https://orgfarm-bb4dcaca6e-dev-ed.develop.my.salesforce.com>

Here's the username for your Developer Edition:
kumarsanthosh22831193@agentforce.com

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First name Last name
 Job title Work email
 Company Country/Region

Your org may be provisioned on or migrated to Hyperforce, Salesforce's public cloud Infrastructure.

I agree to the Main Services Agreement – Developer Services and Salesforce Program Agreement. I acknowledge, as described in the Developer Documentation: (1) the Developer Edition includes autonomous and other generative AI features; and (2) Salesforce may limit use of those features and the org, and may terminate any org that has been inactive for 45 days.

● Creating a tab for Product, Purchase Order, Order Item, Inventory Transaction, Supplier in custom object tab

Setup > OBJECT MANAGER

Product

Details

Description

API Name
Product_c

Singular Label
Product

Plural Label
Products

Enable Reports

Track Activities

Track Field History

Deployment Status
Deployed

Help Settings
Standard salesforce.com Help Window

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

List View Button Layout

Restriction Rules

Scoping Rules

Object Access

Edit **Delete**

Setup Home Object Manager

SETUP > OBJECT MANAGER
Order Item

Details

Description

API Name
Order_Item__c

Custom

Singular Label
Order Item

Plural Label
Order Items

Enable Reports
✓

Track Activities

Track Field History

Deployment Status
Deployed

Help Settings
Standard salesforce.com Help Window

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

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Field Sets

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Search Layouts

List View Button Layout

Restriction Rules

Scoping Rules

Object Access

Edit Delete

Setup Home Object Manager

SETUP > OBJECT MANAGER
Inventory Transaction

Fields & Relationships
6 items, Sorted by Field Label

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Inventory Transaction ID	Name	Text(80)	✓	▼
Last Modified By	LastModifiedById	Lookup(User)		
Purchase Order ID	Purchase_Order_ID__c	Master-Detail(Purchase Order)	✓	▼
Total Order Cost	Total_Order_Cost__c	Formula (Currency)		▼
Transaction Type	Transaction_Type__c	Picklist		▼

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

List View Button Layout

Restriction Rules

Scoping Rules

Object Access

Setup > Object Manager

Purchase Order

Details

Description

API Name
Purchase_Order__c

Custom
✓

Singular Label
Purchase Order

Plural Label
Purchase Orders

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

List View Button Layout

Restriction Rules

Scoping Rules

Object Access

Details

Enable Reports

Track Activities

Track Field History

Deployment Status
Deployed

Help Settings
Standard salesforce.com Help Window

Edit Delete

Setup > Object Manager

Supplier

Details

Description

API Name
Supplier__c

Custom
✓

Singular Label
Supplier

Plural Label
Suppliers

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

List View Button Layout

Restriction Rules

Scoping Rules

Object Access

Details

Enable Reports

Track Activities

Track Field History

Deployment Status
Deployed

Help Settings
Standard salesforce.com Help Window

Edit Delete

•Creating a tab for Product,Purchase Order, Order Item, Inventory Transaction, Supplier in custom object tab

The screenshot shows the Salesforce Setup interface with the 'Tabs' page selected. The left sidebar includes links for 'User Interface' (with 'Rename Tabs and Labels' and 'Tabs' selected), 'Global Search', and 'Help'. The main content area has a title 'Custom Tabs' with a 'Help for this Page' link. It contains sections for 'Custom Object Tabs', 'Web Tabs', 'Visualforce Tabs', and 'Lightning Component Tabs'. The 'Custom Object Tabs' section lists tabs for 'Inventory Transactions' (Building style), 'Order Items' (Books style), 'Products' (Airplane style), 'Purchase Orders' (Bank style), and 'Suppliers' (Can style). Each row includes 'Edit | Del' actions and a 'What Is This?' link.

