

Project Files

Date	28 June 2025
Team ID	LTVIP2025TMID30494
Project Name	Medical Inventory Management

This is a Salesforce-based implementation, so the "executables" are not traditional .exe files but configurations and custom code within the Salesforce ecosystem. The project includes:

A. Custom Salesforce Objects

- Product Object

The screenshot shows the Salesforce Setup interface for the 'Product' object. The left sidebar contains a list of 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, Search Layouts, List View Button Layout, Restriction Rules, Scoping Rules, Object Access, and Triggers. The main content area is titled 'Product' and includes a 'Details' section with the following fields:

Description	
API Name	Product__c
Custom	✓
Singular Label	Product
Plural Label	Products
Enable Reports	✓
Track Activities	
Track Field History	
Deployment Status	Deployed
Help Settings	Standard salesforce.com Help Window

Buttons for 'Edit' and 'Delete' are located in the top right corner of the details section.

- Purchase Order Object

The screenshot shows the Salesforce Setup interface for the 'Purchase Order' object. The left sidebar contains a list of 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, Search Layouts, List View Button Layout, Restriction Rules, Scoping Rules, Object Access, and Triggers. The main content area is titled 'Purchase Order' and includes a 'Details' section with the following fields:

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

Buttons for 'Edit' and 'Delete' are located in the top right corner of the details section.

- Order Item Object

The screenshot shows the Salesforce Setup interface for the 'Order Item' object. The left sidebar contains a 'Details' menu with options: 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, and Triggers. The main content area is titled 'Order Item' and includes a 'Details' section with the following fields:

Field	Value
Description	
API Name	Order_Item__c
Custom	<input checked="" type="checkbox"/>
Singular Label	Order Item
Plural Label	Order Items
Enable Reports	<input checked="" type="checkbox"/>
Track Activities	<input checked="" type="checkbox"/>
Track Field History	<input checked="" type="checkbox"/>
Deployment Status	Deployed
Help Settings	Standard salesforce.com Help Window

Buttons for 'Edit' and 'Delete' are located in the top right corner of the details section.

- Inventory Transaction Object

The screenshot shows the Salesforce Setup interface for the 'Inventory Transaction' object. The left sidebar contains a 'Details' menu with options: 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, and Triggers. The main content area is titled 'Inventory Transaction' and includes a 'Details' section with the following fields:

Field	Value
Description	
API Name	Inventory_Transaction__c
Custom	<input checked="" type="checkbox"/>
Singular Label	Inventory Transaction
Plural Label	Inventory Transactions
Enable Reports	<input checked="" type="checkbox"/>
Track Activities	<input checked="" type="checkbox"/>
Track Field History	<input checked="" type="checkbox"/>
Deployment Status	Deployed
Help Settings	Standard salesforce.com Help Window

Buttons for 'Edit' and 'Delete' are located in the top right corner of the details section.

- Supplier Object

The screenshot shows the Salesforce Setup interface for the 'Supplier' object. The left sidebar contains a 'Details' menu with options: 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, and Triggers. The main content area is titled 'Supplier' and includes a 'Details' section with the following fields:

Field	Value
Description	
API Name	Supplier__c
Custom	<input checked="" type="checkbox"/>
Singular Label	Supplier
Plural Label	Suppliers
Enable Reports	<input checked="" type="checkbox"/>
Track Activities	<input checked="" type="checkbox"/>
Track Field History	<input checked="" type="checkbox"/>
Deployment Status	Deployed
Help Settings	Standard salesforce.com Help Window

Buttons for 'Edit' and 'Delete' are located in the top right corner of the details section.

B. Custom Tabs and App

- Tabs for each object

The screenshot shows the Salesforce Setup interface. The left sidebar contains navigation links for Setup, Home, Object Manager, and various tools. The main content area is titled 'Custom Tabs' and provides instructions on creating custom tabs. It lists four types of tabs: Custom Object Tabs, Web Tabs, Visualforce Tabs, and Lightning Component Tabs. The Custom Object Tabs section is expanded, showing a table of existing tabs.

Action	Label	Tab Style	Description
Edit Del	Inventory Transactions	Desk	
Edit Del	Order Items	Car	
Edit Del	Products	Stethoscope	
Edit Del	Purchase Orders	Cup	
Edit Del	Suppliers	Train	

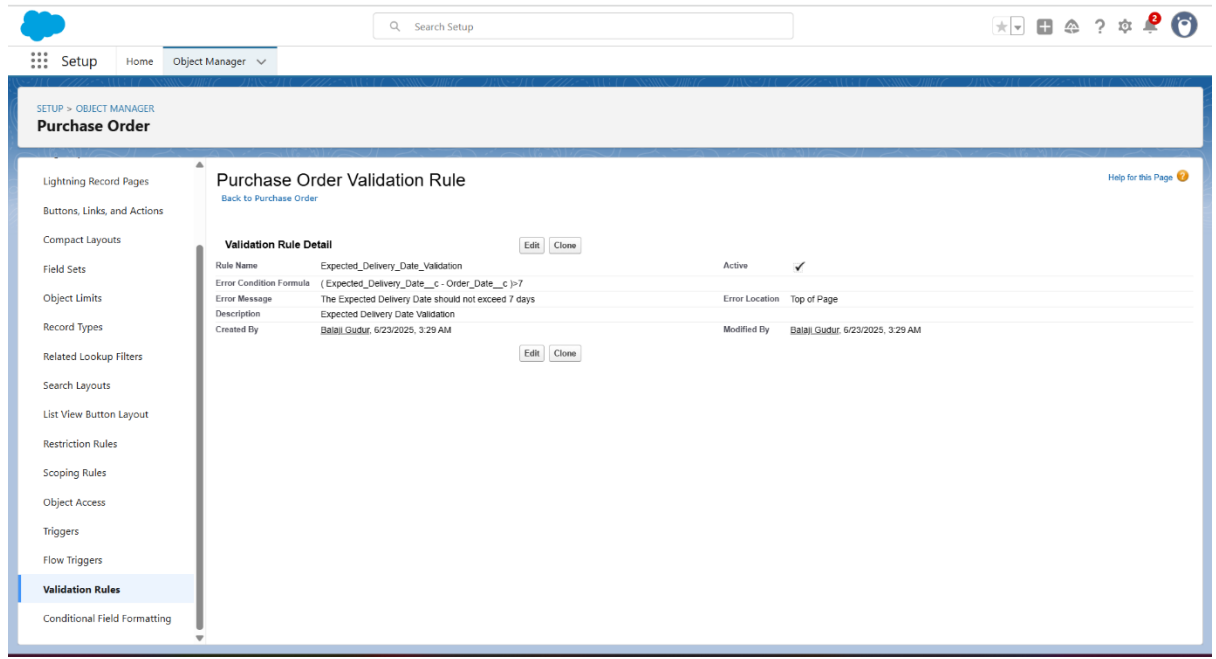
- A Lightning App called Medical Inventory Management with navigation setup

The screenshot shows the 'Medical Inventory Management' Lightning App. The top navigation bar includes links for Products, Purchase Orders, Order Items, Inventory Transactions, Suppliers, Reports, and Dashboards. The main content area displays a list of products with columns for Product Id, Product Name, Product Description, Minimum Stock, Current Stock, Unit Price, and Expiry Date. The list is sorted by Product Id and contains 10 items.

	Product Id	Product Name	Product Description	Minimum Stock	Current Stock	Unit Price	Expiry Date
1	P001	Paracetamol 500mg	Used to treat pain and fever	50	120	\$12.50	12/31/2025
2	P002	Vitamin C Tablets	Boosts immunity	30	80	\$8.75	3/15/2026
3	P003	Hand Sanitizer	Alcohol-based hand cleaner	20	60	\$45.00	11/1/2025
4	P004	Digital Thermometer	Measures body temperature	10	25	\$150.00	1/1/2028
5	P005	Surgical Mask	3-layer protective face mask	100	500	\$2.00	9/1/2025
6	P006	Ibuprofen 400mg	Anti-inflammatory painkiller	40	100	\$15.00	10/15/2025
7	P007	Glucose Powder	Instant energy drink mix	25	70	\$25.00	4/10/2026
8	P008	Inhaler	For asthma or respiratory relief	10	30	\$95.00	8/31/2026
9	P009	Blood Pressure Monitor	Measures BP at home	5	10	\$550.00	1/1/2030
10	P010	Antiseptic Liquid	Used for wound disinfection	15	45	\$35.00	7/15/2025

C. Validation Rule

- Expected Delivery Date Validation rule



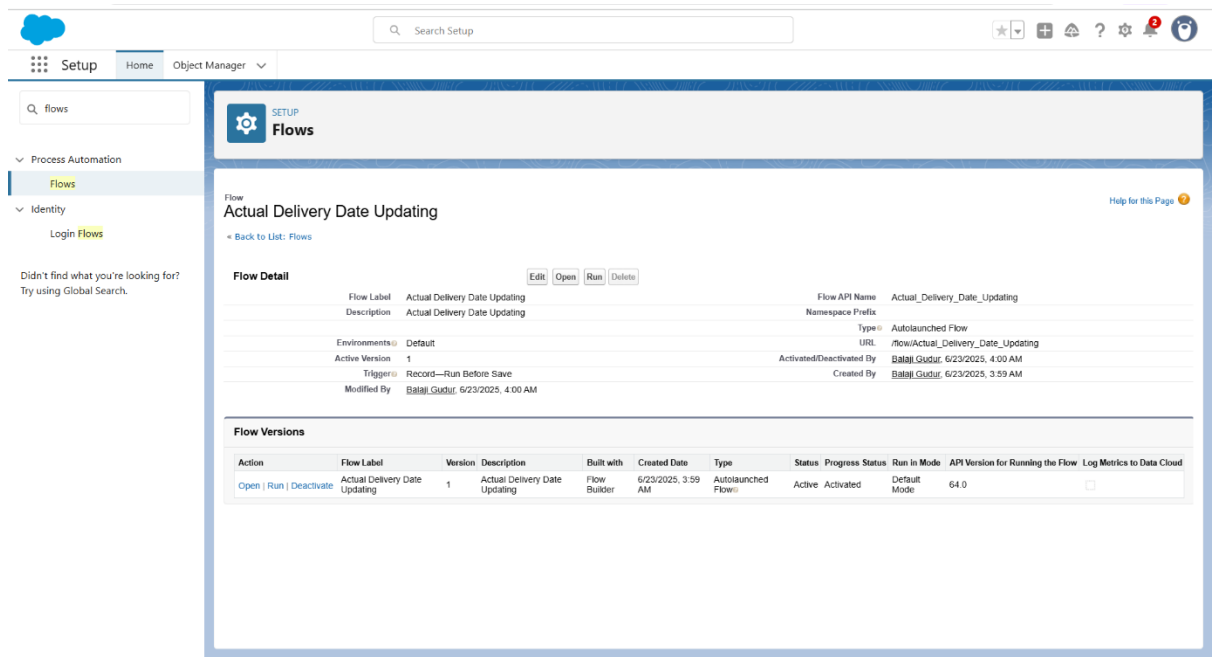
The screenshot shows the Salesforce Setup interface for the 'Purchase Order' object. The left sidebar contains a navigation menu with options like Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, List View Button Layout, Restriction Rules, Scoping Rules, Object Access, Triggers, Flow Triggers, Validation Rules (selected), and Conditional Field Formatting. The main content area is titled 'Purchase Order Validation Rule' and includes a 'Back to Purchase Order' link. Below this is the 'Validation Rule Detail' section, which contains a table with the following information:

Validation Rule Detail		Edit	Clone	Active	✓
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			Error Location	Top of Page
Description	Expected Delivery Date Validation				
Created By	Balaji Guduri, 6/23/2025, 3:29 AM			Modified By	Balaji Guduri, 6/23/2025, 3:29 AM

At the bottom of the 'Validation Rule Detail' section, there are 'Edit' and 'Clone' buttons.

D. Flows

- Record-Triggered Flow for Updating Actual Delivery Date When an Record is Created or Updated in The Purchase Order Object



The screenshot shows the Salesforce Setup interface for the 'Actual Delivery Date Updating' flow. The left sidebar contains a navigation menu with options like Process Automation, Flows (selected), Identity, and Login Flows. The main content area is titled 'Actual Delivery Date Updating' and includes a 'Back to List: Flows' link. Below this is the 'Flow Detail' section, which contains a table with the following information:

Flow Detail		Edit	Open	Run	Delete
Flow Label	Actual Delivery Date Updating				
Description	Actual Delivery Date Updating				
Flow API Name	Actual_Delivery_Date_Updating				
Namespace Prefix					
Type	Autolaunched Flow				
URL	/flow/Actual_Delivery_Date_Updating				
Environments	Default				
Active Version	1				
Trigger	Record—Run Before Save				
Activated/Deactivated By	Balaji Guduri, 6/23/2025, 4:00 AM				
Created By	Balaji Guduri, 6/23/2025, 3:59 AM				
Modified By	Balaji Guduri, 6/23/2025, 4:00 AM				

Below the 'Flow Detail' section is the 'Flow Versions' section, which contains a table with the following information:

Action	Flow Label	Version	Description	Built with	Created Date	Type	Status	Progress Status	Run in Mode	API Version for Running the Flow	Log Metrics to Data Cloud
Open Run Deactivate	Actual Delivery Date Updating	1	Actual Delivery Date Updating	Flow Builder	6/23/2025, 3:59 AM	Autolaunched Flow	Active	Activated	Default Mode	64.0	<input type="checkbox"/>

E. Apex Code

- Apex Trigger: CalculateTotalAmountTrigger on Order_Item__c

```
File • Edit • Debug • Test • Workspace • Help • < >
CalculateTotalAmountTrigger.apex • CalculateTotalAmountHandler.apex
Code Coverage: None • API Version: 64 • Go To

1 • trigger CalculateTotalAmountTrigger on Order_Item__c (after insert, after update, after delete, after undelete) {
2   CalculateTotalAmountHandler.calculateTotal(trigger.new, trigger.old, trigger.isInsert, trigger.isUpdate, trigger.isDelete, trigger.isUndelete);
3 }
```

- Apex Handler Class: CalculateTotalAmountHandler

```
File • Edit • Debug • Test • Workspace • Help • < >
CalculateTotalAmountTrigger.apex • CalculateTotalAmountHandler.apex
Code Coverage: None • API Version: 64 • Go To

1 • public class CalculateTotalAmountHandler {
2 •   public static void calculateTotal(List<Order_Item__c> newItem, List<Order_Item__c> oldItem, Boolean isInsert, Boolean isUpdate, Boolean isDelete, Boolean isUndelete) {
3     Set<Id> parentIds = new Set<Id>();
4     if (isInsert || isUpdate || isUndelete) {
5       for (Order_Item__c ordItem : newItem) {
6         parentIds.add(ordItem.Purchase_Order_Id__c);
7       }
8     }
9     if (isUpdate || isDelete) {
10      for (Order_Item__c ordItem : oldItem) {
11        parentIds.add(ordItem.Purchase_Order_Id__c);
12      }
13    }
14    Map<Id, Decimal> purchaseToUpdateMap = new Map<Id, Decimal>();
15    if (!parentIds.isEmpty()) {
16      List<AggregateResult> aggList = [
17        SELECT Purchase_Order_Id__c, SUM(Amount__c) totalAmount
18        FROM Order_Item__c
19        WHERE Purchase_Order_Id__c IN :parentIds
20        GROUP BY Purchase_Order_Id__c
21      ];
22      for (AggregateResult aggr : aggList) {
23        Id purchaseOrderId = (Id)aggr.get('Purchase_Order_Id__c');
24        Decimal totalAmount = (Decimal)aggr.get('totalAmount');
25        purchaseToUpdateMap.put(purchaseOrderId, totalAmount);
26      }
27      List<Purchase_Order__c> purchaseToUpdate = new List<Purchase_Order__c>();
28      for (Id purchaseOrderId : purchaseToUpdateMap.keySet()) {
29        Purchase_Order__c purchaseOrder = new Purchase_Order__c(Id = purchaseOrderId, Total_Order_cost__c = purchaseToUpdateMap.get(purchaseOrderId));
30        purchaseToUpdate.add(purchaseOrder);
31      }
32      if (!purchaseToUpdate.isEmpty()) {
33        update purchaseToUpdate;
34      }
35    }
36  }
37 }
```

F. Roles :

- Purchasing Manager and Inventory Manager

