Medical Inventory Management

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INTRODUCTION

The Medical Inventory Management System is a comprehensive Salesforce application designed to streamline and manage various operational aspects of the medical inventory. It can efficiently maintain supplier details, manage purchase orders, track product details and transactions, and monitor expiry dates of products, thereby improving operational efficiency, data accuracy, and reporting capabilities.

Project Overview:

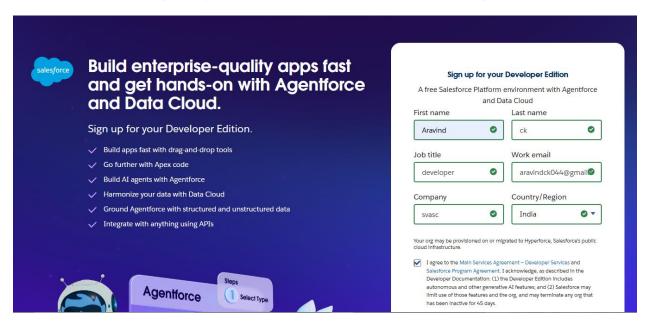
This project is a comprehensive Salesforce application to streamline and manage various operational aspects of medical inventory. The system aims to efficiently maintain supplier details, manage purchase orders, track product details and transactions, and monitor the expiry dates of products. Maintain detailed records of suppliers, including contact information. Catalog product information, including descriptions, stock levels. Monitor and track product expiry dates to avoid using expired items. Comprehensive reports to track supplier performance, and purchase orders.

Milestone 1-Salesforce Account

Creating Developer Account

Creating a developer org in salesforce.

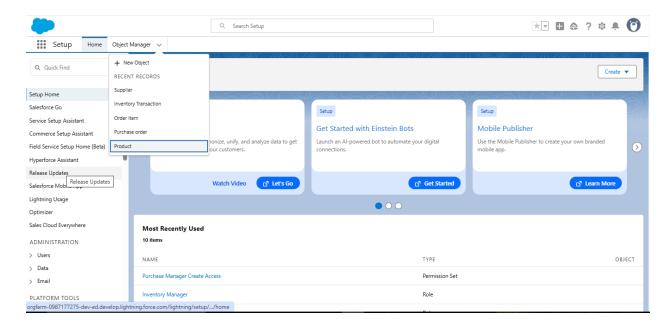
- 1. Go to https://developer.salesforce.com/signup
- 2. On the sign up form, enter the following details:



Click on sign me up after filling these.

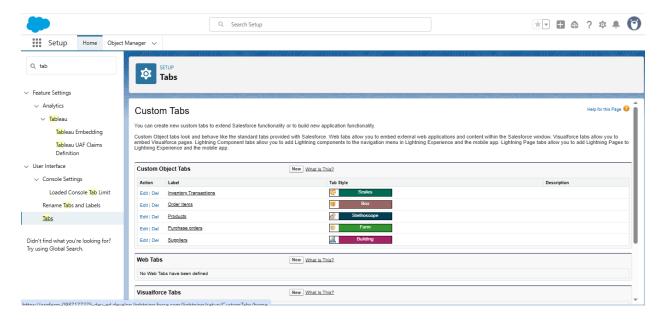
Milestone 2- Objects

Creating a Product Object

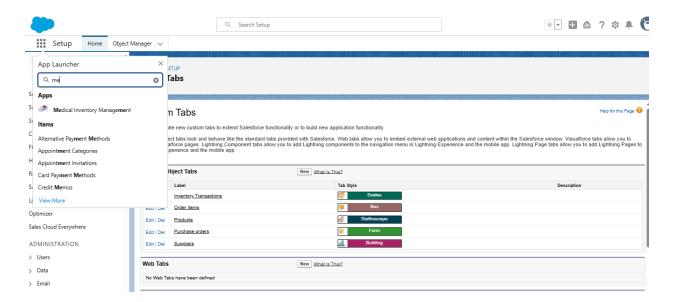


Milestone 3- Tabs

Creating a tab for Object

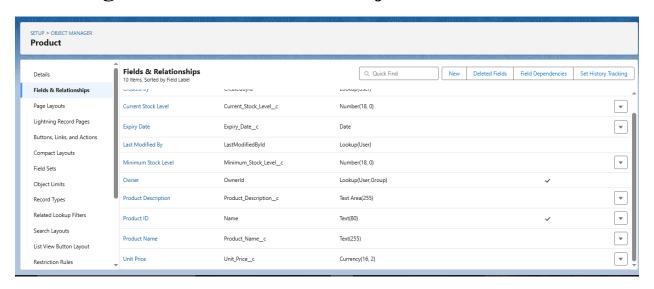


Milestone 4- The Lightning App

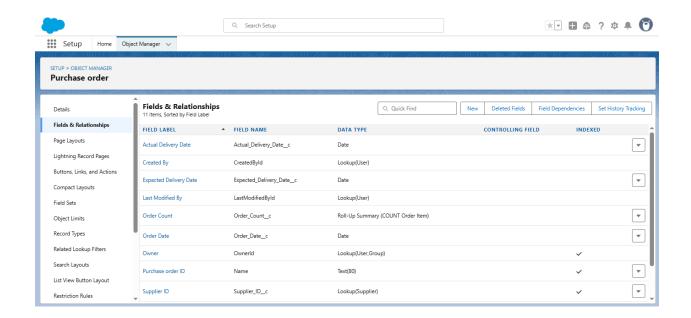


Milestone 5- Fields

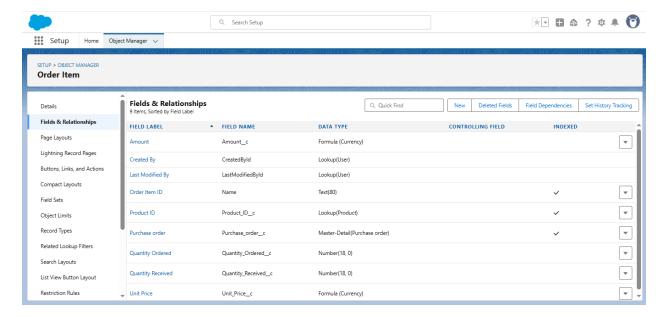
Creating a Field in Product Object



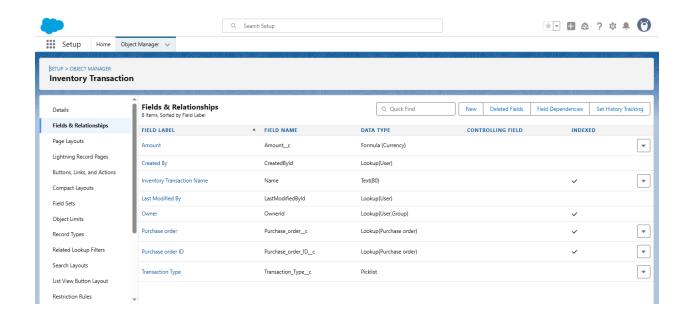
Creating field in purchase order Object



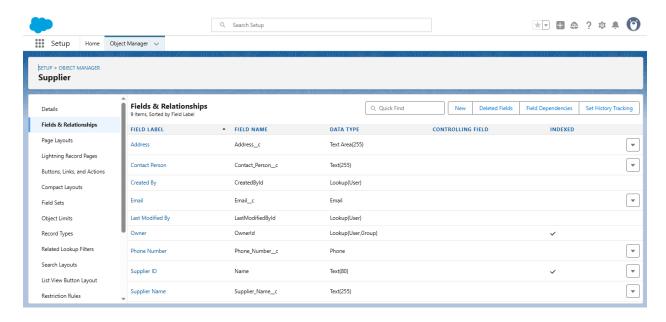
Creating field in order item Object



Creating field in Inventory Transaction Object

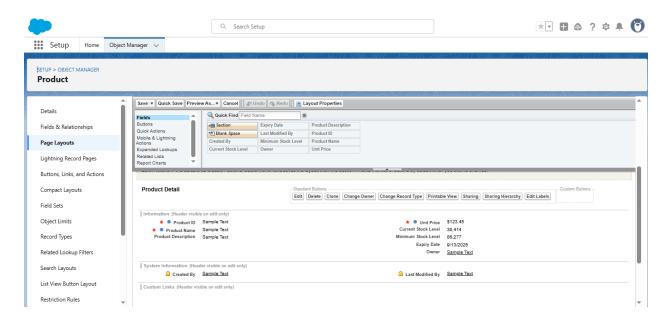


Creating field in supplier Object

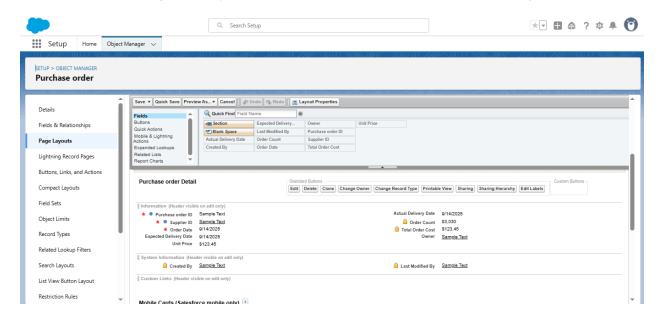


Milestone 6 -Editing of Page Layouts

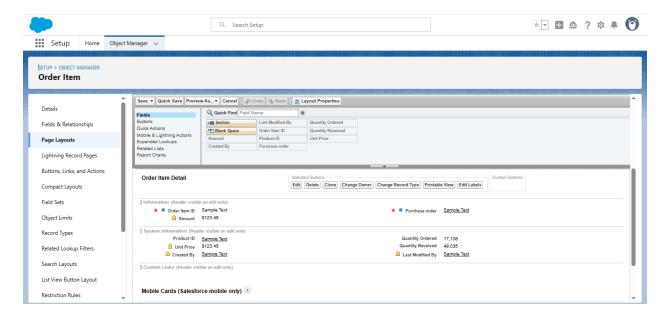
To edit a Page Layout in Product Object



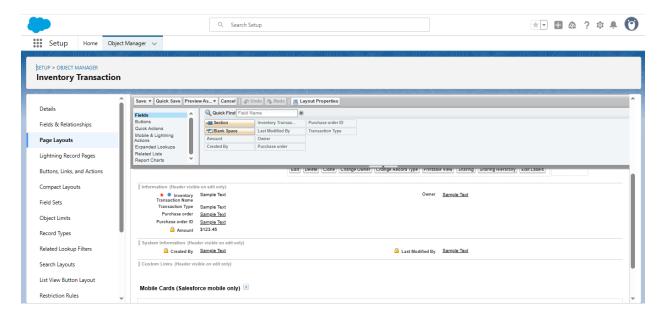
To edit a Page Layout in Purchase Order Object



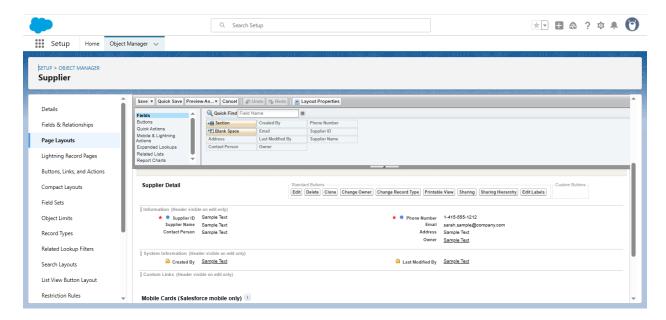
To edit a Page Layout in Order Item Object



To edit a Page Layout in Inventory Transaction Object

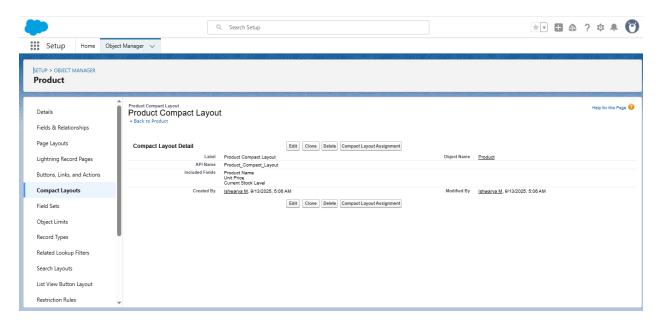


To edit a Page Layout in Supplier Object

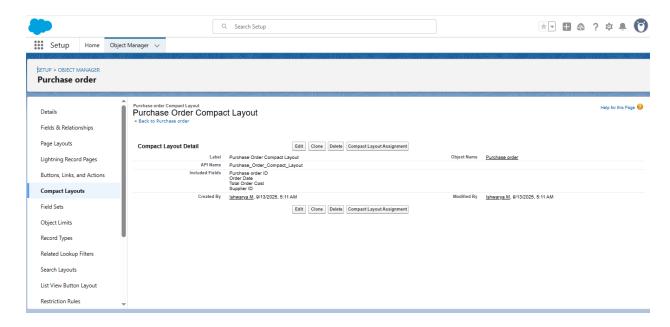


Milestone 7 - Compact Layouts

To create a Compact Layout to a Product Object

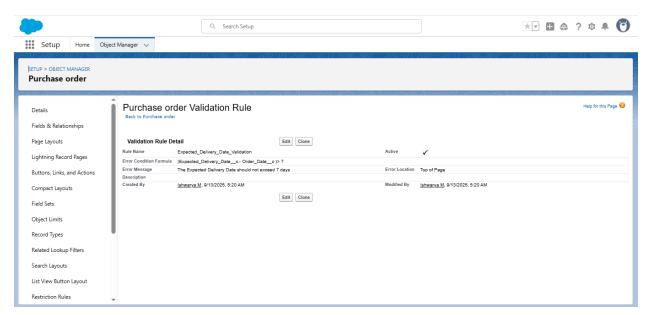


To create a Compact Layout to a Purchase Order Object



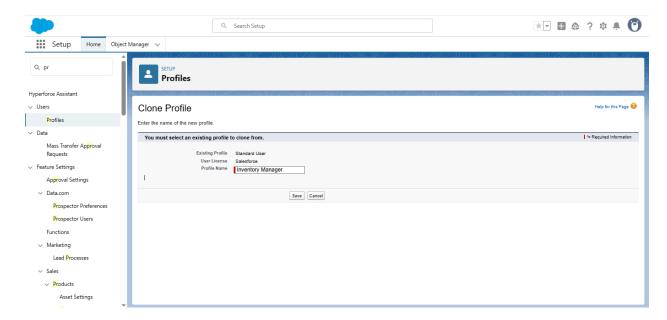
Milestone 8 - Validation Rules

To create an Expected Delivery Date Validation rule to a Employee Object

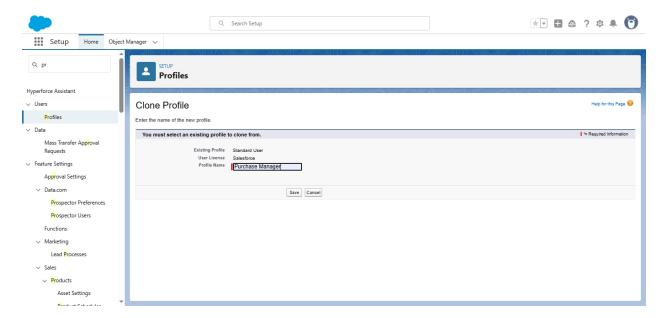


Milestone 9 - Profiles

To create an Inventory Manager Profile

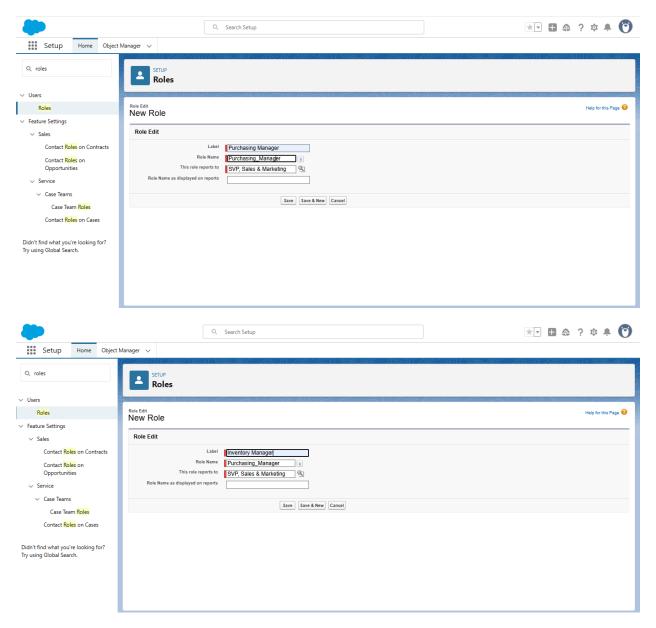


To create an Purchase Manager Profile



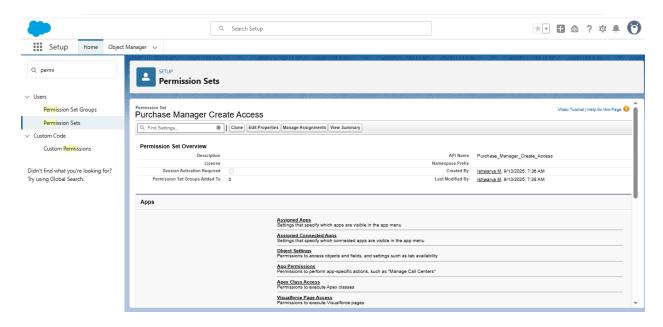
Milestone 10 - Roles

Create a Purchasing Manager Role.



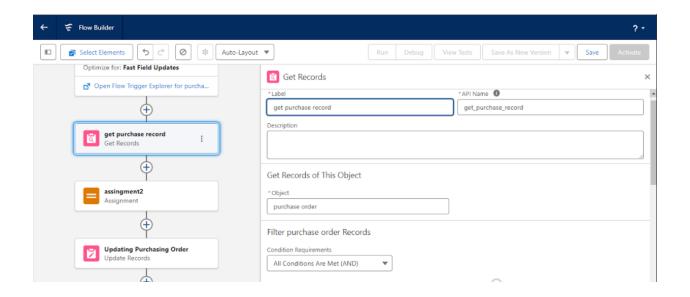
Milestone 12 - Permission Sets

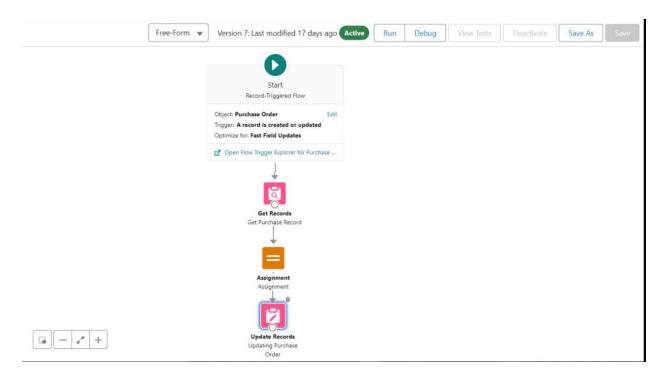
Create a Permission Set.