Action	Label	Tab Style	Description
Edit Del	Inventory Transactions	Building	
Edit Del	Order Items	Books	
Edit Del	Products	Airplane	
Edit Del	Purchase Orders	Bank	
Edit Del	Suppliers	Can	

● Create a Lightning App for Medical Inventory Management

Lightning App Builder | App Settings | Pages ▾ | Medical Inventory Management | ? Help

App Settings

App Details & Branding

App Details & Branding

Give your Lightning app a name and description. Upload an image and choose the highlight color for its navigation bar.

App Details

* App Name

* Developer Name

Description

App Branding

Image

Primary Color Hex Value

Org Theme Options Use the app's image and color instead of the org's custom theme

App Launcher Preview



Lightning App Builder | App Settings | Pages ▾ | Medical Inventory Management | ? Help

App Settings

Navigation Items

Navigation Items

Choose the items to include in the app, and arrange the order in which they appear. Users can personalize the navigation to add or move items, but users can't remove or rename the items that you add. Some navigation items are available only for phone or only for desktop. These items are dropped from the navigation bar when the app is viewed in a format that the item doesn't support.

Available Items

Type to filter list...

- Accounts
- Activation Targets
- Activations
- All Sites
- Alternative Payment Methods
- Analytics
- App Launcher
- Appointment Categories
- Appointment Invitations
- Approval Requests
- Approval Submission Details

Selected Items

- Purchase Orders
- Order Items
- Inventory Transactions
- Suppliers
- Products
- Reports
- Dashboards

Lightning App Builder | App Settings | Pages ▾ | Medical Inventory Management | ? Help

App Settings

User Profiles

User Profiles

Choose the user profiles that can access this app.

Available Profiles

Type to filter list...

- Analytics Cloud Integration User
- Analytics Cloud Security User
- Anypoint Integration
- Authenticated Website
- Authenticated Website
- B2B Reordering Portal Buyer Profile
- Contract Manager
- Custom: Marketing Profile
- Custom: Sales Profile
- Custom: Support Profile
- Customer Community Login User
- Customer Community Plus Login User

Selected Profiles

- System Administrator
- Inventory Manager
- Purchase Manager

•Creating a Product Name, Product Description, Current Stock Level, Unit Price Field in Product Object

The screenshot shows the Salesforce Setup interface for the Product object. The left sidebar includes links for Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, and List View Button Layout. The main area displays the 'Fields & Relationships' section with 8 items, sorted by Field Label. The table columns are FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Current Stock Level	Current_Stock_Level_c	Number(18, 0)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓
Product Description	Product_Description_c	Text Area(255)		
Product ID	Name	Text(80)		✓
Product Name	Product_Name_c	Text(255)		
Unit Price	Unit_Price_c	Currency(16, 2)		

•Creating a Supplier ID, Order Date, Order Count, Field in Purchase Order Object

The screenshot shows the Salesforce Setup interface for the Purchase Order object. The left sidebar includes links for Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, and List View Button Layout. The main area displays the 'Fields & Relationships' section with 11 items, sorted by Field Label. The table columns are FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Actual Delivery Date	Actual_Delivery_Date_c	Date		
Authorization Form Text	Authorization_Form_Text_c	Master-Detail(Authorization Form Text)		✓
Created By	CreatedById	Lookup(User)		
Expected Delivery Date	Expected_Delivery_Date_c	Date		
Last Modified By	LastModifiedById	Lookup(User)		
Order Count	Order_Count_c	Roll-Up Summary (COUNT Order Item)		
Order Date	Order_Date_c	Date		
Order Item	Order_Item_c	Lookup(Order Item)		✓
Purchase Order ID	Name	Text(80)		✓
Supplier ID	Supplier_ID_c	Lookup(Supplier)		✓
Total Order Cost	Total_Order_Cost_c	Currency(16, 2)		

•Creating a Unit Price, Amount Field in Order Item object

SETUP > OBJECT MANAGER
Order Item

Fields & Relationships					
FIELD LABEL		FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Amount	Amount_c	Formula (Currency)			
Created By	CreatedById	Lookup(User)			
Last Modified By	LastModifiedById	Lookup(User)			
Order Date	Order_Date_c	Date			
Order Item ID	Name	Text(80)		✓	
Product ID	Product_ID_c	Master-Detail(Product)		✓	
Purchase Order ID	Purchase_Order_ID_c	Master-Detail(Purchase Order)		✓	
Unit Price	Unit_Price_c	Formula (Currency)			

•Creating a Transaction Type, Total Order Cost Field in Inventory Transaction Object

SETUP > OBJECT MANAGER
Inventory Transaction

Fields & Relationships					
FIELD LABEL		FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)			
Inventory Transaction ID	Name	Text(80)		✓	
Last Modified By	LastModifiedById	Lookup(User)			
Purchase Order ID	Purchase_Order_ID_c	Master-Detail(Purchase Order)		✓	
Total Order Cost	Total_Order_Cost_c	Formula (Currency)			
Transaction Type	Transaction_Type_c	Picklist			

• Creating a Phone Number, Email Field in Supplier object

The screenshot shows the Salesforce Setup interface for creating fields in the Supplier object. The left sidebar lists various setup categories like Details, Fields & Relationships, Page Layouts, etc. The main area is titled 'Fields & Relationships' and shows a table of existing fields:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Email	Email__c	Email		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓
Phone Number	Phone_Number__c	Phone		
Supplier ID	Name	Text(80)		✓

• To edit a Page Layout in Product Object

The screenshot shows the Salesforce Setup interface for editing a page layout for the Product object. The left sidebar lists various setup categories like Details, Fields & Relationships, Page Layouts, etc. The main area shows the 'Page Layouts' configuration screen for the Product object. It includes sections for Fields, Information, System Information, and Custom Links, along with a Mobile Cards section for mobile devices.

•Create a Product Compact Layout to a Product Object

SETUP > OBJECT MANAGER
Product

Product Compact Layout

Compact Layout Detail

Label	Product Compact Layout	Object Name	Product
API Name	Product_Compact_Layout		
Included Fields	Product Name Unit Price Current Stock Level		
Created By	SANTHOSH KUMAR S 9/5/2025, 4:57 AM	Modified By	SANTHOSH KUMAR S 9/5/2025, 4:57 AM

Help for this Page

Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters
Search Layouts
List View Button Layout
Restriction Rules
Scoping Rules
Object Access

•Create a Purchase Order Compact Layout to a Purchase Order Object

SETUP > OBJECT MANAGER
Purchase Order

Purchase Order Compact Layout

Compact Layout Detail

Label	Purchase Order Compact Layout	Object Name	Purchase Order
API Name	Purchase_Order_Compact_Layout		
Included Fields	Purchase Order ID Order Date Supplier ID Total Order Cost		
Created By	SANTHOSH KUMAR S 9/5/2025, 5:00 AM	Modified By	SANTHOSH KUMAR S 9/5/2025, 5:00 AM

Help for this Page

Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters
Search Layouts
List View Button Layout
Restriction Rules
Scoping Rules
Object Access

•Create an Expected Delivery Date Validation rule to Purchase Order

The screenshot shows the Salesforce Setup interface with the following details:

- Page Header:** Search Setup, Home, Object Manager.
- Page Title:** Purchase Order Validation Rule
- Section:** Purchase Order
- Validation Rule Detail:**
 - Rule Name: Expected_Delivery_Date__Validation
 - Error Condition Formula: (Expected_Delivery_Date__c - Order_Date__c) > 7
 - Error Message: The Expected Delivery Date should not exceed 7 days
 - Description: (empty)
 - Created By: SANTHOSH KUMAR S. 9/5/2025, 5:43 AM
 - Modified By: SANTHOSH KUMAR S. 9/5/2025, 5:43 AM
- Left Sidebar:** Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, List View Button Layout, Restriction Rules, Scoping Rules, Object Access.

•Create an Inventory Manager Profile

The screenshot shows the Salesforce Setup interface with the following details:

- Page Header:** Search Setup, Home, Object Manager.
- Page Title:** Profiles
- Section:** Profiles
- Profile Detail:**
 - Name: Inventory Manager
 - User License: Salesforce
 - Description: (empty)
 - Created By: SANTHOSH KUMAR S. 9/5/2025, 5:46 AM
 - Modified By: SANTHOSH KUMAR S. 9/6/2025, 2:36 AM
- Page Layouts:**

Object	Layout	Assignment
Global	Global Layout [View Assignment]	Location Group Assignment [View Assignment]
Email Application	Not Assigned [View Assignment]	Macro [View Assignment]
Home Page Layout	Home Page Default [View Assignment]	Object Milestone [View Assignment]
Account	Account Layout [View Assignment]	Operating Hours [View Assignment]
Alternative Payment Method	Alternative Payment Method Layout [View Assignment]	Opportunity [View Assignment]
Appointment Invitation	Appointment Invitation Layout [View Assignment]	Opportunity Product [View Assignment]
Accord	Accord Layout [View Assignment]	Order [View Assignment]
- Left Sidebar:** Hyperforce Assistant, Users, Data, Feature Settings, Data.com, Marketing, Sales, Products, Asset Settings, Product Schedules, Settings, Product Settings.

•Create an Purchase Manager Profile.

The screenshot shows the Salesforce Setup interface with the following details:

Left Navigation Bar:

- Setup
- Home
- Object Manager
- Q pro
- Hyperforce Assistant
- Users
- Profiles (selected)
- Data
- Mass Transfer Approval Requests
- Feature Settings
- Approval Settings
- Data.com
- Prospector Preferences
- Prospector Users
- Functions
- Marketing
- Lead Processes
- Sales
- Products
- Asset Settings
- Product Schedules Settings
- Product Settings

Top Bar:

- Search Setup
- Help for this Page

Profile Detail:

Profile: Purchase Manager

Description: Users with this profile have the permissions and page layouts listed below. Administrators can change a user's profile by editing that user's personal information.

If your organization uses Record Types, use the Edit links in the Record Type Settings section below to make one or more record types available to users with this profile.

Profile Detail:

Name	Purchase Manager	Custom Profile
User License	Salesforce	<input checked="" type="checkbox"/>
Description		
Created By	SANTHOSH KUMAR S 9/5/2025, 5:51 AM	Modified By SANTHOSH KUMAR S 9/6/2025, 2:36 AM

Page Layouts:

Standard Object Layouts	Global	Location Group Assignment
Email Application	Global Layout [View Assignment]	Macro Layout [View Assignment]
Home Page Layout	Not Assigned [View Assignment]	Object Milestone Layout [View Assignment]
Account	Home Page Default [View Assignment]	Operating Hours Layout [View Assignment]
Alternative Payment Method	Account Layout [View Assignment]	Opportunity Layout [View Assignment]
Appointment Invitation	Alternative Payment Method Layout [View Assignment]	Opportunity Product Layout [View Assignment]
Asset	Appointment Invitation Layout [View Assignment]	Order Line Item Layout [View Assignment]
Asset	Asset I would [View Assignment]	

• Create a Purchase Manager Role .

The screenshot shows the Salesforce Setup interface under the Roles section. The search bar at the top contains 'rol'. The main content area displays the 'Purchasing Manager' role details. The 'Role Detail' section includes fields for Label ('Purchasing Manager'), Modified By ('SANTHOSHKUMAR.S'), and Opportunity Access ('Users in this role can edit all opportunities associated with accounts that they own, regardless of who owns the opportunities'). The 'Users in Purchasing Manager Role' section lists one user: 'purchaseM John' (alias 'jouc', username 'mlorette@blue7190.com', active status checked). A note at the bottom left says 'Didn't find what you're looking for? Try using Global Search.'

• Create an Inventory Manager Role.

