MEDICAL INVENTORY MANAGEMENT

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1.INTRODUCTION

1.1 PROJECT OVERVIEW

The *Medical Inventory Management* project in Salesforce tracks medicines and equipment, manages stock levels, sends alerts for expiry/low stock, and generates reports to ensure timely availability of medical supplies.

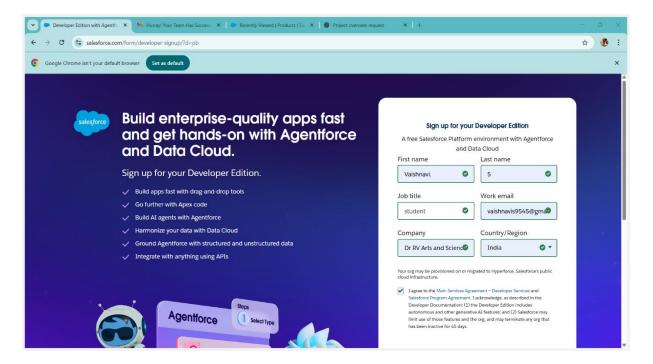
1.2 Purpose

The purpose of the Medical Inventory Management project is to ensure accurate tracking of medicines and equipment, maintain optimum stock levels, avoid shortages or expiries, and provide timely availability of supplies for better healthcare delivery.

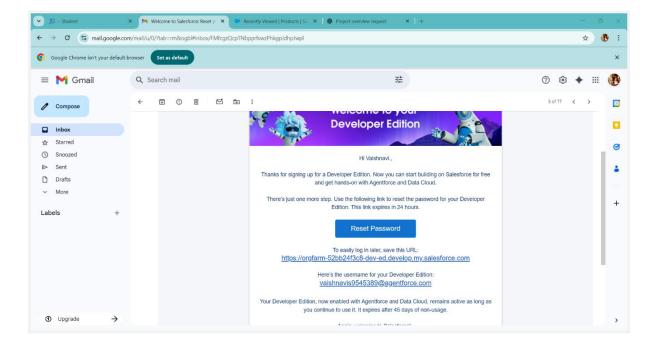
Development phase

Creating Developer Account:

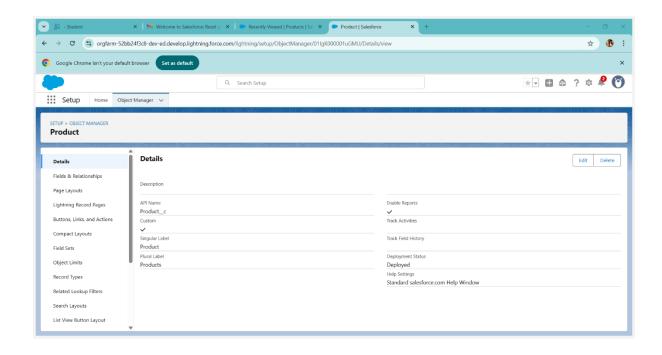
By Using URL - https://developer.salesforce.com/signup

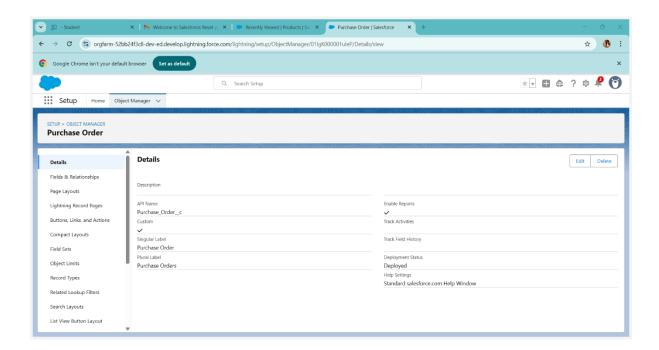


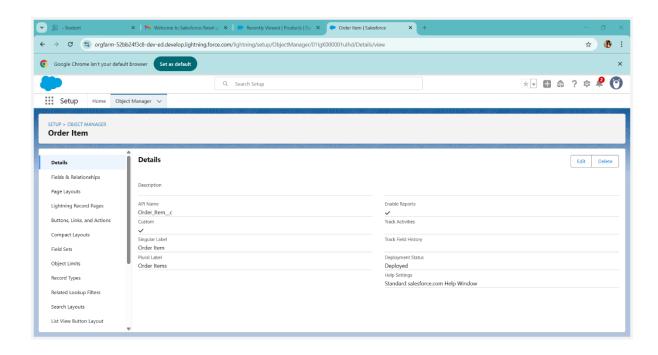
Account activation:

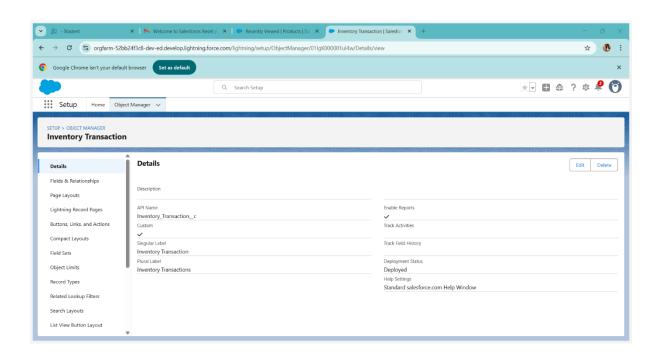


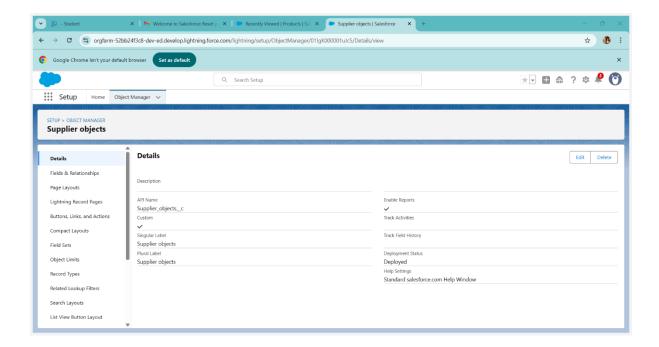
- Creating a Product object
- Creating a tab for Product object, Purchase Order, Order Item, Inventory Transaction, Supplier