Milestone 13 – Flows

Create Flow to update the Actual Delivery Date.





Create a Trigger to Calculate total amount on Order Item.

Create an Apex Trigger:

Step 4:

```
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.n
ew, Trigger.old, Trigger.isInsert, Trigger.isUpdate,
Trigger.isDelete, Trigger.isUndelete);
}
```

- i) In the Developer Console window, go to the top menu and click on "File".
- ii)Select New: From the dropdown menu under "File", select "New".
- iii)Choose Apex Class: Name it as CalculateTotalAmountHandler

public class CalculateTotalAmountHandler {

// Method to calculate the total amount for Purchase Orders based on related Order Items

public static void calculateTotal(List<Order_Item__c> newItems, List<Order_Item__c> oldItems, Boolean isInsert, Boolean isUpdate, Boolean isDelete, Boolean isUndelete)

// Collect Purchase Order IDs affected by changes in Order_Item__c records

Set<Id> parentIds = new Set<Id>();

// For insert, update, and undelete scenarios

if (isInsert || isUpdate || isUndelete) {

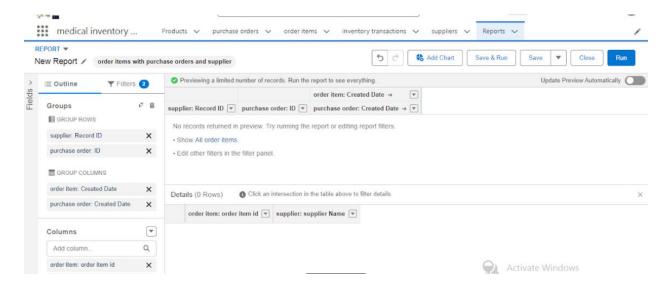
for (Order_Item__c ordItem : newItems) {

parentIds.add(ordItem.Purchase_Order_Id__c);

```
// For update and delete scenarios
    if (isUpdate || isDelete) {
       for (Order Item c ordItem: oldItems) {
         parentIds.add(ordItem.Purchase Order Id c);
       }
    // Calculate the total amounts for affected Purchase
Orders
    Map<Id, Decimal> purchaseToUpdateMap = new
Map<Id, Decimal>
if (!parentIds.isEmpty()) {
      // Perform an aggregate query to sum the
Amount c for each Purchase Order
      List<AggregateResult> aggrList = [
         SELECT Purchase Order Id c,
SUM(Amount c) totalAmount
         FROM Order Item c
```

```
WHERE Purchase Order Id_c IN :parentIds
         GROUP BY Purchase Order Id c
      ];
             // Map the result to Purchase Order IDs
       for (AggregateResult aggr : aggrList) {
         Id purchaseOrderId =
(Id)aggr.get('Purchase Order Id c');
         Decimal total Amount =
(Decimal)aggr.get('totalAmount');
         purchaseToUpdateMap.put(purchaseOrderId,
totalAmount);
      // Prepare Purchase Order records for update
      List<Purchase Order c> purchaseToUpdate =
new List<Purchase Order c>();
       for (Id purchaseOrderId:
purchaseToUpdateMap.keySet()) {
         Purchase Order c purchaseOrder = new
Purchase Order c(Id = purchaseOrderId,
```

```
Total Order cost c =
purchaseToUpdateMap.get(purchaseOrderId));
         purchaseToUpdate.add(purchaseOrder);
       }
     // Update Purchase Orders if there are any changes
       if (!purchaseToUpdate.isEmpty()) {
         update purchaseToUpdate;
       }
Save it.
Milestone 15 - Reports
```



Milestone 16 - Dashboards