The screenshot shows the Salesforce Setup interface under the Roles section. The search bar at the top contains 'rol'. The main content area displays the 'Inventory Manager' role details. The 'Role Detail' section includes fields for Label ('Inventory Manager'), Modified By ('SANTHOSHKUMAR.S'), and Opportunity Access ('Users in this role can edit all opportunities associated with accounts that they own, regardless of who owns the opportunities'). The 'Users in Inventory Manager Role' section lists one user: 'ram krishna' (alias 'kris', username 'tkim@yellow7777.com', active status checked). A note at the bottom left says 'Didn't find what you're looking for? Try using Global Search.'

• Create a Purchase Manager Create Access To Permission Set.

The screenshot shows the Salesforce Setup interface. In the top left, there's a search bar with 'Search Setup'. The top navigation bar includes 'Setup', 'Home', 'Object Manager', and various icons for configuration. On the left, a sidebar has a search bar ('Q perm') and sections for 'Users' (with 'Permission Set Groups' and 'Permission Sets' selected), 'Custom Code', and 'Custom Permissions'. A message at the bottom says ' Didn't find what you're looking for? Try using Global Search.' The main content area is titled 'Permission Sets' and shows a 'Purchase Manager Create Access' permission set. It has fields for 'Description' (empty), 'License' (empty), 'Session Activation Required' (unchecked), 'Permission Set Groups Added To' (0), 'API Name' (Purchase_Manager_Create_Access), 'Namespace Prefix' (empty), 'Created By' (SANTHOSHKUMAR_S, 9/5/2025, 6:00 AM), and 'Last Modified By' (SANTHOSHKUMAR_S, 9/5/2025, 6:04 AM). Below this is a section titled 'Apps' with a list of assigned apps: Assigned Apps, Assigned Connected Apps, Object Settings, App Permissions, Apex Class Access, Visualforce Page Access, External Data Source Access, and Flow Access.

• Create a Flow Actual Delivery Date Updating.

The screenshot shows the Salesforce Flow Builder interface. The top navigation bar includes 'Flow Builder', 'Actual Delivery Date Updating - V1', and various buttons for saving and running the flow. The main area displays a 'Record-Triggered Flow' starting with a 'Start' node. The flow consists of the following steps: 'Get Purchase Record' (Get Records), 'Assignment' (Assignment), 'Updating Purchasing Order' (Update Records), and an 'End' node. Each step has a '+' icon below it for adding more instances. The flow is triggered by 'A record is created or updated' on the 'Purchase Order' object, optimized for 'Fast Field Updates'. There are also buttons for 'Select Elements', 'Auto-Layout', and 'Run/Debug/Test'.

• Apex Trigger Create an Apex Trigger

The screenshot shows the Salesforce IDE interface. The top navigation bar includes File, Edit, Debug, Test, Workspace, Help, and a Go To button. Below the navigation bar, there are tabs for 'CalculateTotalAmountTrigger.apxt' and 'CalculateTotalAmountHandler.apxc'. A dropdown menu shows 'Code Coverage: None' and 'API Version: 64'. The main area contains the following Apex trigger code:

```
1 trigger CalculateTotalAmountTrigger on Order_Item__c (after insert, after update, after delete, after undelete) {  
2     // Call the handler class to handle the logic  
3     CalculateTotalAmountHandler.calculateTotal(Trigger.new, Trigger.old, Trigger.isInsert, Trigger.isUpdate, Trigger.isDelete, Trigger.isUndelete);  
4 }  
5  
6  
7 }
```

Below the code editor is a logs table with columns: Logs, Tests, Checkpoints, Query Editor, View State, Progress, and Problems. The 'Logs' tab is selected. The table has one row with columns: User, Application, Operation, Time, Status, Read, and Size. At the bottom of the interface is a filter bar with 'Filter' and 'Click here to filter the log list'.

• Create an Apex Handler class.