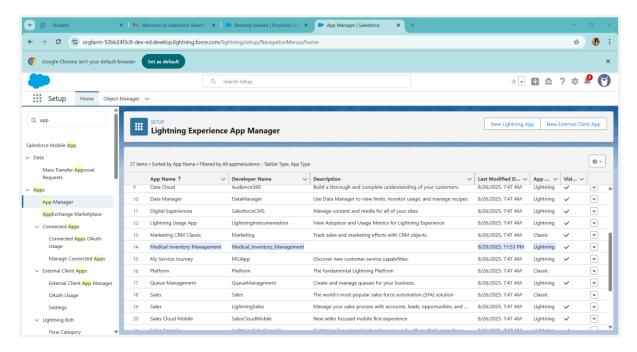




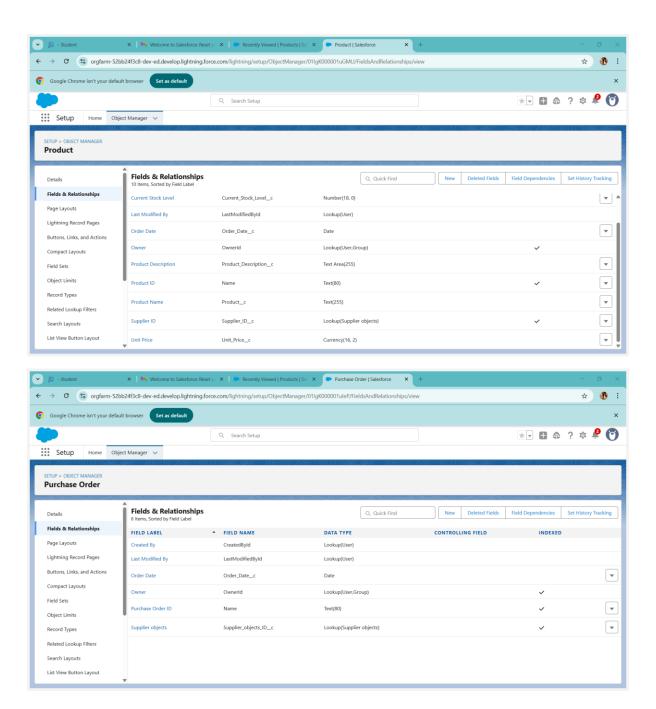


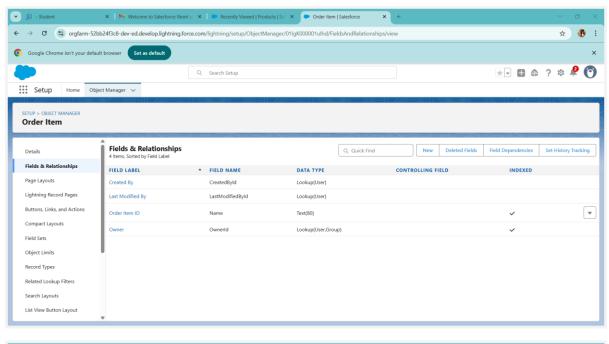


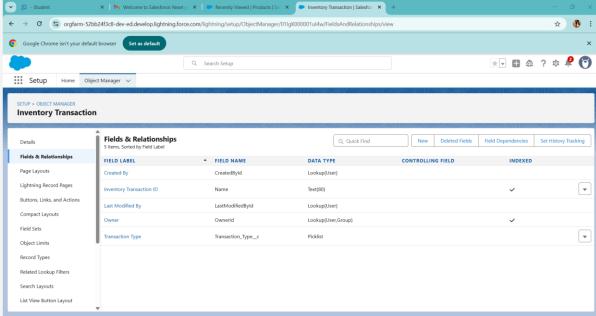
• Create a Lightning App for Medical Inventory Management:

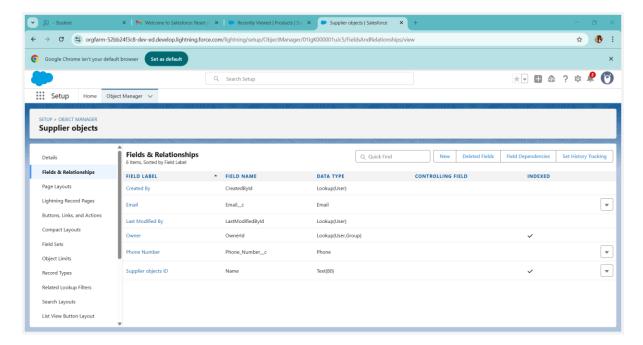


• Creating a fields:

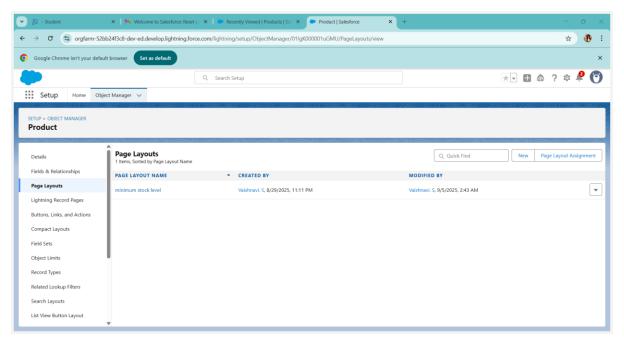


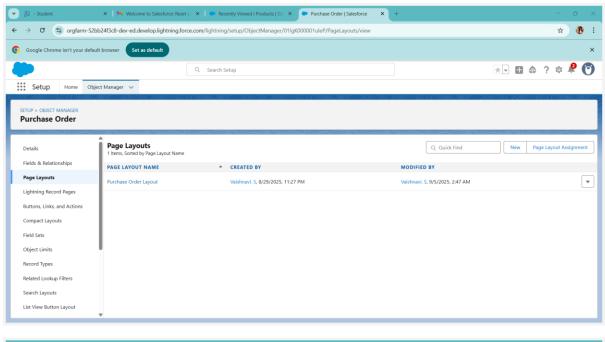


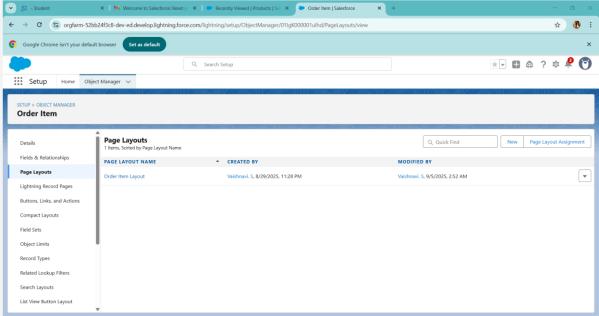


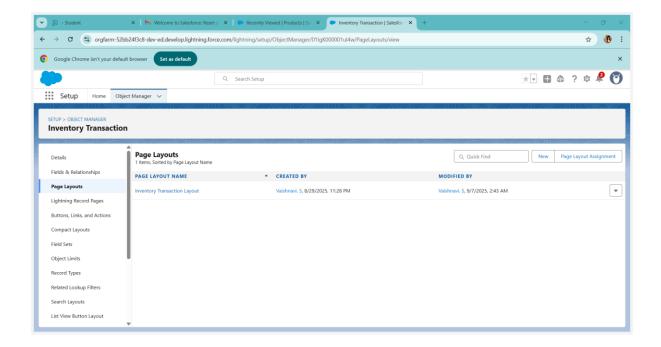


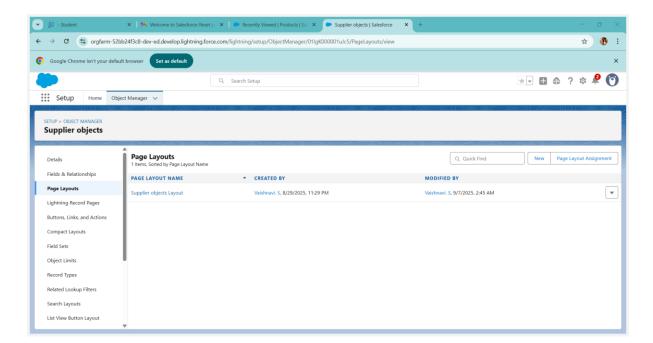
• Editing of page layouts:



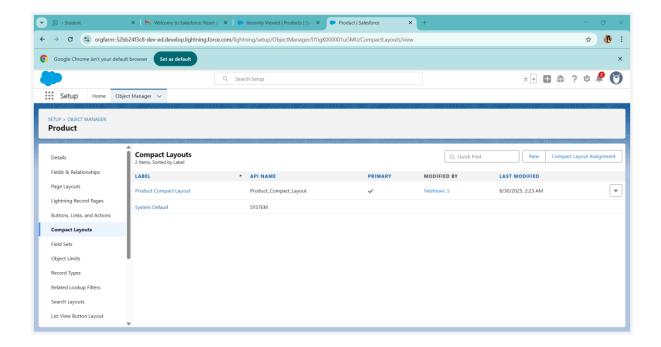


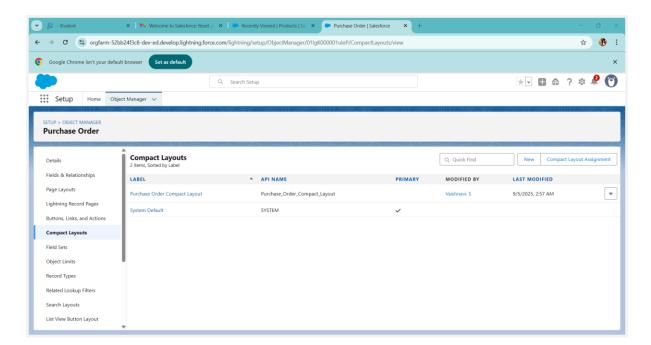




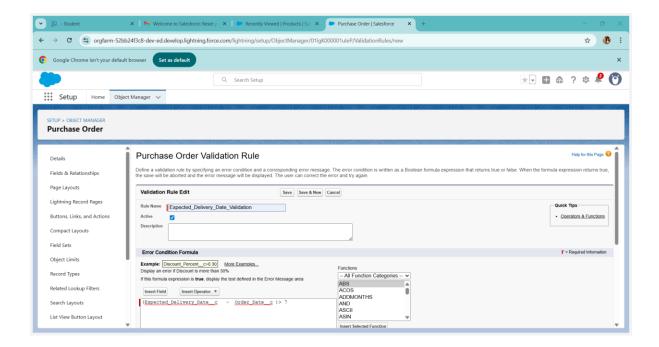


Creating a compact layout:

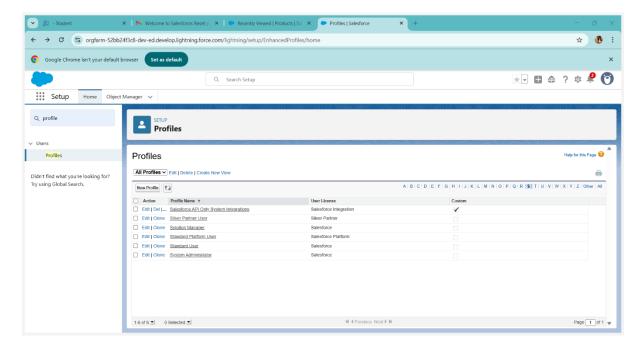




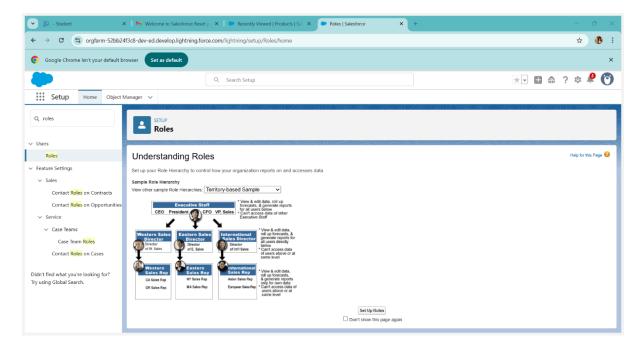
Validation Rules in Purchasing order object:



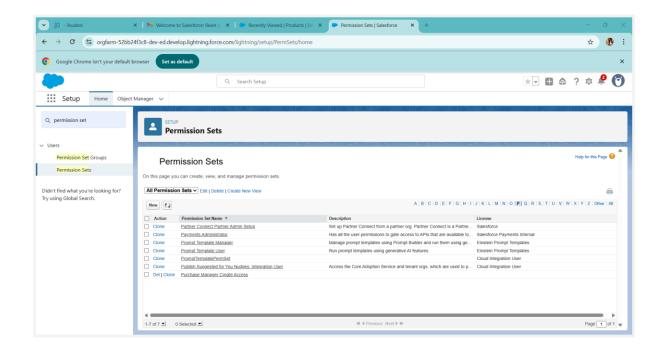
Profiles



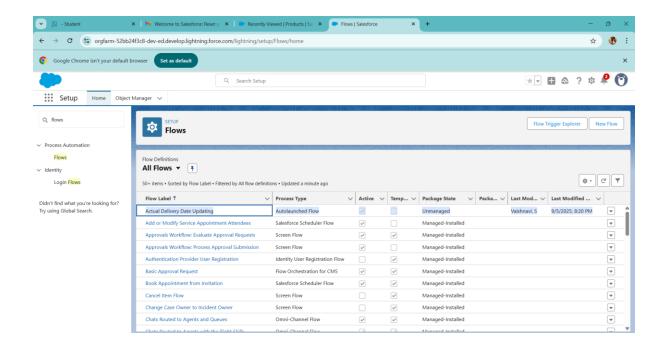
Roles for creating a purchasing manager:



Create a permission set:



Create Flow to update the Actual Delivery Date:



Create a Trigger to Calculate total amount on Order Item:

Create an Apex Trigger:

```
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);
}
```

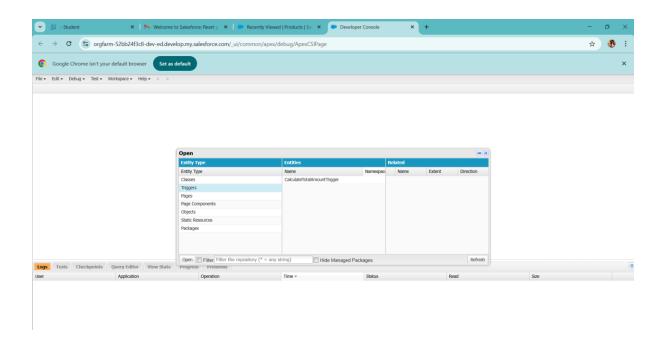
CalculateTotalAmountHandler

public class CalculateTotalAmountHandler {

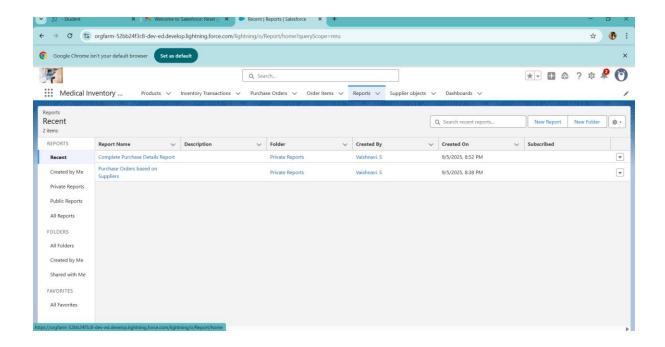
// Method to calculate the total amount for Purchase Orders based on related Order Items

public static void calculateTotal(List<Order_Item_c> newItems, List<Order_Item_c> oldItems, Boolean isInsert, Boolean isUpdate, Boolean isUpdate, 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 guery 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
     1:
     // Map the result to Purchase Order IDs
      for (AggregateResult aggr: aggrList) {
        Id purchaseOrderId = (Id)aggr.get('Purchase_Order_Id__c');
        Decimal totalAmount = (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;
     }
   }
 }
```



Reports



Dashboards:

