

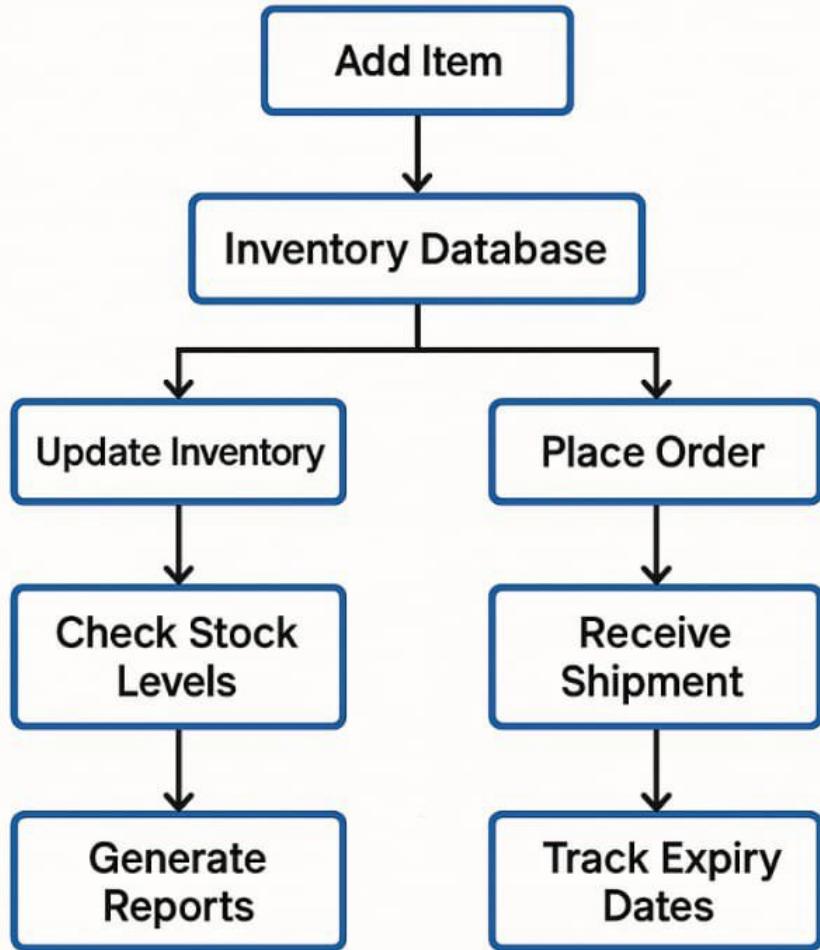
# **Title:-Medical Inventory Management**

## **Project Overview :**

- The Medical Inventory Management System is a digital solution developed to manage medicines, medical equipment, and consumables in hospitals, clinics, and pharmacies.
- The healthcare sector plays a crucial role in society by ensuring the timely availability of medicines, medical equipment, and consumables. However, managing medical inventory manually often results in inefficiency, errors, wastage, and treatment delays.

## **Objectives:**

1. **Digitize Inventory Records** – Replace manual tracking with an automated digital system.
2. **Real-time Stock Monitoring** – Maintain accurate availability of medicines and equipment.
3. **Expiry Tracking & Alerts** – Notify users before medicines expire to reduce wastage.
4. **Low Stock Notifications** – Alert admin/pharmacist when items reach minimum stock level.
5. **Automated Report Generation** – Generate sales, purchase, and usage reports for analysis.
6. **Supplier & Vendor Management** – Maintain records of suppliers for quick reordering.
7. **Role-based Access** – Provide different access levels for admin, pharmacist, and staff.
8. **Improve Patient Care** – Ensure timely availability of medical resources.
9. **Enhance Operational Efficiency** – Save time, reduce human errors, and optimize stock usage.
10. **Skill Development for Students** – Train in software development, databases, and healthcare IT under the Naan Mudhalvan initiative.



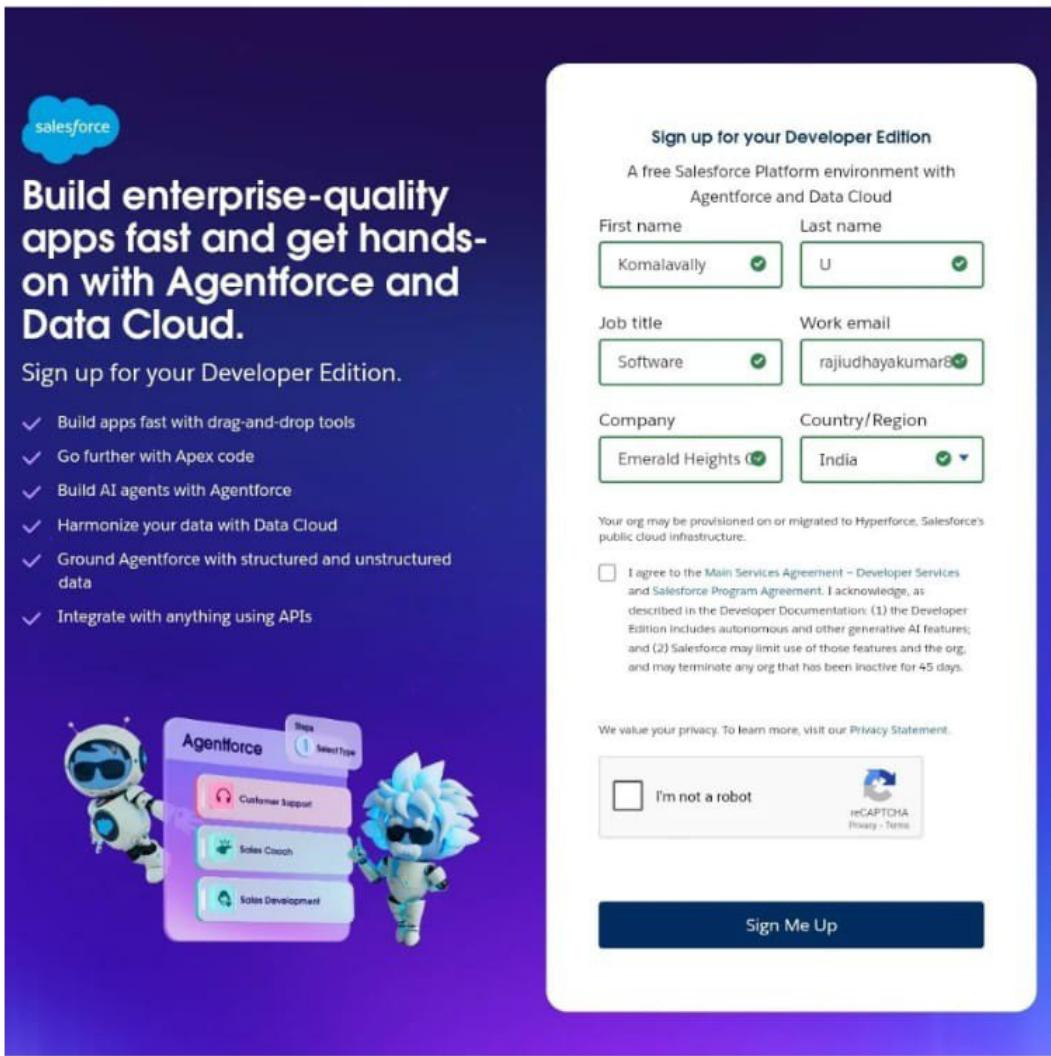
### Purpose :

- The purpose of Medical Inventory Management in the Naan Mudhalvan project is to ensure the efficient handling of medicines, medical equipment, and supplies within hospitals, clinics, or medical shops.
- The purpose is to streamline inventory processes, save costs, improve efficiency, and ensure timely availability of medical supplies.

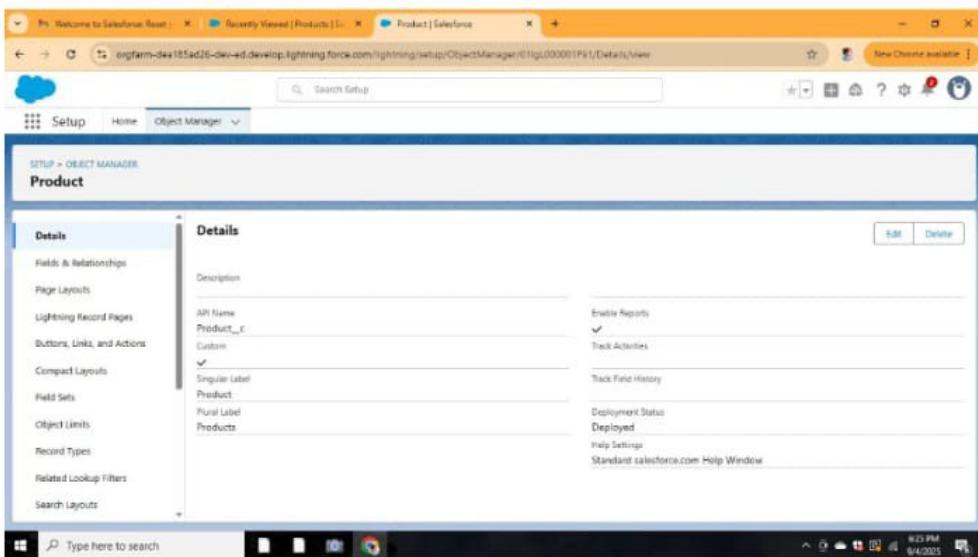
### DEVELOPMENT PHASE

#### Creating Developer Account:

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



- **Created Objects: Product, Purchase Order, Order Item, Inventory Transaction, Supplier.**



Welcome to Salesforce Reset | Recently Viewed | Products | Purchase Order | Salesforce

Setup Home Object Manager

SETUP > OBJECT MANAGER  
**Purchase Order**

**Details**

Description

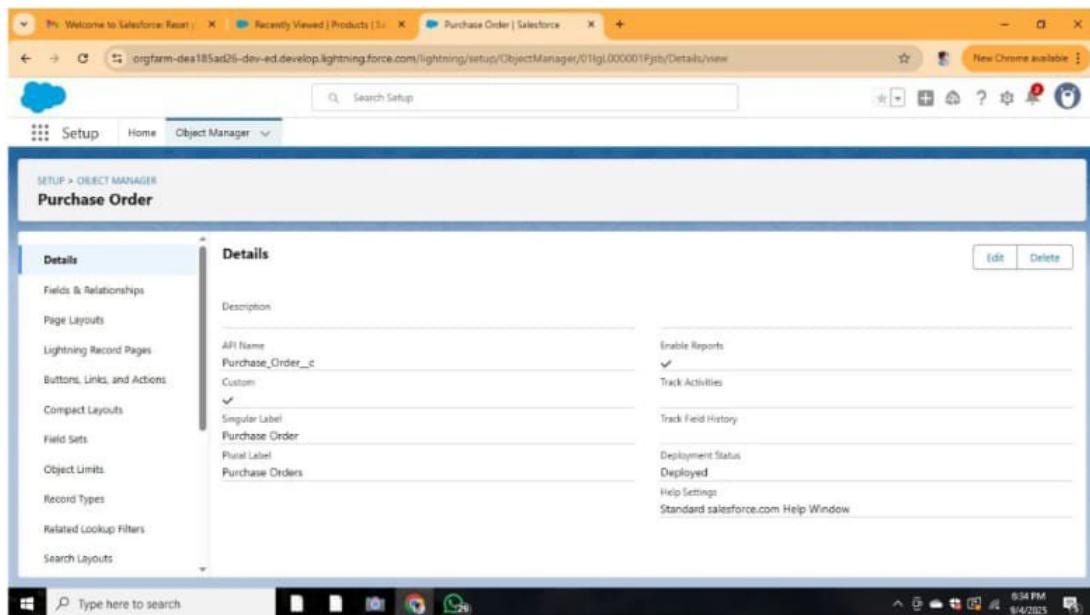
API Name: Purchase\_Order\_c  
Custom: ✓  
Singular Label: Purchase Order  
Plural Label: Purchase Orders

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

Type here to search

8:34 PM 8/4/2025



Welcome to Salesforce Reset | Recently Viewed | Products | Order Item | Salesforce

Setup Home Object Manager

SETUP > OBJECT MANAGER  
**Order Item**

**Details**

Description

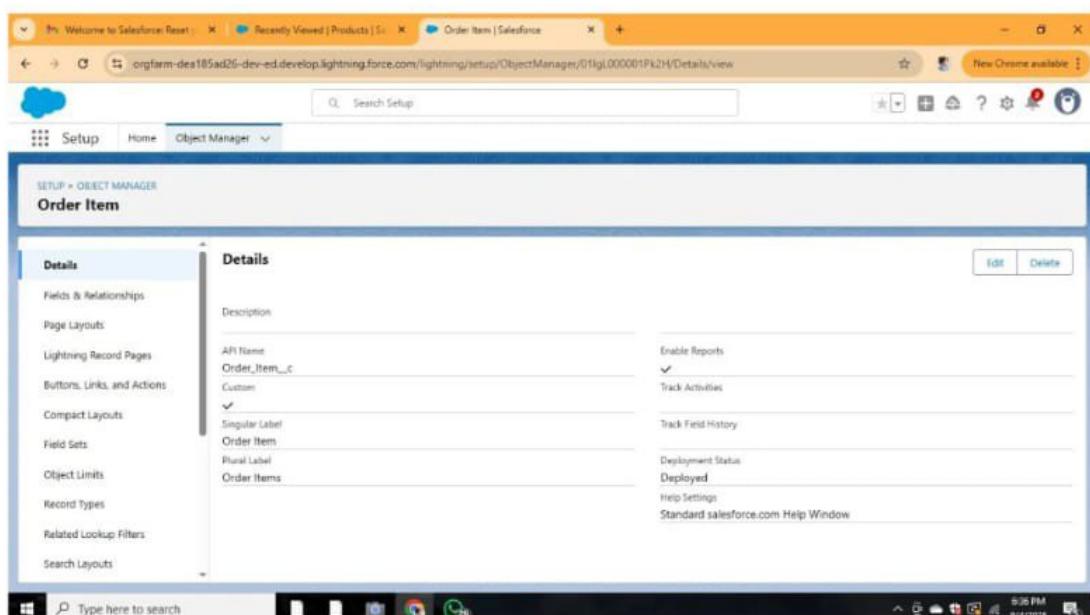
API Name: Order\_Item\_c  
Custom: ✓  
Singular Label: Order Item  
Plural Label: Order Items

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  
Compact Layouts  
Field Sets  
Object Limits  
Record Types  
Related Lookup Filters  
Search Layouts

Type here to search

8:36 PM 8/4/2025



Welcome to Salesforce Reset | Recently Viewed | Products | Inventory Transaction | Salesforce

Setup Home Object Manager

SETUP > OBJECT MANAGER  
**Inventory Transaction**

**Details**

Description

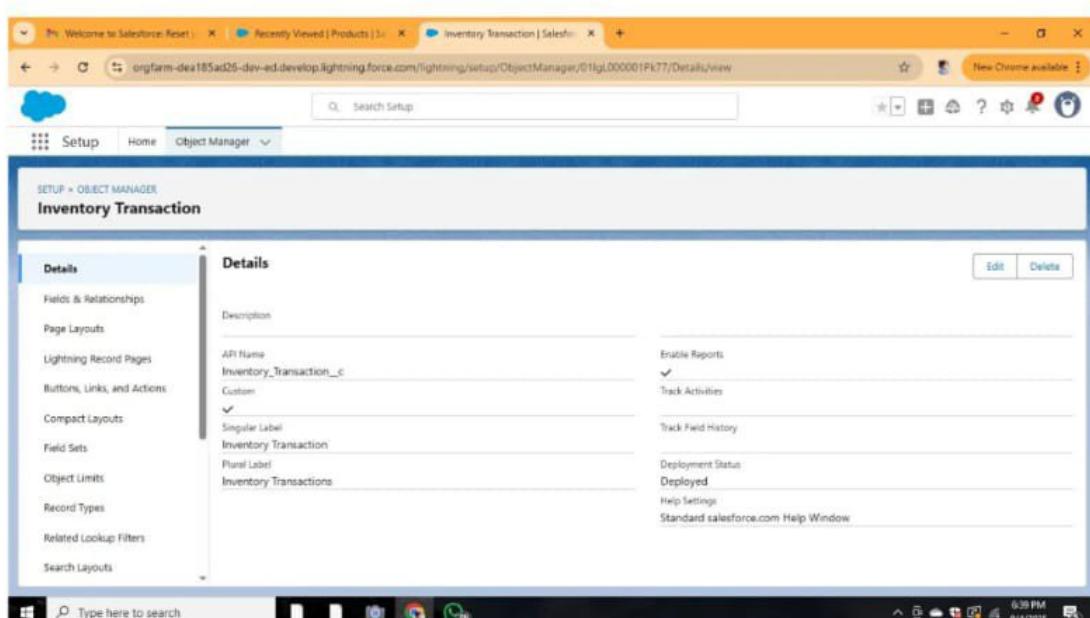
API Name: Inventory\_Transaction\_c  
Custom: ✓  
Singular Label: Inventory Transaction  
Plural Label: Inventory Transactions

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

Type here to search

8:39 PM 8/4/2025



The screenshot shows the Salesforce Object Manager interface for the 'Supplier' object. The left sidebar lists various configuration options: Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, and Search Layouts. The main panel is titled 'Details' and contains fields for Description, API Name (Supplier\_\_c), Custom (✓), Singular Label (Supplier), Plural Label (Suppliers), Enable Reports (✓), Track Activities, Track Field History, Deployment Status (Deployed), Help Setting (Standard salesforce.com Help Window), and a 'Type here to search' bar at the bottom.

- Configured fields and relationships

The screenshot shows the Salesforce Object Manager interface for the 'Product' object. The left sidebar lists configuration options: Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, and Search Layouts. The main panel is titled 'Fields & Relationships' and displays a table of 11 items, sorted by Field Label. The table columns are FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. The data includes:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Current Stock Level	Current_Stock_Level__c	Number(18, 0)		
Expiry Date	Expiry_Date__c	Date		
Last Modified By	LastModifiedById	Lookup(User)		
Minimum Stock Level	Minimum_Stock_Level__c	Number(18, 0)		
Order Date	Order_Date__c	Date		
Owner	OwnerId	Lookup(User,Group)		
Product Description	Product_Description__c	Text Area(255)		

Welcome to Salesforce: Reset | Recently Viewed | Products | Purchase Order | Salesforce

orgfarm-deal85ad26-dev-ed.lightning.force.com/lightning/setup/ObjectManager/01lgL000001Pjzb/FieldsAndRelationships/view

Setup Home Object Manager

Search Setup

SETUP > OBJECT MANAGER  
Purchase Order

Details Fields & Relationships

Fields & Relationships 10 Items, Sorted by Field Label

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Actual Delivery Date	Actual_Delivery_Date_c	Date		
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		
Owner	OwnerId	Lookup(User/Group)		
Purchase Order ID	Name	Text(50)		

Type here to search

Welcome to Salesforce: Reset | Recently Viewed | Products | Order Item | Salesforce

orgfarm-deal85ad26-dev-ed.lightning.force.com/lightning/setup/ObjectManager/01lgL000001Pk2H/FieldsAndRelationships/view

Setup Home Object Manager

Search Setup

SETUP > OBJECT MANAGER  
Order Item

Details Fields & Relationships

Fields & Relationships 11 Items, Sorted by Field Label

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 Item ID	Order_Item_ID__c	Text(18)		
Product details ID	Product_details_ID_del_c	Text(18)		
Product ID	Product_ID__c	Lookup(Product)		
Purchase Order ID	Purchase_Order_ID__c	Master-Detail(Purchase Order)		

Type here to search

Welcome to Salesforce: Reset | Recently Viewed | Products | Inventory Transaction | Salesforce | +

orgfarm-dea185ad26-dev-ed.lightning.force.com/lightning/setup/ObjectManager/01lgL000001Pk77/FieldsAndRelationships/view

Setup Home Object Manager

SETUP > OBJECT MANAGER  
**Inventory Transaction**

Details Fields & Relationships

Fields & Relationships 9 Items, Sorted by Field Label

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Inventory Transaction Name	Name	Text(80)		✓
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓
Purchase Order ID	Purchase_Order__D__c	Lookup(Purchase Order)		✓
Total Order Cost	Total_Order_Cost__c	Formula (Currency)		
Transaction Date	Transaction_Date__c	Date		
Transaction ID	Transaction_ID__c	Text(18)		

Type here to search 7:26 PM 9/4/2025

Welcome to Salesforce: Reset | Recently Viewed | Products | Supplier | Salesforce | +

orgfarm-dea185ad26-dev-ed.lightning.force.com/lightning/setup/ObjectManager/01lgL000001Pk8u/FieldsAndRelationships/view

Setup Home Object Manager

SETUP > OBJECT MANAGER  
**Supplier**

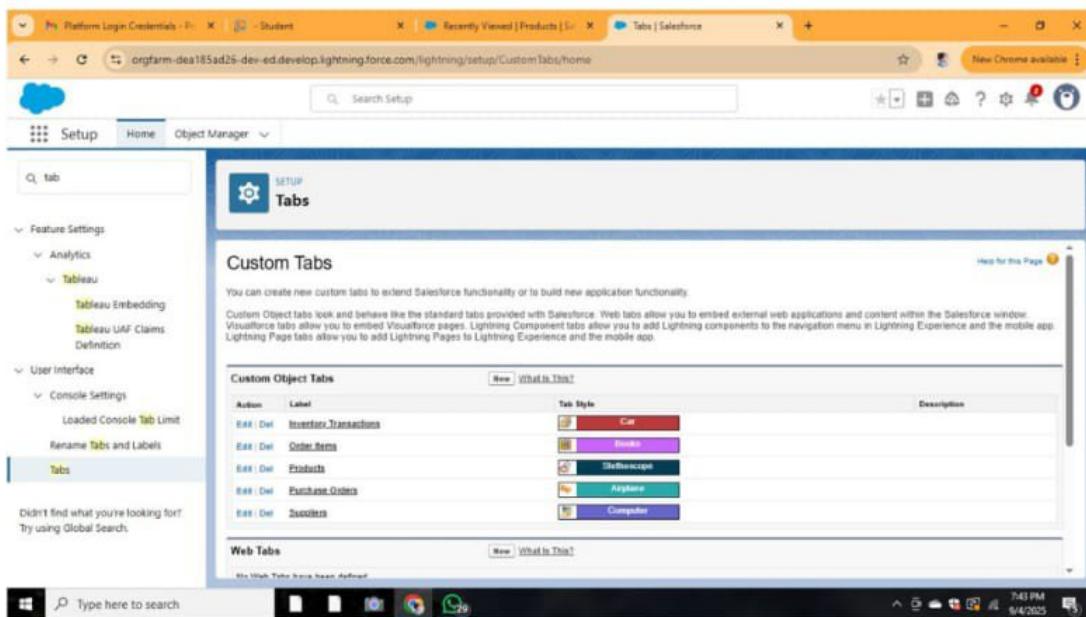
Details Fields & Relationships

Fields & Relationships 9 Items, Sorted by Field Label

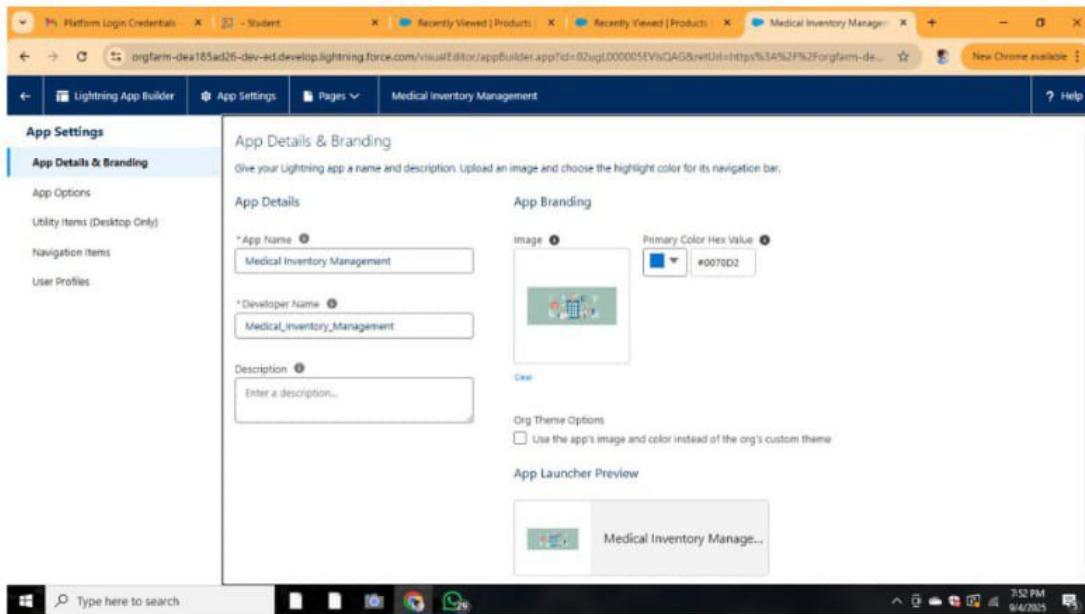
FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Text Area(255)		
Contact Person	Contact_Person__c	Text(18)		
Created By	CreatedById	Lookup(User)		
Email	Email__c	Email		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		
Phone Number	Phone_Number__c	Phone		
Supplier ID	Supplier_ID__c	Text(18)		

Type here to search 7:27 PM 9/4/2025

- **Creating Tabs for the objects :Product object, Purchase order, Order item, Inventory Transaction, Supplier.**



- **Developed Lightning App with relevant tabs:**



The screenshot shows the Lightning App Builder interface for configuring navigation items. The left sidebar has 'App Settings' selected, and 'Navigation Items' is the active tab under 'Navigation Items'. The main area is titled 'Navigation Items' with a sub-instruction: '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.' Below this is a 'Available Items' list containing various Salesforce objects like Accounts, Activation Targets, Activations, All Sites, Alternative Payment Methods, Analytics, App Launcher, and Appointment Categories. To the right is a 'Selected Items' list containing Products, Purchase Orders, Order Items, Inventory Transactions, Suppliers, Reports, and Dashboards. Navigation arrows between the lists allow items to be moved. The top navigation bar shows tabs for 'Recently Viewed | Products', 'Recently Viewed | Products', and 'Medical Inventory Management'. The bottom taskbar includes a search bar, pinned apps, and system status.

The screenshot shows the Lightning App Builder interface for configuring user profiles. The left sidebar has 'App Settings' selected, and 'User Profiles' is the active tab under 'Navigation Items'. The main area is titled 'User Profiles' with a sub-instruction: 'Choose the user profiles that can access this app.' Below this is a 'Available Profiles' list containing Analytics Cloud Integration User, Analytics Cloud Security User, Anypoint Integration, Authenticated Website, Authenticated Website, B2B Reordering Portal Buyer Profile, Contract Manager, Custom Marketing Profile, and Custom Sales Profile. To the right is a 'Selected Profiles' list containing System Administrator, Inventory Manager, and Purchase Manager. Navigation arrows between the lists allow profiles to be moved. The top navigation bar shows tabs for 'Recently Viewed | Products', 'Recently Viewed | Products', and 'Medical Inventory Management'. The bottom taskbar includes a search bar, pinned apps, and system status.

- **Creating Fields and formula for every objects: Product, Purchase order, Order item,Inventory Transaction and Supplier**

- **Product**

The screenshot shows the Salesforce Object Manager interface for the 'Product' object. On the left, a sidebar lists various setup options like Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, etc. The main content area displays the 'Custom Field Definition Detail' for the 'Product Name' field. The field label is 'Product Name', field name is 'Product\_Name', API name is 'Product\_Name\_\_c', and data type is 'Text'. The field is marked as 'Required'. The 'General Options' section also indicates it is 'Unique'. The top right of the page has buttons for 'Edit', 'Set Field Level Security', 'View Field Accessibility', and 'Where is this used?'. A note at the top says 'Validation Rules'. The bottom right shows the last modified date and time: 'Modified By: Komataashu U 8/30/2025, 2:49 AM'.

This screenshot is identical to the one above, showing the 'Product' custom field 'Product Name' configuration in the Salesforce Object Manager. It displays the same field details, validation rules, and modification history.

The screenshot shows the Salesforce Setup interface. The top navigation bar includes tabs for Platform Login Credentials, Student, Recently Viewed | Products, App Manager | Salesforce, and Product | Salesforce. The main title is "SETUP > OBJECT MANAGER". Below it, the specific object is "Product". On the left sidebar, under "Fields & Relationships", the "Fields & Relationships" tab is selected. The main content area displays the "Custom Field Definition Detail" for a field named "Current Stock Level". The field information includes:

Field Label	Current Stock Level	Object Name	Product
Field Name	Current_Stock_Level	Data Type	Number
API Name	Current_Stock_Level__c		
Description			
Help Text			
Date Owner			
Field Usage			
Data Sensitivity Level			
Compliance Categorization			
Created By	Kamalakarulu.U. 8/12/2025, 4:26 AM	Modified By	Kamalakarulu.U. 8/12/2025, 4:28 AM

Below this, there is a "General Options" section with checkboxes for "Required" and "Unique". The status bar at the bottom shows "8:12 PM 9/4/2025".

This screenshot is identical to the one above, showing the creation of a custom field "Unit Price" on the Product object. The field definition detail page shows the following information:

Field Label	Unit Price	Object Name	Product
Field Name	Unit_Price	Data Type	Currency
API Name	Unit_Price__c		
Description			
Help Text			
Date Owner			
Field Usage			
Data Sensitivity Level			
Compliance Categorization			
Created By	Kamalakarulu.U. 8/12/2025, 4:29 AM	Modified By	Kamalakarulu.U. 8/12/2025, 4:29 AM

The status bar at the bottom shows "8:14 PM 9/4/2025".

- **Purchase order**

The screenshot shows the Salesforce Setup interface under the Object Manager section for the Purchase Order object. A new custom field, 'Supplier ID', is being created. The field is defined as a lookup type, pointing to the 'Supplier' object. It has a field label of 'Supplier ID' and an API name of 'Supplier\_ID\_\_c'. The field is marked as required. The 'Field & Relationships' tab is selected. The right pane displays the 'Custom Field Definition Detail' for 'Supplier ID', including its field information, object name ('Purchase Order'), and data type ('Lookup'). The 'Related To' field is set to 'Supplier'.

The screenshot shows the Salesforce Setup interface under the Object Manager section for the Purchase Order object. A new custom field, 'Order Date', is being created. The field is defined as a date type, pointing to the 'Purchase Order' object. It has a field label of 'Order Date' and an API name of 'Order\_Date\_\_c'. The field is marked as required. The 'Field & Relationships' tab is selected. The right pane displays the 'Custom Field Definition Detail' for 'Order Date', including its field information, object name ('Purchase Order'), and data type ('Date'). The 'General Options' section shows 'Required' checked.

The screenshot shows the Salesforce Object Manager interface for the Purchase Order object. On the left, a sidebar lists various setup options like Details, Fields & Relationships, Page Layouts, and Lightning Record Pages. The main content area displays the 'Purchase Order Custom Field' named 'Order Count'. The 'Custom Field Definition Detail' section shows the following details:

Field Label	Order Count	Object Name	Purchase Order
Field Name	Order_Count	Data Type	Currency
API Name	Order_Count_c	Length	10
Description		Format	\$#,##0.00
Help Text		Decimals	2
Data Owner		Label	Order Count
Field Usage		Validation Rule	
Data Sensitivity Level		Validation Error Message	
Compliance Configuration		Validation Script	
Created By	Komalavalli_U	Created Date	8/30/2025, 3:28 AM
Modified By	Komalavalli_U	Modified Date	8/30/2025, 3:28 AM

Below this, the 'Roll-Up Summary Options' section shows 'Data Type' as 'Roll-Up Summary' and 'Summarised Object' as 'Order Item'. The 'Summary Type' is set to 'COUNT'.

- **Order item**

The screenshot shows the Salesforce Object Manager interface for the Order Item object. The sidebar and main content area are similar to the previous screenshot, displaying the 'Order Item Custom Field' named 'Unit Price'. The 'Custom Field Definition Detail' section shows the following details:

Field Label	Unit Price	Object Name	Order Item
Field Name	Unit_Price	Data Type	Currency
API Name	Unit_Price_c	Length	10
Description		Format	\$#,##0.00
Help Text		Decimals	2
Data Owner		Label	Unit Price
Field Usage		Validation Rule	
Data Sensitivity Level		Validation Error Message	
Compliance Configuration		Validation Script	
Created By	Komalavalli_U	Created Date	8/30/2025, 3:32 AM
Modified By	Komalavalli_U	Modified Date	8/30/2025, 3:32 AM

Below this, the 'General Options' section shows 'Required' checked and 'Default Value' as '0'.

The screenshot shows the Salesforce Object Manager interface. The top navigation bar includes tabs for 'Recently Viewed | Products', 'App Manager | Salesforce', and 'Order Item | Salesforce'. The main page title is 'SETUP > OBJECT MANAGER Order Item'. On the left, a sidebar lists options like 'Details', 'Fields & Relationships', 'Page Layouts', 'Lightning Record Pages', 'Buttons, Links, and Actions', 'Compact Layouts', 'Field Sets', 'Object Limits', 'Record Types', 'Related Lookup Filters', and 'Search Layouts'. The central content area displays the 'Order Item Custom Field Amount' details. It shows the field label 'Amount', field name 'Amount', and API name 'Amount\_\_c'. The 'Custom Field Definition Detail' section includes fields for 'Object Name' (set to 'Order Item') and 'Data Type' (set to 'Formula'). A note indicates 'Formula Options' with 'Decimal Places' set to 2. The bottom of the screen shows a Windows taskbar with icons for File Explorer, Task View, Edge, Google Chrome, and a Microsoft Teams icon.

- **Inventory Transaction**

This screenshot shows the 'Inventory Transaction' custom field configuration in the Salesforce Object Manager. The top navigation bar and sidebar are identical to the previous screenshot. The main content area displays the 'Inventory Transaction Custom Field Transaction Type' details. It shows the field label 'Transaction Type', field name 'Transaction\_Type', and API name 'Transaction\_Type\_\_c'. The 'Custom Field Definition Detail' section includes fields for 'Object Name' (set to 'Inventory Transaction') and 'Data Type' (set to 'Picklist'). A note indicates 'General Options' with 'Required' checked and 'Default Value' set to an empty string. The bottom of the screen shows a Windows taskbar with icons for File Explorer, Task View, Edge, Google Chrome, and a Microsoft Teams icon.

The screenshot shows the Salesforce Object Manager interface. The top navigation bar includes tabs for 'Platform Login Credentials', 'Student', 'Recently Viewed | Products', 'App Manager | Salesforce', and 'Inventory Transaction | Sales'. The main title is 'SETUP > OBJECT MANAGER Inventory Transaction'. On the left, a sidebar lists 'Fields & Relationships' and various layout options like 'Page Layouts', 'Lightning Record Pages', and 'Search Layouts'. The central panel displays the 'Custom Field Definition Detail' for the 'Total Order Cost' field. Key details shown include:

Field Label	Field Name	Object Name
Total Order Cost	Total_Order_Cost	Inventory Transaction
	API Name	Total_Order_Cost_c
Description		
Help Text		
Data Owner		
Field Usage		
Data Sensitivity Level		
Compliance Categorization	Created By	Kumaresan_U_ 8/30/2025, 3:08 AM
	Modified By	Kumaresan_U_ 8/30/2025, 3:08 AM
Formula Options	Data Type	Formula
	Decimal Places	2

The status bar at the bottom indicates the time as 8:36 PM on 8/4/2025.

- **Supplier**

The screenshot shows the Salesforce Object Manager interface. The top navigation bar includes tabs for 'Platform Login Credentials', 'Student', 'Recently Viewed | Products', 'App Manager | Salesforce', and 'Supplier | Salesforce'. The main title is 'SETUP > OBJECT MANAGER Supplier'. On the left, a sidebar lists 'Fields & Relationships' and various layout options like 'Page Layouts', 'Lightning Record Pages', and 'Search Layouts'. The central panel displays the 'Custom Field Definition Detail' for the 'Phone Number' field. Key details shown include:

Field Label	Field Name	Object Name
Phone Number	Phone_Number	Supplier
	API Name	Phone_Number__c
Description		
Help Text		
Data Owner		
Field Usage		
Data Sensitivity Level		
Compliance Categorization	Created By	Kumaresan_U_ 8/13/2025, 12:03 AM
	Modified By	Kumaresan_U_ 8/13/2025, 12:03 AM
General Options	Required	<input checked="" type="checkbox"/>
	Default Value	

The status bar at the bottom indicates the time as 8:38 PM on 8/4/2025.

Platform Login Credentials - X | Recently Viewed | Products - X | App Manager | Salesforce - X | Supplier | Salesforce - X | + | - | X | New Chrome available! |

orgfarm-dea185ad26-dev-ed.lightning.force.com/lightning/setup/ObjectManager/01lgL000001PkdS/FieldsAndRelationships/00NgL00001Qjnkr... | Search Setup | ☰ | ☰ | ? | 🌐 | 🔒 | 🔍

Setup Home Object Manager ▾

SETUP > OBJECT MANAGER  
**Supplier**

Supplier Custom Field  
**Email**  
Back to Supplier

Custom Field Definition Detail

Validation Rules

Field Information

Field Label	Email	Object Name	Supplier
Field Name	Email	Data Type	Email
API Name	Email__c		
Description			
Help Text			
Data Owner			
Field Usage			
Data Sensitivity Level			
Compliance Categorization			
Created By	Kumaravelu.U   8/9/2025, 3:42 AM	Modified By	Kumaravelu.U   8/9/2025, 3:42 AM
General Options	Required		
	Unique		

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

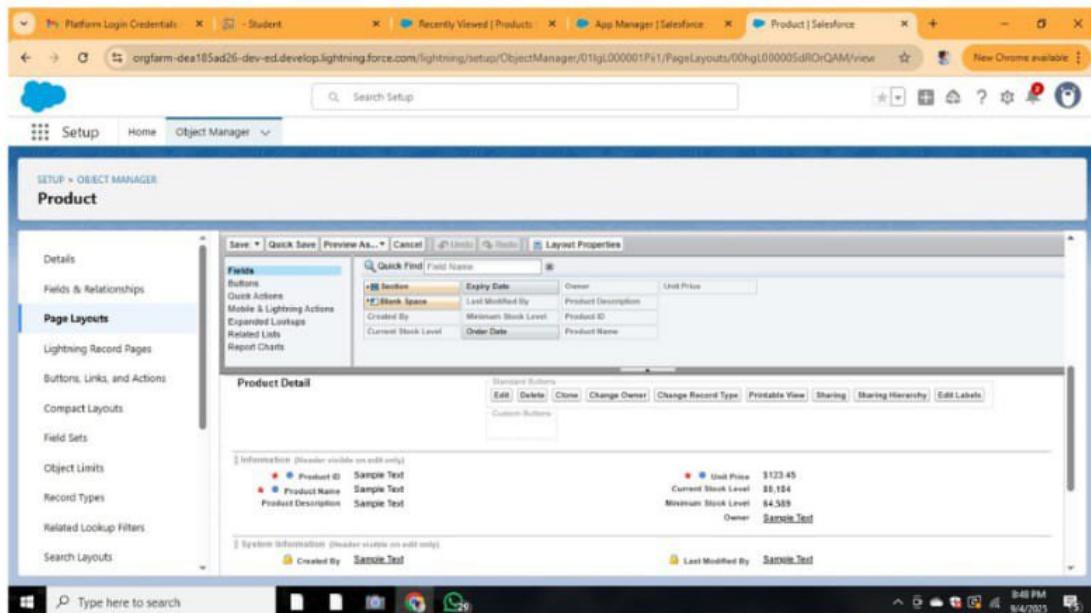
Search Layouts

Type here to search

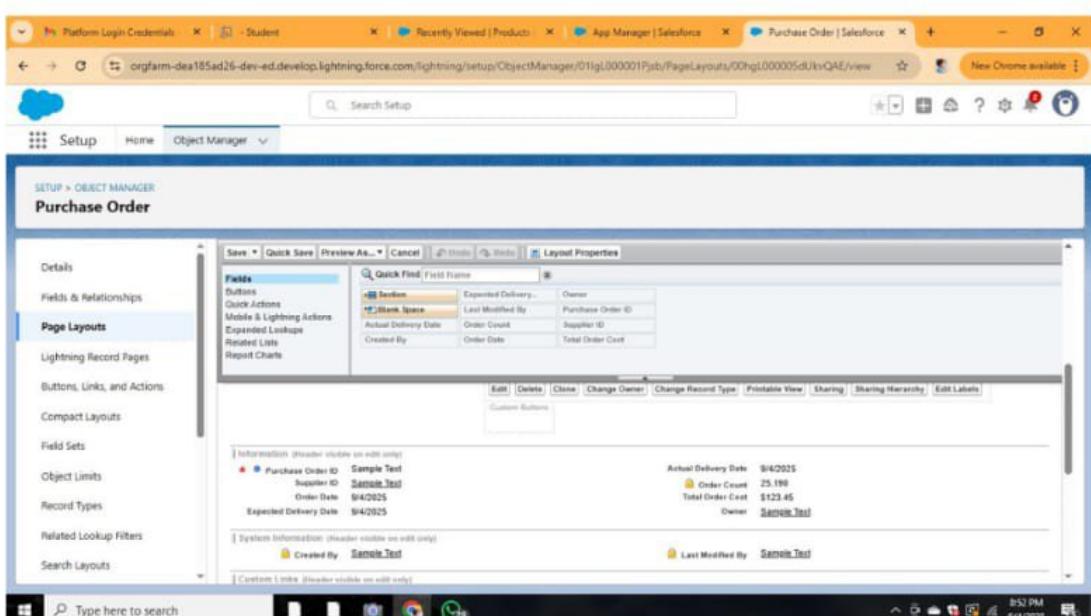
8:40 PM 8/9/2025

- Editing of Page Layouts

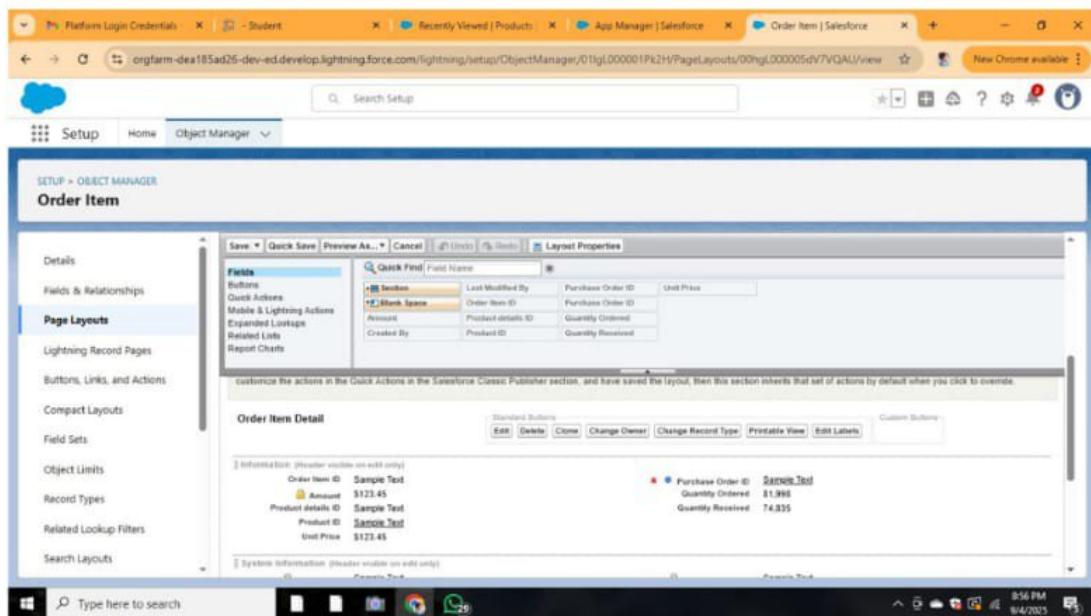
- Product



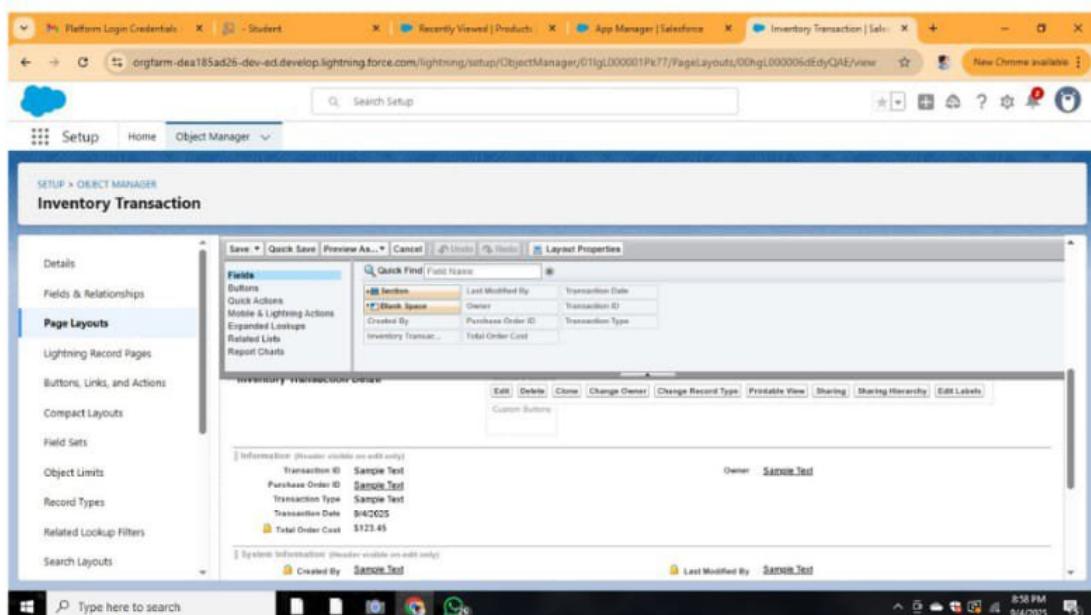
- Purchase order



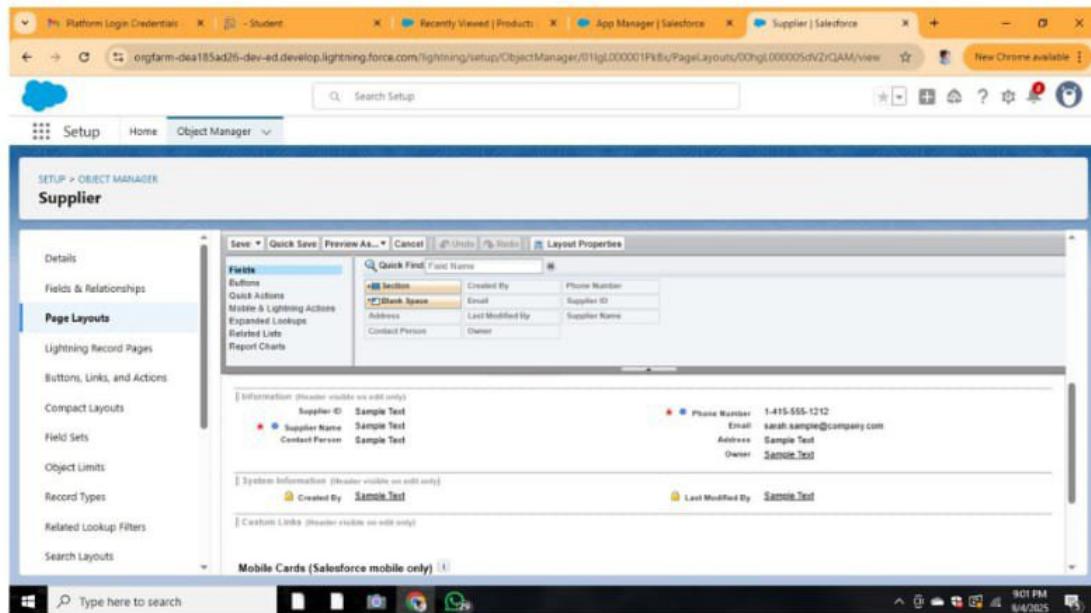
- Order item



- Inventory Transaction

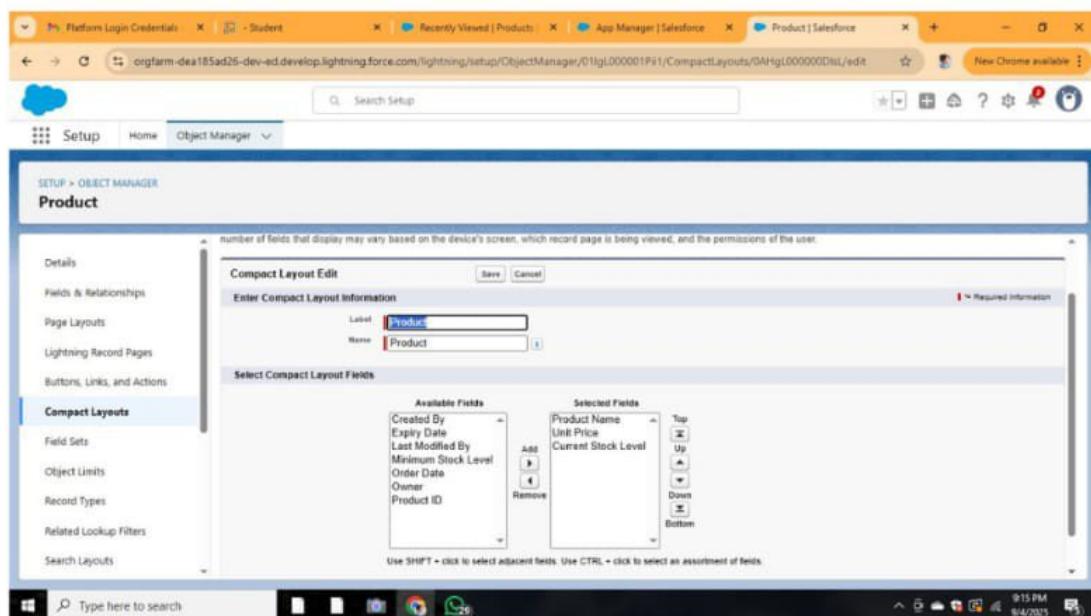
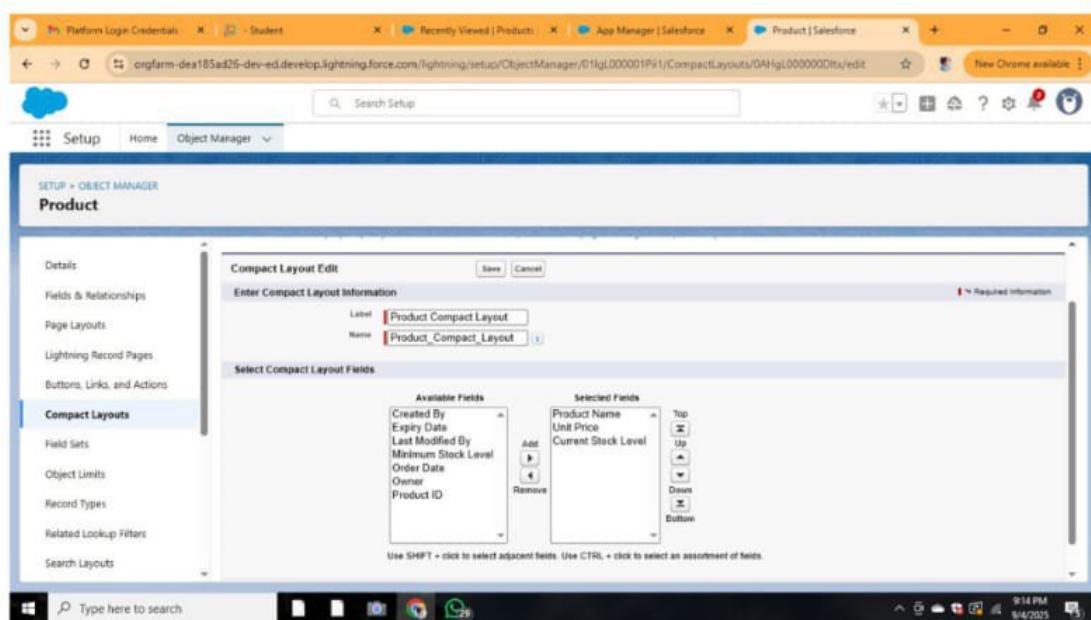