The screenshot shows the Salesforce IDE interface. The top navigation bar includes File, Edit, Debug, Test, Workspace, Help, and a Go To button. Below the navigation bar, there are tabs for 'CalculateTotalAmountTrigger.apxt' and 'CalculateTotalAmountHandler.apxc'. A dropdown menu shows 'Code Coverage: None' and 'API Version: 64'. The main area contains the following Apex Handler class code:

```
1 public class CalculateTotalAmountHandler {  
2     // Method to calculate the total amount for Purchase Orders based on related Order Items  
3     public static void calculateTotal(List<Order_Item__c> newItems, List<Order_Item__c> oldItems, Boolean isInsert, Boolean isUpdate, Boolean isDelete, Boolean isUndelete) {  
4         // Collect Purchase Order IDs affected by changes in Order_Item__c records  
5         Set<Id> parentIds = new Set<Id>();  
6  
7         // For insert, update, and undelete scenarios  
8         if (isInsert || isUpdate || isDelete || isUndelete) {  
9             for (Order_Item__c item : newItems) {  
10                 parentIds.add(item.getPurchase_Order__c);  
11             }  
12             for (Order_Item__c item : oldItems) {  
13                 parentIds.add(item.getPurchase_Order__c);  
14             }  
15         }  
16         // Calculate total amount for each purchase order  
17         Map<Id, Double> totals = new Map<Id, Double>();  
18         for (Order_Item__c item : newItems) {  
19             if (parentIds.contains(item.getPurchase_Order__c)) {  
20                 if (totals.containsKey(item.getPurchase_Order__c)) {  
21                     totals.put(item.getPurchase_Order__c, totals.get(item.getPurchase_Order__c) + item.getUnitPrice());  
22                 } else {  
23                     totals.put(item.getPurchase_Order__c, item.getUnitPrice());  
24                 }  
25             }  
26         }  
27         for (Order_Item__c item : oldItems) {  
28             if (parentIds.contains(item.getPurchase_Order__c)) {  
29                 if (totals.containsKey(item.getPurchase_Order__c)) {  
30                     totals.put(item.getPurchase_Order__c, totals.get(item.getPurchase_Order__c) - item.getUnitPrice());  
31                 } else {  
32                     totals.put(item.getPurchase_Order__c, -item.getUnitPrice());  
33                 }  
34             }  
35         }  
36         // Update Purchase Order with new total amount  
37         for (Id orderId : parentIds) {  
38             Purchase_Order__c order = [SELECT Id, Total_Amount__c FROM Purchase_Order__c WHERE Id = :orderId];  
39             if (order != null) {  
40                 order.Total_Amount__c = totals.get(order.Id);  
41                 update order;  
42             }  
43         }  
44     }  
45 }
```

Below the code editor is a logs table with columns: Logs, Tests, Checkpoints, Query Editor, View State, Progress, and Problems. The 'Logs' tab is selected. The table has one row with columns: User, Application, Operation, Time, Status, Read, and Size. At the bottom of the interface is a filter bar with 'Filter' and 'Click here to filter the log list'.

Create a Purchase Orders based on Suppliers and Complete Purchase Details Report to Medical Inventory Management App in Reports Tab.

SalesLogix

Medical Inventory ... Purchase Orders Order Items Inventory Transactions Suppliers Products Reports Dashboards

Report: Purchase Order History
Purchase Orders based on Suppliers

Total Records: 0 Total Order Count: 0 Total Total Order Cost: \$0.00

No Results

No records returned. Try editing report filters.

Row Counts: Detail Rows: Subtotals: Grand Total:



A screenshot of a web-based reporting interface for a medical inventory management system. The top navigation bar includes links for Purchase Orders, Order Items, Inventory Transactions, Suppliers, Products, Reports, and Dashboards. The current page is under the Reports section. The main content area displays a report titled "Purchase Orders based on Suppliers". It shows summary statistics: Total Records (0), Total Order Count (0), and Total Total Order Cost (\$0.00). Below the stats is a decorative illustration of a cactus and a sun. A message "No Results" is centered, followed by the sub-instruction "No records returned. Try editing report filters." At the bottom, there are checkboxes for Row Counts, Detail Rows, Subtotals, and Grand Total, with the first three being checked.