- **Supplier**

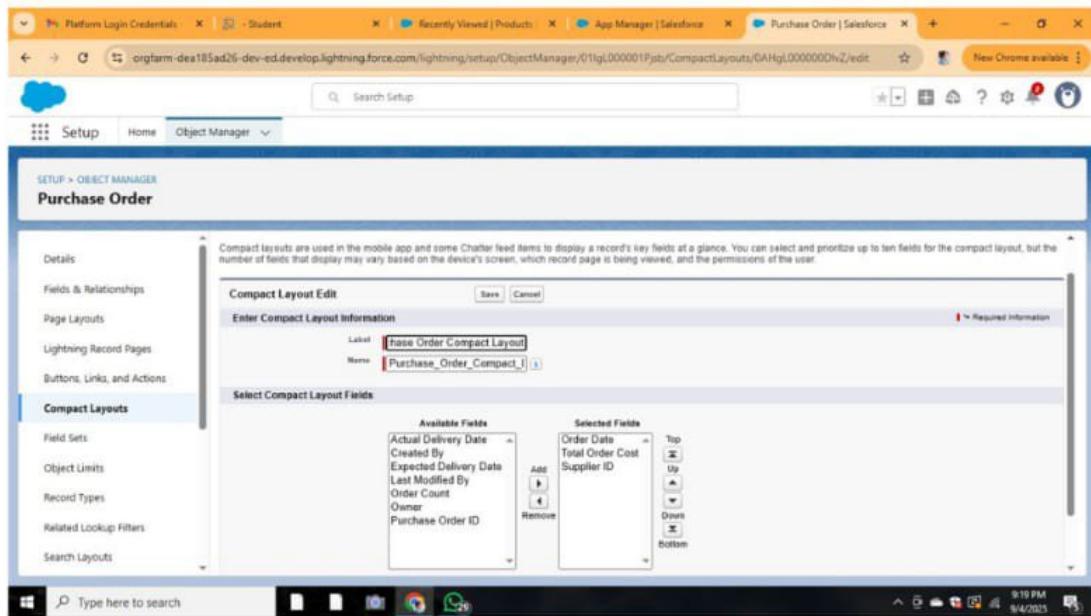


- **Compact Layouts for Product object and Purchase order Object.**

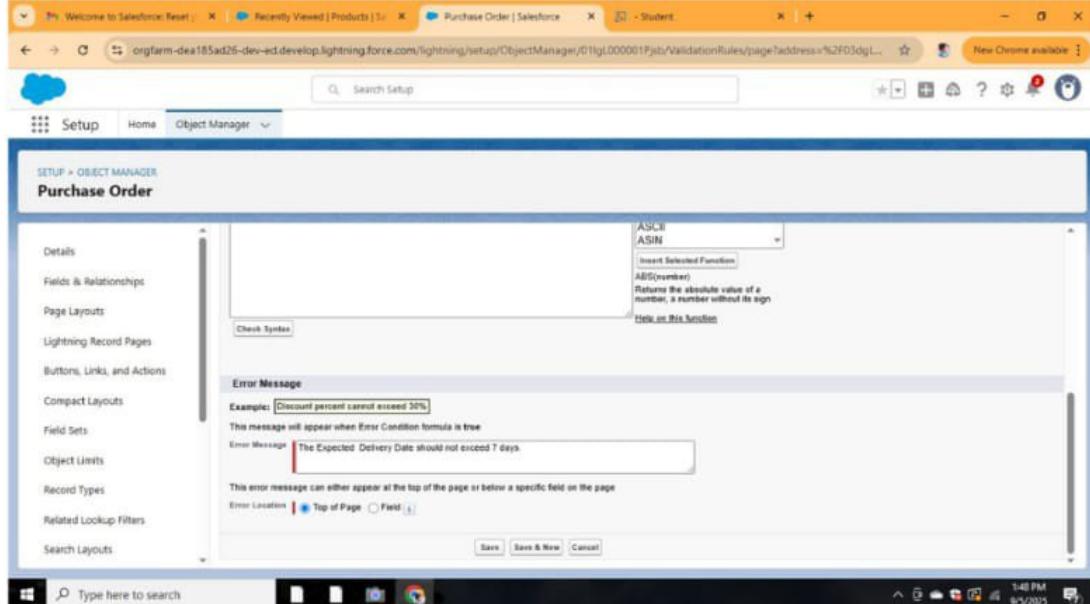
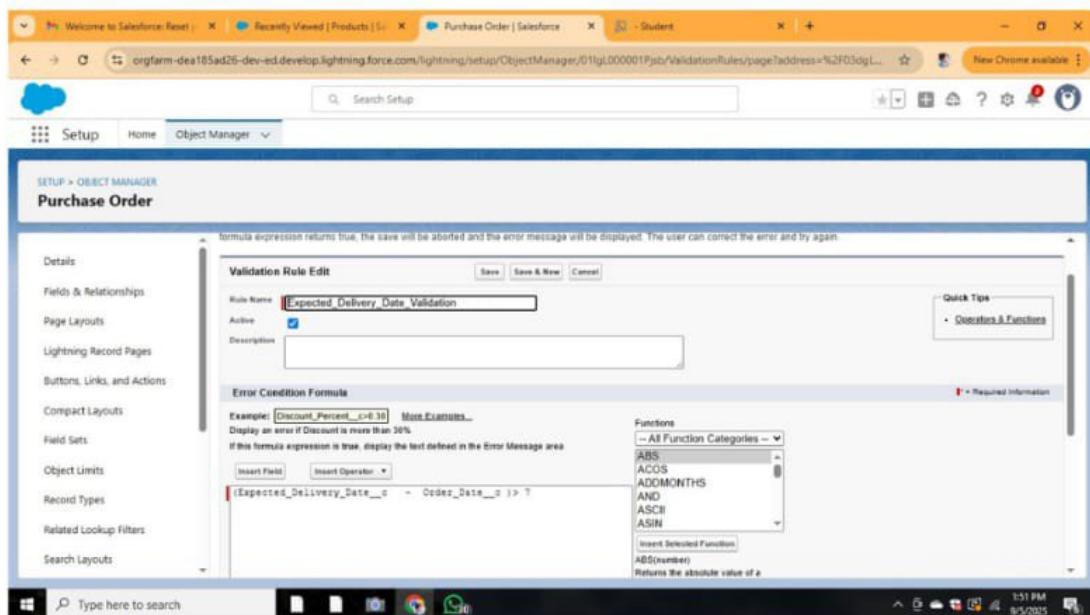
- **Product**



- **Purchase order**



- **Validation Rules: To create an Expected Delivery Date Validation Rule To a Employee Object.**



- **Profiles:**

- To create an Inventory Manager Profile:

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

- Page Header:** Welcome to Salesforce! Reset | Recently Viewed | Products | Profiles | Profiles | Salesforce | Student
- Search Bar:** Search Setup
- Left Navigation:**
  - 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
- Profile Detail:**
  - Name:** Inventory Manager
  - User License:** Salesforce
  - Description:** Created by Komalatesh U. on 8/30/2025, 6:35 AM
  - Modified By:** Komalatesh U. on 8/30/2025, 6:34 AM
  - Custom Profile:**
- Page Layouts:**

Standard Object Layouts	Global	Location Group Assignment
Email Application	Global Layout [View Assessment]	Location Group Assignment Layout [View Assessment]
	Mobile Layout [View Assessment]	Mobile Layout [View Assessment]

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

- Page Header:** Welcome to Salesforce! Reset | Recently Viewed | Products | Profiles | Profiles | Salesforce | Student
- Search Bar:** Search Setup
- Left Navigation:** Same as the previous screenshot.
- Content Area:**
  - Data Share Synchronizer Connections:** Work Plan Templates, Work Step Templates, Work Types, Work Type Groups
  - Data Share Syncable Connections:** Work Plan Templates, Work Step Templates, Work Types, Work Type Groups
  - Data Share Targets:** Work Plan Templates, Work Step Templates, Work Types, Work Type Groups
  - Data Share Target Connection:** Work Plan Templates, Work Step Templates, Work Types, Work Type Groups
  - Custom Object Permissions:**

Object	Read						Create						Edit						Delete						View All Records						Modify All Records						View All Fields					
	Inventory Transactions	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓										
Order Items	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓												
Products	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓												
Product_Details	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓												
  - Session Settings:** Session Times Out After: 2 hours of inactivity; Session Security Level Required at Login: None

Welcome to Salesforce. Reset | Recently Viewed | Products | Profiles | Salesforce - Student

Search Setup

Setup Home Object Manager

Q pro

SETUP Profiles

Hyperforce Assistant

Users Profiles

Data Mass Transfer Approval Requests

Feature Settings Approval Settings

Data.com Prospector Preferences Prospector Users

Functions

Marketing Lead Processes

Sales Sales

App Launcher (standard\_AppLauncher)

Approvals (standard\_Approvals)

Automation (standard\_FlowsApp)

Bulk Schedule (standard\_LightningBULK)

Community (standard\_Community)

Content (standard\_Content)

Data Cloud (standard\_Audience360)

Data Manager (standard\_DataManager)

Digital Experience (standard\_SalesforceCMI)

Lightning Usage App (standard\_LightningUsageApp)

Marketing CRM Classic (standard\_Marketing)

Medical Inventory Management (Medical\_Inventory\_Management)

(standard\_\_QueueManagement)

Sales (standard\_\_Lightning Sales)

Sales (standard\_\_Sales)

Sales Cloud Mobile (standard\_\_SalesCloudMobile)

Sales Console (standard\_\_LightningConsole)

Salesforce Chatter (standard\_Chatter)

Salesforce Schedulable Setup (standard\_\_LightningScheduler)

Sample Accounts (standard\_SampleAccounts)

Service (standard\_Service)

Service Console (standard\_\_LightningService)

Site.com (standard\_\_Sites)

Subscription Management (standard\_RevenueCloudConsole)

WDIC (standard\_\_Work)

Service Provider Access

Tab Settings

Type here to search

2:21 PM 9/5/2025

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Search Setup

Setup Home Object Manager

Q pro

SETUP Profiles

Hyperforce Assistant

Users Profiles

Data Mass Transfer Approval Requests

Feature Settings Approval Settings

Data.com Prospector Preferences Prospector Users

Functions

Marketing Lead Processes

Sales Sales

Session Times Out After: 2 hours of inactivity

Session Security Level Required at Login

Password Policies

User passwords expire in: Never expires

Enforce password history: 3 passwords remembered

Minimum password length: 8

Password complexity requirement:

- Must include alpha and numeric characters
- Cannot contain password

Maximum invalid login attempts: 10

Lockout effective period: 15 minutes

Obfuscate secret answer for password resets:

Require a minimum 1 day password lifetime:

Don't immediately expire user if forgot password email:

Edit  Clone  Delete  View Users

Login Hours

No login hours specified

2:07 PM 9/5/2025

- To create an Purchase Manager Profile:

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

- Profile Detail:**
  - Name: Purchase Manager
  - User License: Salesforce
  - Description:
  - Created By: Komalayali, U. (03/09/2025, 8:48 AM)
  - Modified By: Komalayali, U. (03/12/2025, 9:54 AM)
- Page Layouts:**
  - Standard Object Layouts: Global Layout [Edit Assessment]
  - Email Application: Not Assigned [View Assessment]
  - Macro: Macro [View Assessment]

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

- Custom Object Permissions:**

Object	Salesforce Standard Object					Custom Object								
	Read	Create	Edit	Delete	View All Records	Modify All Records	View All Fields	Read	Create	Edit	Delete	View All Records	Modify All Records	View All Fields
Inventory Transactions	✓				✓			✓				✓		
Order Items	✓				✓			✓				✓		
Products	✓				✓			✓				✓		
Product_Details	✓				✓			✓				✓		
Purchase Orders	✓				✓			✓				✓		
Suppliers	✓				✓			✓				✓		
Unit Prices	✓				✓			✓				✓		
- Session Settings:**
  - Session Times Out After: 2 hours of inactivity
  - Session Security Level Required at Login:
- Password Policies:**
  - User passwords expire in: Never expires
  - Enforce password history: 3 passwords remembered
  - Minimum password length: 8
  - Password complexity requirement: Must include alpha and numeric characters

Welcome to Salesforce: Reset | Recently Viewed | Products | Sales | Profiles | Salesforce | Student | + | - | X

orgfarm-dea185ad26-dev-ed.develop.lightning.force.com/lightning/setup/EnhancedProfiles/page?address=%2F00e0gL000004FIVN

Search Setup

Setup Home Object Manager

Q pro

SETUP Profiles

Hyperforce Assistant

Users Profiles

Data Mass Transfer Approval Requests

Feature Settings Approval Settings

Data.com Prospector Preferences Prospector Users

Functions

Marketing Lead Processes

Sales Sales

App Launcher (standard\_AppLauncher)

Approvals (standard\_Approvals)

Automation (standard\_FlowsApp)

Bulk Database (standard\_LightningBolt)

Community (standard\_Community)

Content (standard\_Content)

Data Cloud (standard\_Audience300)

Data Manager (standard\_DataManager)

Digital Experience (standard\_SalesforceCMS)

Lightning Usage App (standard\_LightningInstrumentation)

Marketing for Cloud (standard\_Marketing)

Medical Inventory Management (Medical\_Inventory\_Management)

(standard\_GeneralManagement)

Sales (standard\_Lightning\_Sales)

Sales (standard\_Sales)

Sales Cloud Mobile (standard\_SalesCloudMobile)

Sales Console (standard\_LightningSalesConsole)

Salesforce Chatter (standard\_Chatter)

Salesforce Scheduler Setup (standard\_LightningScheduler)

Sample Console (standard\_ServiceConsole)

Service (standard\_Service)

Service Console (standard\_LightningService)

Site.com (standard\_Sales)

Subscription Management (standard\_PremierCloudConsole)

WDC (standard\_Work)

Service Provider Access

Type here to search

2:25 PM 9/5/2023

Welcome to Salesforce: Reset | Recently Viewed | Products | Sales | Profiles | Salesforce | Student | + | - | X

orgfarm-dea185ad26-dev-ed.develop.lightning.force.com/lightning/setup/EnhancedProfiles/page?address=%2F00e0gL000004FIVN

Search Setup

Setup Home Object Manager

Q pro

SETUP Profiles

Hyperforce Assistant

Users Profiles

Data Mass Transfer Approval Requests

Feature Settings Approval Settings

Data.com Prospector Preferences Prospector Users

Functions

Marketing Lead Processes

Sales Sales

Session Settings

Session Times Out After: 2 hours of inactivity

Session Security Level Required at: Login

Password Policies

User passwords expire in: Never expires

Enforce password history: 2 passwords remembered

Minimum password length: 8

Password complexity requirement: Must include alpha and numeric characters

Password question requirement: Cannot contain password

Maximum invalid login attempts: 10

Locked offsite period: 15 minutes

Disallow recent answers for password resets:

Require a minimum 1 day password lifetime:

Don't immediately expire links to forgot password emails:

Edit | Clone | Delete | View Users

Login Hours

2:16 PM 9/5/2023

Type here to search

# • **Roles:**

- **Adding roles to SVP,Sales and Marketing as Inventory Manager:**

The screenshot shows the Salesforce Setup Roles page. The left sidebar is titled 'Users' and has a 'Roles' section selected. The main area displays a hierarchical list of roles under 'SVP'. The visible roles include:

- SVP
- Customer Service & Student
- Customer Support, International
- Customer Support, North America
- Installation & Repair Services
- Human Resources
- Sales & Marketing
- Inventory Manager
- Purchasing Manager
- VP, International Sales
- VP, Marketing
- Marketing Team

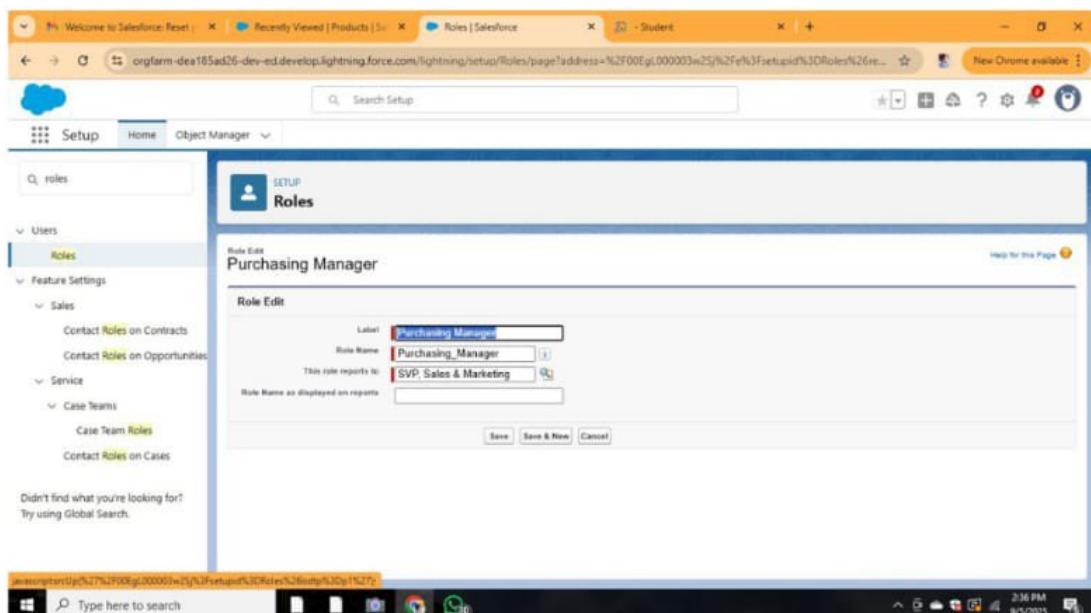
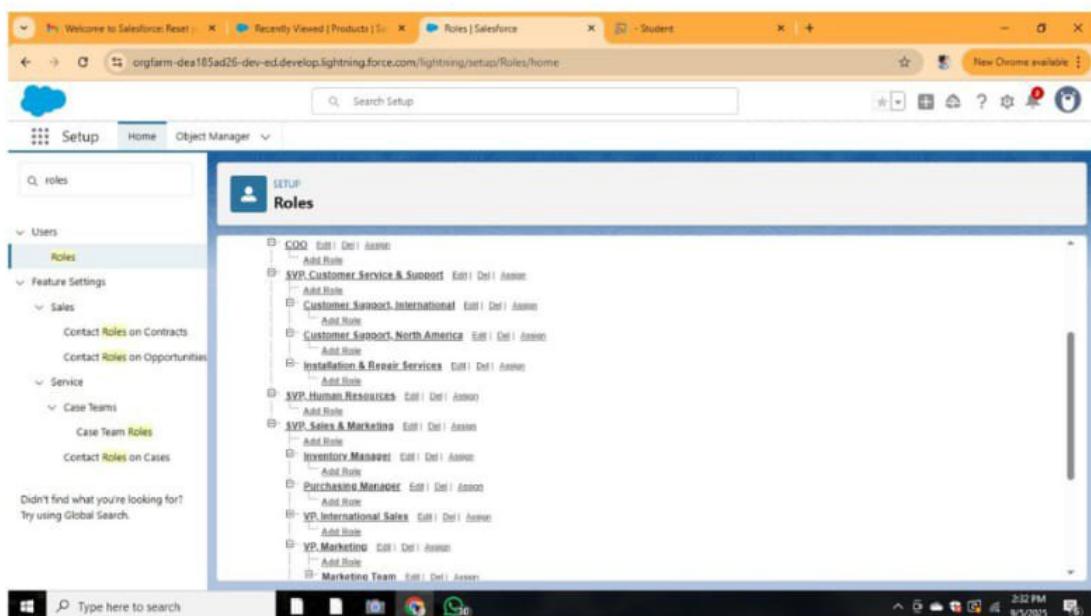
Each role entry includes 'Edit', 'Delete', and 'Assign' buttons.

The screenshot shows the 'Role Edit' page for the 'Inventory Manager' role. The page title is 'Inventory Manager'. The 'Role Edit' section contains the following fields:

- Label:
- Role Name:
- This role reports to:
- Role Name as displayed on reports:

At the bottom of the form are 'Save', 'Save & New', and 'Cancel' buttons.

- **Adding roles to SVP,Sales and Marketing as Purchasing Manager :**

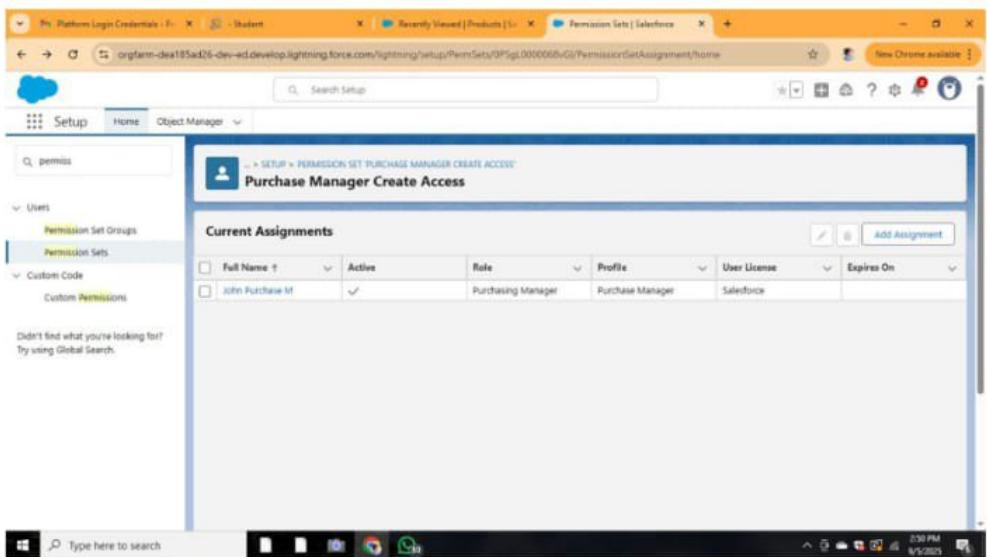


## • Creating a Permission Set

**Creating a Permission Set for Purchase Manager:**

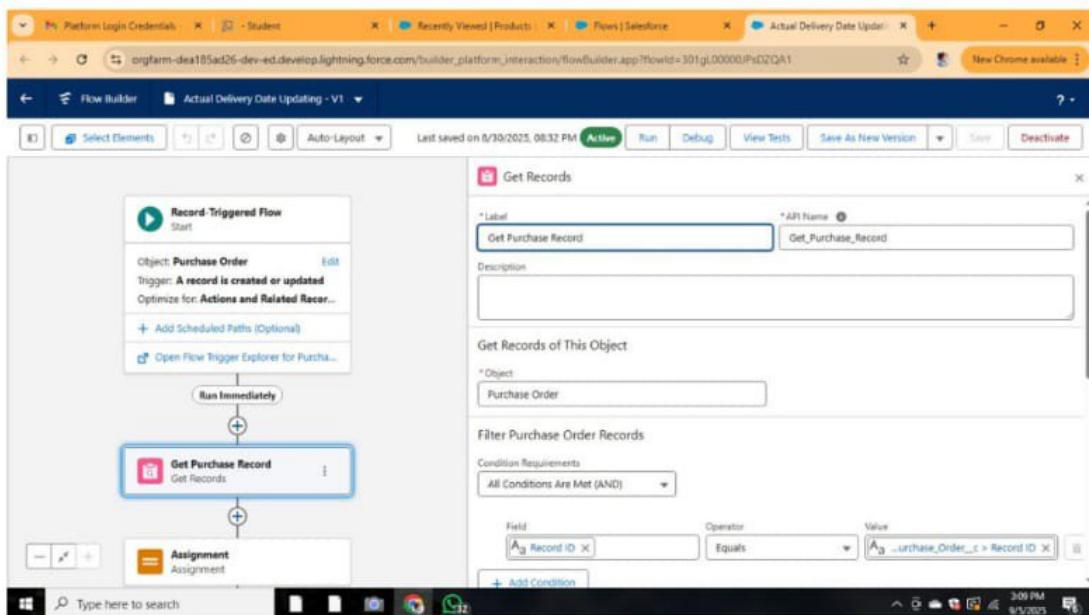
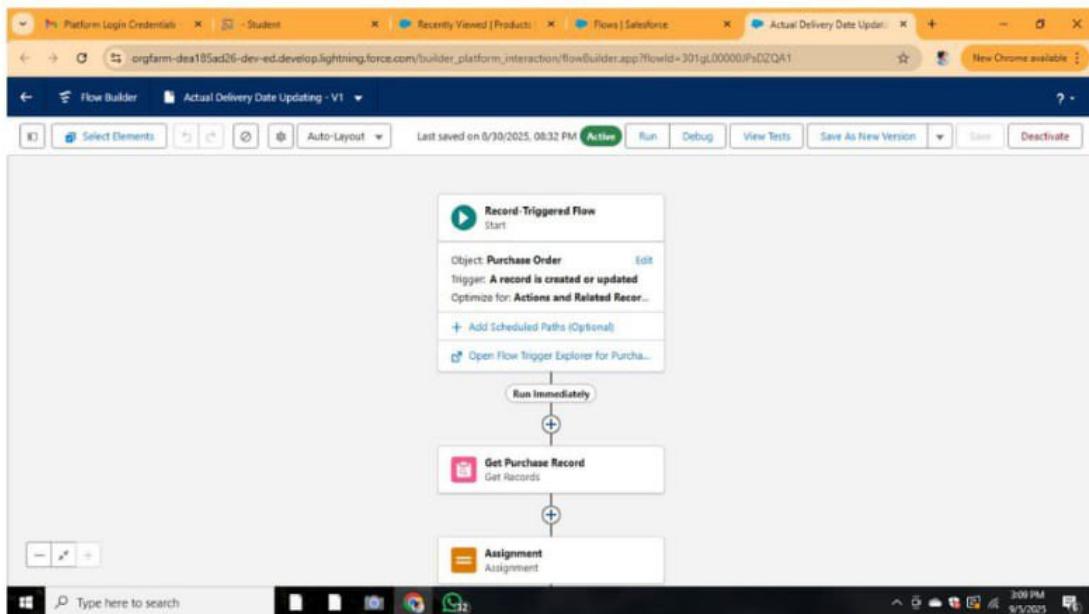
The screenshot shows the Salesforce Setup interface. On the left sidebar, under 'Users', 'Permission Set Groups' is selected. In the main area, a new permission set is being created with the name 'Purchase Manager Create Access'. The 'Permission Set Overview' section shows the API Name 'Purchase\_Manager' and the Namespace Prefix 'Purchase\_Manager'. The 'Description' field is empty. Under the 'Apps' section, there are tabs for 'Assigned Apps', 'Assigned Connected Apps', 'Object Settings', and 'App Permissions'. The status bar at the bottom indicates the URL as <https://orgfarm-dea185ad26-dev-ed.my.salesforce.com/soneone.app#/servlet/reroute/105g1000006bvGr>, the time as 2:47 PM, and the date as 9/5/2025.

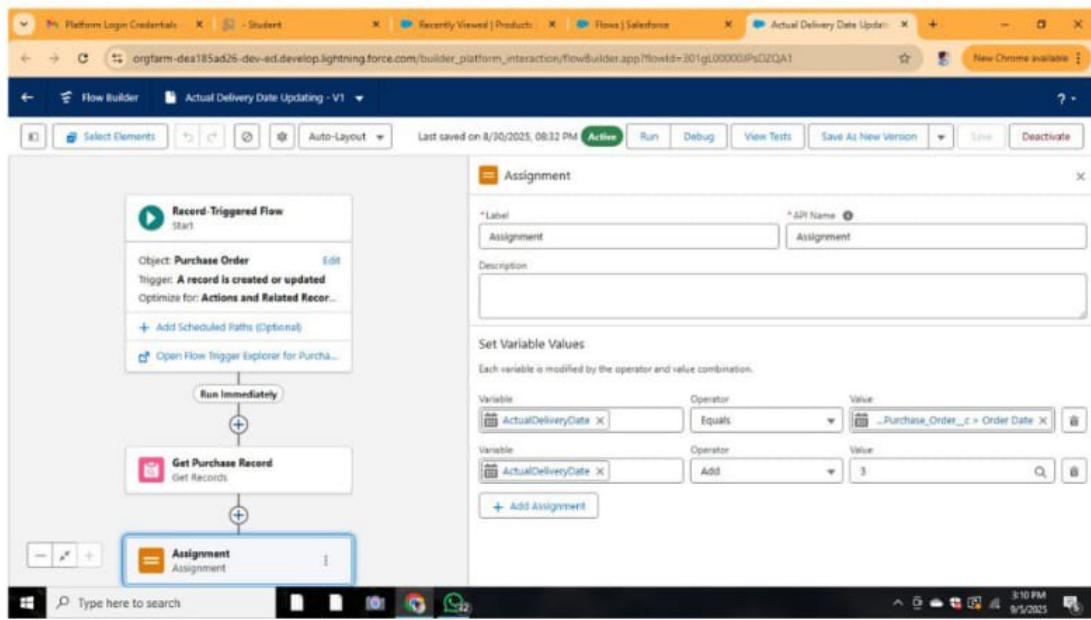
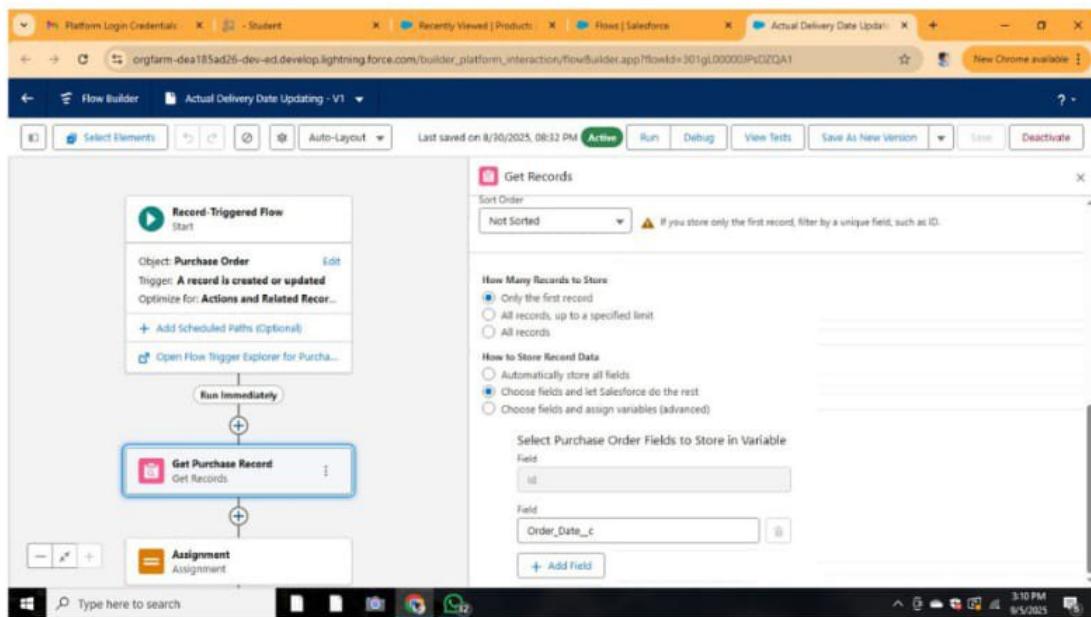
This screenshot shows the configuration of the 'Purchase Manager Create Access' permission set. It is currently set to 'Order Items'. The 'Tab Settings' section has 'Available' checked and 'Visible' checked. The 'Object Permissions' section lists several permissions: Read, Create, Edit, Delete, View All, and Modify All. The 'Enabled' column for these permissions is checked for 'Read', 'Create', and 'Edit', while 'Delete', 'View All', and 'Modify All' are unchecked. A red box highlights the 'Enabled' column for the 'Edit' permission.

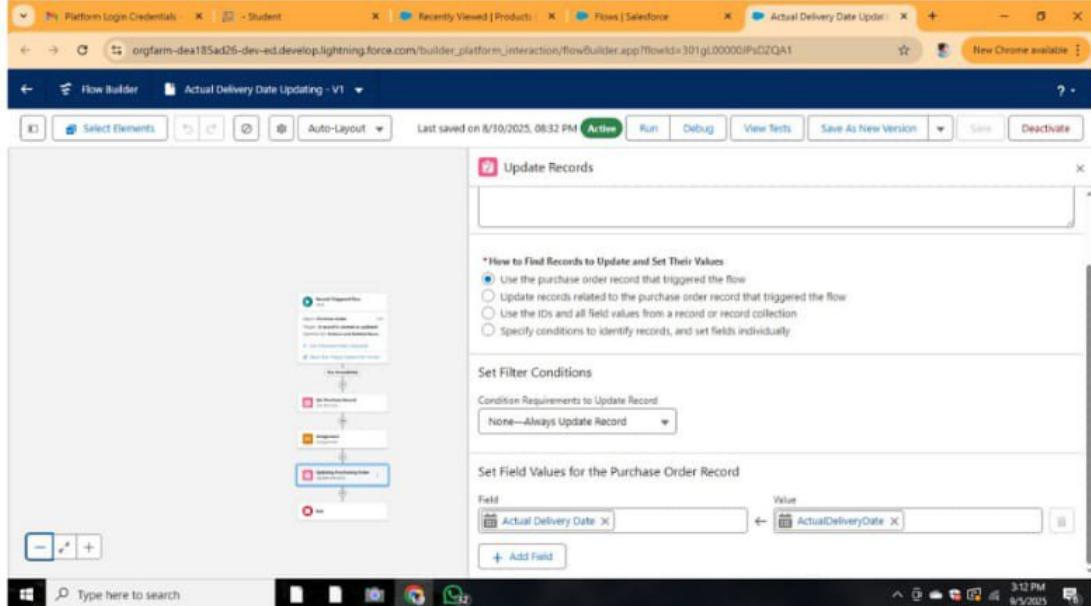
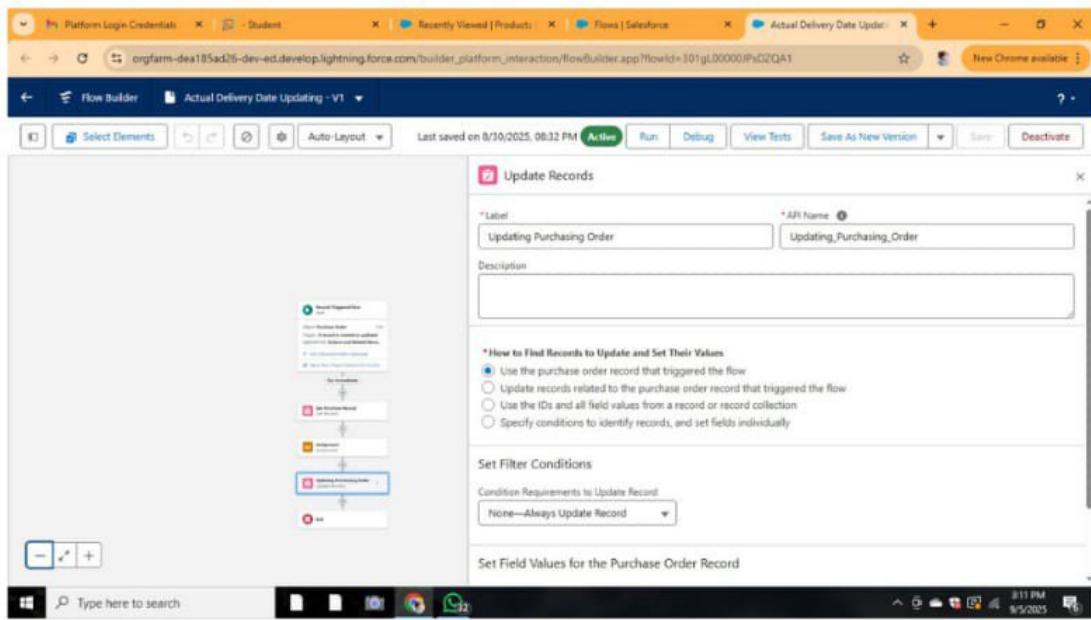


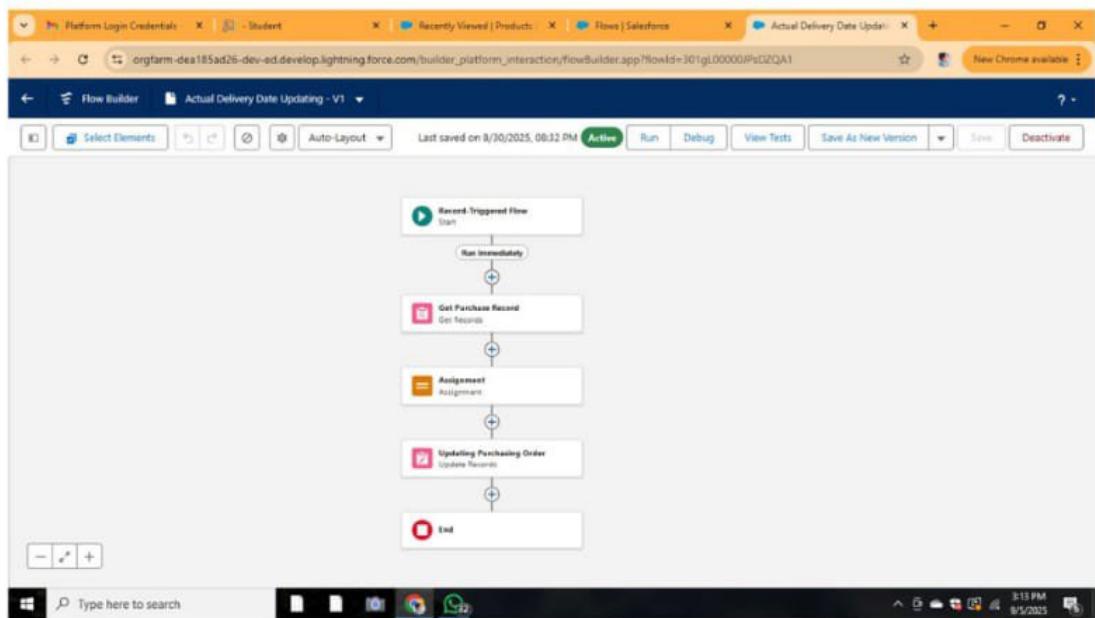
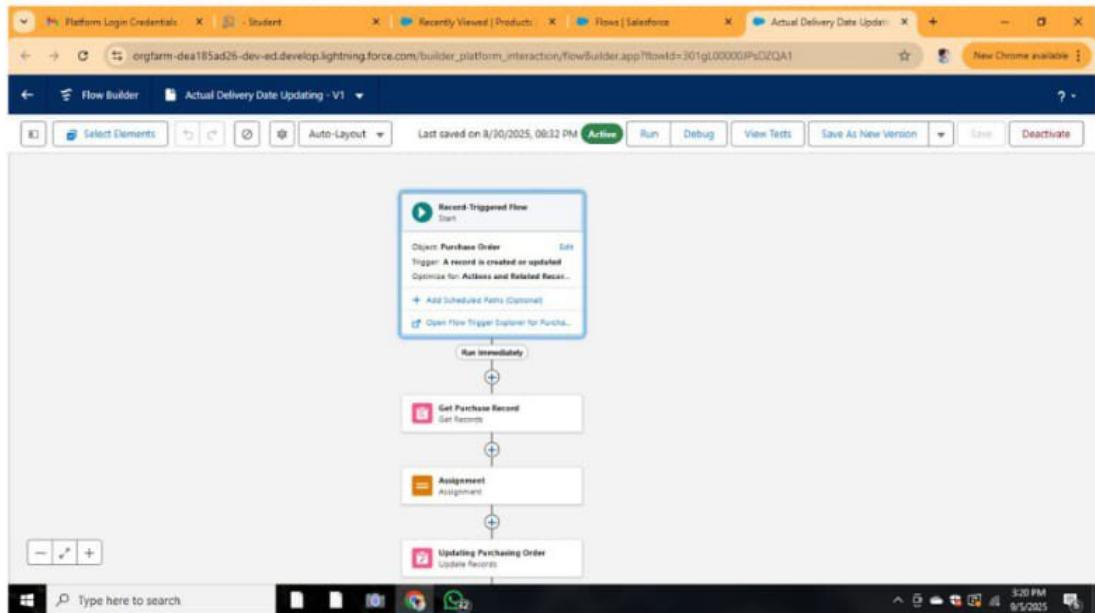
# • Flows

- To Create Flow and to Update: The Actual Delivery Date.



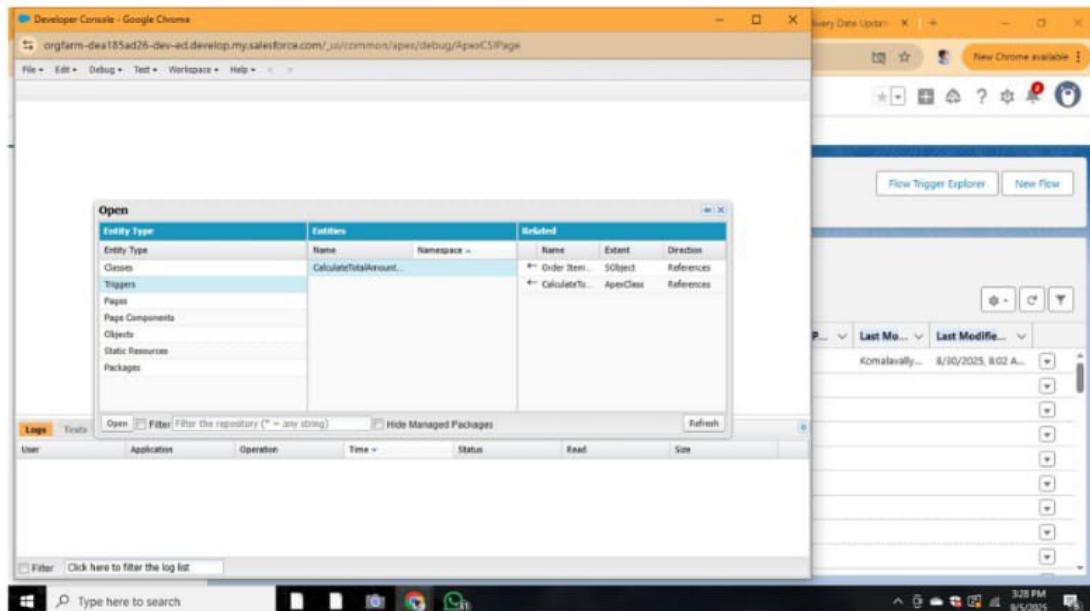






# • Triggers:

- **To Create a Trigger To Calculate Total Amount On Order Item.**



The screenshot shows the Salesforce Developer Console in Google Chrome. The code editor displays an Apex trigger named 'CalculateTotalAmountTrigger.apxt'. The trigger is defined with the following code:

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

Developer Console - Google Chrome  
orgfarm-dea185ad26-dev-ed.develop.my.salesforce.com/\_ui/common/apex/debug/ApexCSPage

File • Edit • Debug • Test • Workspace • Help • < |

CalculateTotalAmountTrigger.apic | CalculateTotalAmountHandler.apic | Go To

Code Coverage: None • API Version: 64

```
1 * public class CalculateTotalAmountHandler {  
2  
3  
4  
5     // Method to calculate the total amount for Purchase Orders based on related Order Items  
6  
7     public static void calculateTotal(List<Order_Item__c> newItems, List<Order_Item__c> oldItems, Boolean isInsert, Boolean isUpdate) {  
8  
9         // Collect Purchase Order IDs affected by changes in Order_Item__c records  
10        Set<Id> parentIds = new Set<Id>();  
11  
12        for(Order_Item__c item : newItems) {  
13            parentIds.add(item.Parent_Order__c);  
14        }  
15  
16    }  
17}
```

Logs Tests Checkpoints Query Editor View State Progress Pending

User	Application	Operation	Time	Status	Read	Size

Filter Click here to filter the log list Type here to search 3:31 PM 9/5/2023

# • Reports:

- ***Creating a Report on Purchase Orders Based On Suppliers(Summary Report)***

The screenshot shows the Salesforce Reports page. The left sidebar contains navigation links for Reports, Recent, and various report categories like Created by Me, Private Reports, Public Reports, All Reports, Folders, and Favorites. The main content area displays a table of recent reports with columns for Report Name, Description, Folder, Created By, Created On, and Subscribed. Two reports are listed: "Purchase Orders based on Suppliers" and "Complete Purchase Details Report".

REPORTS	Report Name	Description	Folder	Created By	Created On	Subscribed
Recent	Purchase Orders based on Suppliers	Private Reports	Komalavally U	8/31/2025, 10:39 PM		
Created by Me	Complete Purchase Details Report	Private Reports	Komalavally U	8/31/2025, 10:53 PM		

The screenshot shows the Salesforce Report Builder interface for a report titled "Purchase Orders based on Suppliers". The left sidebar has a "Fields" section with "Filters" expanded, showing options like "Supplier ID", "Purchase Order", "Total Order Cost", and "Order Count". The main content area displays a preview of the report data. The preview table has columns for Supplier ID, Purchase Order, Total Order Cost, and Order Count. It lists six purchase orders from different suppliers, with a total cost of \$299,050.00 and an average cost of \$49,841.67.

Supplier ID	Purchase Order	Total Order Cost	Order Count
Purchase-0001 (1)	\$1,500.00	1	
Purchase-0002 (1)	\$5,850.00	1	
Purchase-0003 (1)	\$64,800.00	1	
Purchase-0004 (1)	\$72,000.00	1	
Purchase-0005 (1)	\$80,250.00	1	
Supplier-0006 (1)	\$74,850.00	1	
Total (6)	\$299,050.00	6	
	Arg. \$49,841.67		

Screenshot of the Salesforce Report Builder interface showing a report titled "Purchase Orders based on Suppliers".

The report details the following data:

Supplier ID	Purchase Order: Purchase Order ID	Total Order Cost	Order Count
Purchase List (6)	Purchase-0001 (1)	\$1,500.00	1
	Purchase-0002 (1)	\$5,850.00	1
	Purchase-0003 (1)	\$54,800.00	1
	Purchase-0004 (1)	\$72,900.00	1
	Purchase-0005 (1)	\$90,250.00	1
	Supplier-0006 (1)	\$74,850.00	1
Total (6)		\$299,050.00	6
		Arg: \$49,841.67	

Report Fields (Left Panel):

- Groups:
  - GROUP ROWS: Supplier ID
  - Add group...
- Purchase Order: Purchase Order ID
- GROUP COLUMNS:
  - Add group...
- Columns:
  - Add column...
  - # Total Order Cost
  - # Order Count

Report Buttons (Top Right): Add Chart, Save & Run, Save, Close, Run, Update Preview Automatically (checked).

Screenshot of the final published report titled "Purchase Orders based on Suppliers".

The report displays the same data as the Report Builder:

Supplier ID	Purchase Order: Purchase Order ID	Total Order Cost	Order Count
Purchase List (6)	Purchase-0001 (1)	\$1,500.00	1
	Purchase-0002 (1)	\$5,850.00	1
	Purchase-0003 (1)	\$54,800.00	1
	Purchase-0004 (1)	\$72,900.00	1
	Purchase-0005 (1)	\$90,250.00	1
	Supplier-0006 (1)	\$74,850.00	1
Total (6)		\$299,050.00	6
		Arg: \$49,841.67	

Report Buttons (Top Right): Enable Field Editing, Search, Add Chart, Edit.

## • Creating a Report on Complete Purchase Details Report

Report Name	Description	Folder	Created By	Created On	Subscribed
Purchase Orders based on Suppliers		Private Reports	Komalavally U	8/31/2025, 10:39 PM	
Complete Purchase Details Report		Private Reports	Komalavally U	8/31/2025, 10:55 PM	

Supplier ID	Actual Delivery Date	Purchase Order	Product ID	Order Count	Product Name	Quantity
Purchase List (8)	9/4/2025 (6)	Supplier-0006 (1)	01tgL000005QNJ3	1	Glutamine tablets	
		Subtotal		1		Avg 1 Max 1
		Purchase-0005 (1)	01tgL000005QMEV	1	Skin creams and Lotions	
		Subtotal		1		Avg 1 Max 1
		Purchase-0004 (1)	01tgL000005QLtx	1	Heart Medicines	
		Subtotal		1		Avg 1 Max 1
		Purchase-0003 (1)	01tgL000005QLt8	1	Antibiotics	
		Subtotal		1		Avg 1 Max 1

Screenshot of the Salesforce Report Builder interface showing the "Complete Purchase Details Report".

**Report Title:** Complete Purchase Details Report / Purchase Orders with Order Items and Product ID

**Fields:**

- Groups: Supplier ID, Actual Delivery Date, Purchase Order: Purchase Order ID
- Columns: Product ID: Product ID, Order Count, Product ID: Product Name, Quantity Received

**Data Preview:**

Supplier ID	Actual Delivery Date	Purchase Order: Purchase Order ID	Product ID: Product ID	Order Count	Product ID: Product Name	Quantity Received
Purchase List (6)	9/4/2025 (6)	Supplier-0006 (1)	01tgL600005QHJ3	1	Glutamine tablets	
		Subtotal		1		
				Avg. 1		
				Max. 1		
		Purchase-0005 (1)	01tgL600005QMEV	1	Skin creams and Lotions	
		Subtotal		1		
				Avg. 1		
				Max. 1		
		Purchase-0004 (1)	01tgL600005QLtx	1	Heart Medicines	
		Subtotal		1		
				Avg. 1		
				Max. 1		
		Purchase-0003 (1)	01tgL600005QLtI	1	Antibiotics	
		Subtotal		1		
				Avg. 1		
				Max. 1		

**Run Options:** Add Chart, Save & Run, Save, Close, Run

Screenshot of the Salesforce Report View interface showing the "Complete Purchase Details Report".

**Report Title:** Report: Purchase Orders with Order Items and Product ID / Complete Purchase Details Report

**Summary Metrics:**

Total Records	Total Order Count	Average Order Count	Maximum Order Count	Total Quantity Received	Total Amount	Average Amount
6	6	1	1	350	\$299,050.00	\$49,841.67

**Fields:**

- Supplier ID, Actual Delivery Date, Purchase Order: Purchase Order ID
- Product ID: Product ID, Order Count, Product ID: Product Name, Quantity Received, Amount

**Data Preview:**

Supplier ID	Actual Delivery Date	Purchase Order: Purchase Order ID	Product ID: Product ID	Order Count	Product ID: Product Name	Quantity Received	Amount
Purchase List (6)	9/4/2025 (6)	Supplier-0006 (1)	01tgL600005QHJ3	1	Glutamine tablets	75	\$74,850.00
		Subtotal		1		75	\$74,850.00
				Avg. 1			
				Max. 1			
		Purchase-0005 (1)	01tgL600005QMEV	1	Skin creams and Lotions	95	\$99,250.00
		Subtotal		1		95	\$99,250.00
				Avg. 1			
				Max. 1			
		Purchase-0004 (1)	01tgL600005QLtx	1	Heart Medicines	90	\$72,000.00
		Subtotal		1		90	\$72,000.00
				Avg. 1			
				Max. 1			
		Purchase-0003 (1)	01tgL600005QLtI	1	Antibiotics	70	\$54,600.00
		Subtotal		1		70	\$54,600.00
				Avg. 1			
				Max. 1			

**Run Options:** Enable Field Editing, Add Chart, Edit, Row Counts, Detail Rows, Subtotals, Grand Total

# • Dashboards:

The screenshot shows the Salesforce Dashboards page. At the top, there are tabs for 'Recently Viewed | Products', 'Recent | Dashboards | Sales', and 'Actual Delivery Date Update'. Below the tabs, a search bar and a toolbar with various icons are visible. The main area displays a table titled 'Dashboards' with the following columns: Dashboard Name, Description, Folder, Created By, Created On, and Subscribed. A filter bar above the table includes 'Search recent dashboards...', 'New Dashboard', 'New Folder', and a refresh icon. On the left side, there is a sidebar with categories: 'Recent' (which is selected), 'Created by Me', 'Private Dashboards', 'All Dashboards', 'Folders' (selected), 'All Folders', 'Created by Me', 'Shared with Me', 'Favorites', and 'All Favorites'. The table shows one item: 'Medical inventory Dashboard' created by Komalavally U on 9/1/2025 at 5:38 AM.

The screenshot shows the 'Medical Inventory Dashboard' page. At the top, there are tabs for 'Recently Viewed | Products', 'Recent | Dashboards | Sales', and 'Actual Delivery Date Update'. Below the tabs, a search bar and a toolbar with 'Refresh', 'Edit', and 'Subscribe' buttons are visible. The main area displays a report titled 'Complete Purchase Details Report'. It features a donut chart labeled 'Sum of Amount' with a total value of '\$299k'. The chart segments are: Other (green), Purchase-003 (blue), Purchase-004 (light blue), Purchase-005 (purple), and Purchase-006 (dark purple). To the right of the chart is a list titled 'Purchase Order: Purchase ...' with items: 'Other' (green dot), 'Purchase-003' (blue dot), 'Purchase-004' (light blue dot), 'Purchase-005' (purple dot), and 'Supplier-006' (dark purple dot). Below the chart, there is a link 'View Report (Complete Purchase De...)' and a timestamp 'As of Sep 5, 2025, 3:22 AM'. The page is viewed as 'Komalavally U'.

## • Conclusion:

- *The Medical Inventory Management system developed under the Naan Mudhalvan initiative has provided an efficient solution for maintaining, tracking, and managing medical stock in hospitals, clinics, and pharmacies. By automating processes such as stock entry, expiry date monitoring, supplier management, and demand forecasting, the system minimizes human errors and ensures timely availability of medicines and equipment.*
- *This project not only enhances operational efficiency but also supports patient care by preventing shortages of essential drugs. Furthermore, the integration of reports, analytics, and alerts enables administrators to make data-driven decisions. Overall, this project demonstrates how digital technology can transform healthcare inventory management into a more reliable, transparent, and sustainable process.*

- **Project Achievements:**

1. ***Efficient Stock Management*** – *Automated tracking of medicines and equipment reduced manual errors and improved accuracy.*
2. ***Expiry & Shortage Alerts*** – *System successfully generated reminders for near-expiry drugs and low-stock alerts, preventing wastage and shortages.*
3. ***Time-Saving Process*** – *Reduced the workload of staff by minimizing paperwork and speeding up inventory updates.*
4. ***Data-Driven Decisions*** – *Generated reports and analytics that helped administrators plan purchases and monitor consumption trends.*
5. ***Cost Optimization*** – *Controlled overstocking and understocking, leading to better financial management.*

- **Student Learning Outcomes:**

1. ***Technical Skills*** – *Gained hands-on experience in database management, front-end and back-end development, and system integration.*
2. ***Communication Skills*** – *Enhanced presentation, documentation, and reporting skills while explaining the project.*
3. ***Collaboration & Teamwork*** – *Improved ability to work in a team, coordinate tasks, and share responsibilities effectively.*

- **Future Scope:**

1. ***Cloud Integration – Hosting the system on cloud platforms for real-time access across multiple hospitals, clinics, and pharmacies.***
2. ***Mobile Application – Developing Android/iOS apps for staff to update and monitor stock anytime, anywhere.***
3. ***Barcode / QR Code Scanning – Implementing scanning technology for faster stock entry, billing, and verification.***
4. ***AI & Machine Learning – Using predictive analytics to forecast medicine demand and reduce wastage.***
5. ***IoT Integration – Connecting smart shelves and sensors to track inventory automatically.***