SalesLogix

Medical Inventory ... Purchase Orders Order Items Inventory Transactions Suppliers Products Reports Dashboards

Report: Products with Order Items and Purchase Orders
Complete Purchase Details Report

Total Records: 0 Total Purchase Order ID: Order C... Total Amount: \$0.00

No Results

No records returned. Try editing report filters.

Row Counts: Detail Rows: Subtotals: Grand Total:



A second screenshot of the same web-based reporting interface. The top navigation bar and report title ("Complete Purchase Details Report") are identical to the first screenshot. The main content area shows summary statistics: Total Records (0), Total Purchase Order ID (Order C...), and Total Amount (\$0.00). Below the stats is the same decorative illustration of a cactus and a sun. A message "No Results" is centered, followed by the sub-instruction "No records returned. Try editing report filters." At the bottom, there are checkboxes for Row Counts, Detail Rows, Subtotals, and Grand Total, with the first three being checked.

•Create a Medical Inventory DashBoard to Medical Inventory Management App in Dashboard Tab.

This screenshot shows the Microsoft Power BI interface for creating a dashboard. The top navigation bar includes links for Purchase Orders, Order Items, Inventory Transactions, Suppliers, Products, Reports, and Dashboards. A search bar at the top right allows for searching recent dashboards. The main area is titled "Medical Inventory ...". On the left, there's a sidebar with categories: Dashboards (Recent, 1 item), Folders (Created by Me, Private Dashboards, All Dashboards), and Favorites (Created by Me, Shared with Me). The main content area displays a table for "DASHBOARDS" with one row for "Recent". The row details are: Dashboard Name - Medical Inventory DashBoard, Description - , Folder - Private Dashboards, Created By - SANTHOSH KUMAR S, Created On - 9/5/2025, 7:50 AM, and Subscribed - . At the bottom right of the main area, there's a message: "Activate Windows Go to Settings to activate Windows.".

Final output

This screenshot shows the final "Medical Inventory DashBoard" as of Sep 5, 2025, 7:55 AM, viewed by SANTHOSH KUMAR S. The dashboard has two main cards. The first card, "Purchase Orders based on Suppliers", features a gauge chart with a scale from 0 to 100. The second card, "Complete Purchase Details Report", also features a similar gauge chart. Both cards have "View Report" buttons and a timestamp of "As of Sep 6, 2025, 2:58 AM". The top navigation bar and search bar are identical to the previous screenshot.

Advantages

1. Improved Efficiency

Automates tracking, reduces manual work.

Streamlines ordering and stock management.

2. Cost Control

Minimizes waste and overstocking.

Prevents loss from expired or unused items.

3. Accurate Inventory Tracking

Real-time updates on stock levels.

Tracks expiry dates, batch numbers, and usage.

4. Regulatory Compliance

Supports compliance with healthcare standards (e.g., FDA, HIPAA).

Provides audit-ready documentation.

5. Better Patient Care

Ensures essential supplies are available when needed.

Reduces delays in treatment or procedures.

6. Informed Decision-Making

Offers data analytics for demand forecasting.

Supports better budgeting and procurement planning.

Disadvantages

1. High Initial Costs

Requires investment in software, hardware, and setup.

Ongoing maintenance can be expensive.

2. Training Needs

Staff must be trained to use the system effectively.

Poor training can lead to errors and inefficiencies.

3. Technical Issues

System downtime can disrupt supply access.

May delay urgent medical services.

4. Complexity in Integration

Difficult to integrate with other hospital systems (EHR, billing).

Customization can be time-consuming.

5. Cybersecurity Risks

Sensitive inventory and patient data must be protected.

Requires robust data protection and compliance.