MEDICAL INVENTORY

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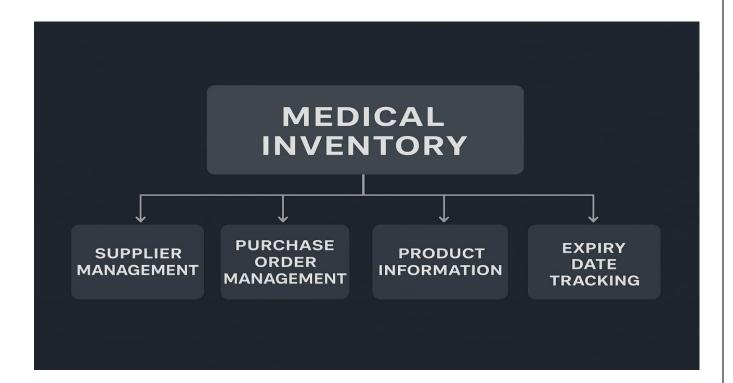
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1.INTRODUCTION

1.1 Project Overview

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.



1.2 Purpose

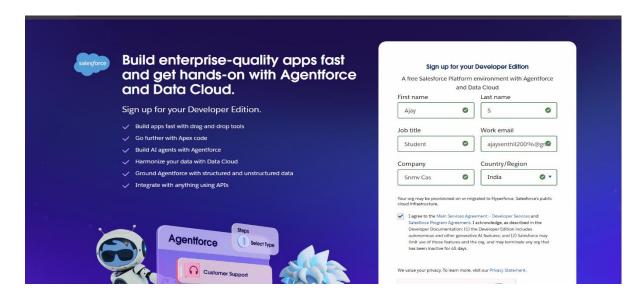
This project is a comprehensive Salesforce application to streamline and manage various operational aspects of medical inventory. The system aims to efficiently maintain supplier details, manage purchase orders, track product details and transactions, and

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.

DEVELOPMENT PHASE

Creating Developer Account:

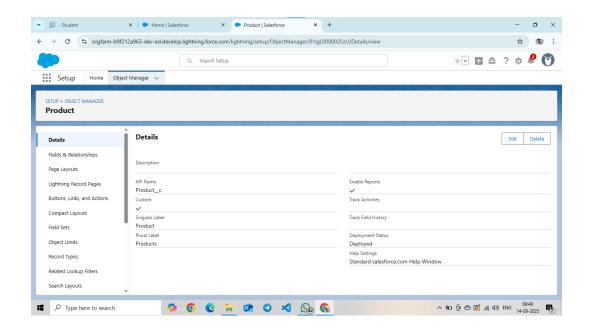
By using this URL - https://developer.salesforce.com/signup

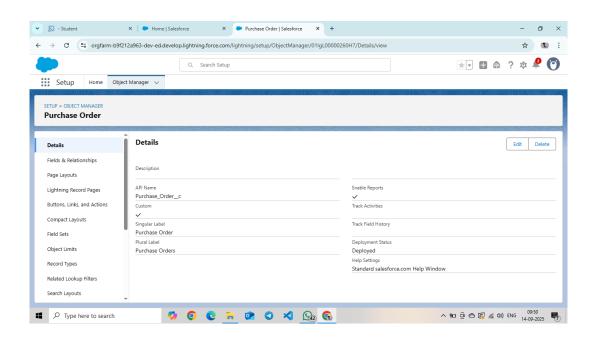


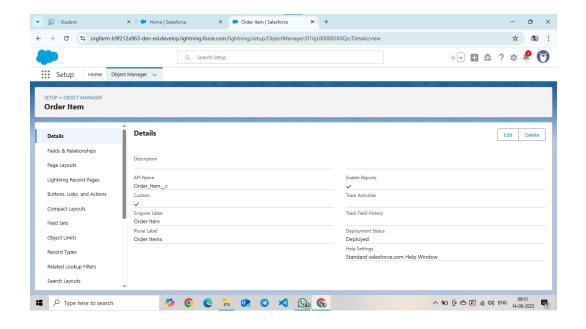
OBJECT:

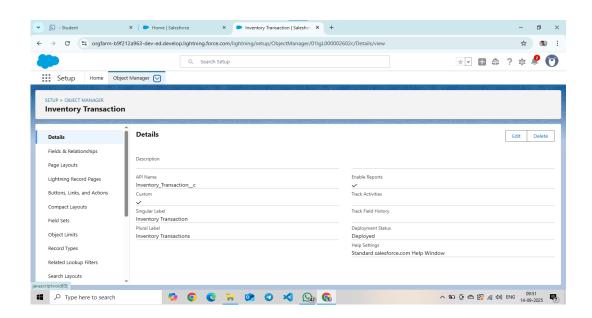
Created Objects:

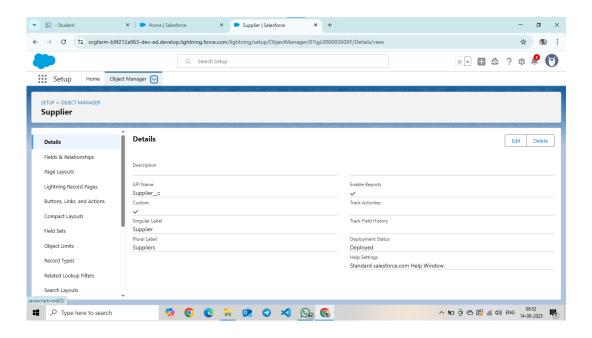
- **✓** Product
- ✓ Purchase Order
- ✓ Order Item
- ✓ Inventory Transaction
- **✓** Supplier



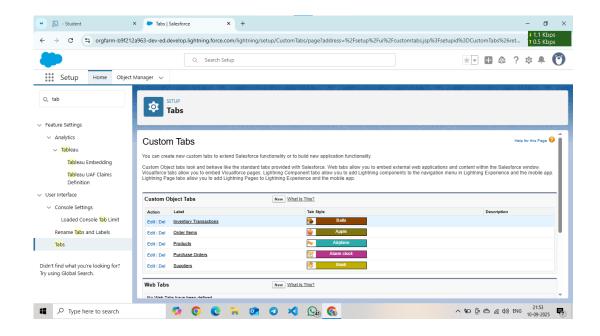




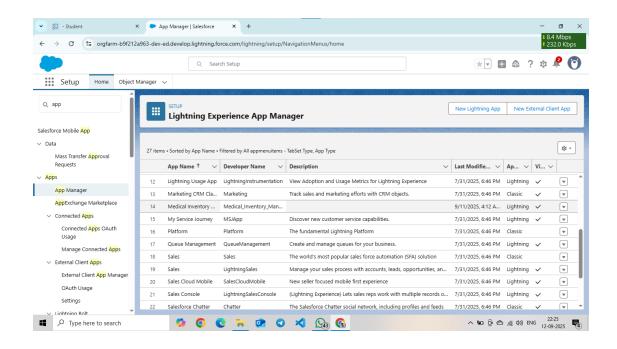




Created Tabs:

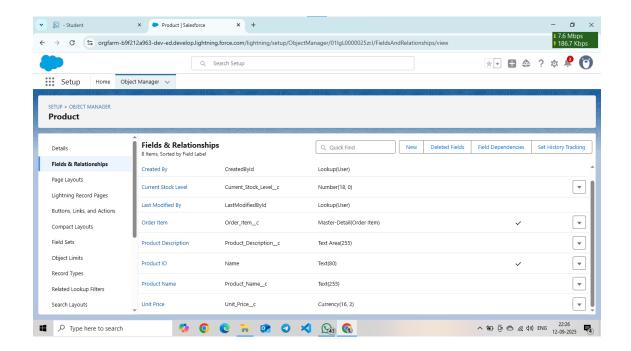


Created a Lightning App

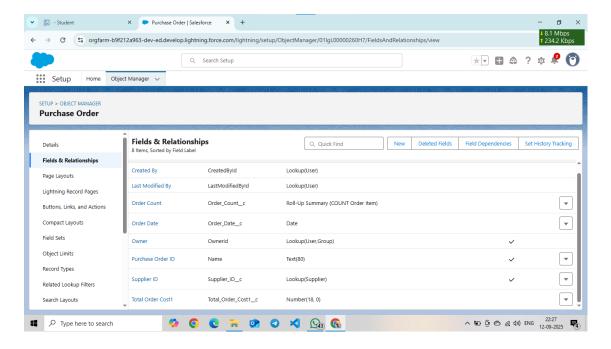


FIELDS:

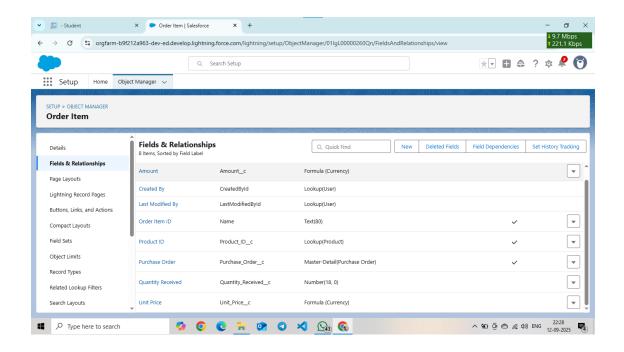
Creation of fields for the Product object:



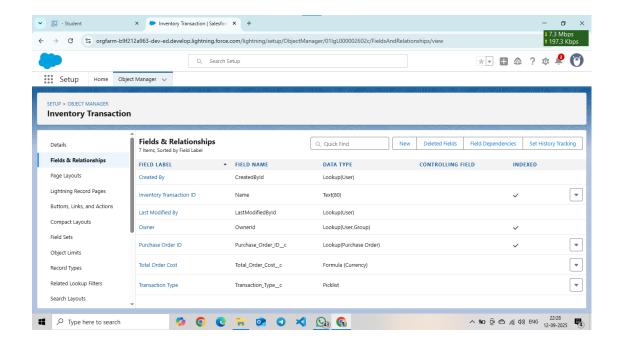
Creation of fields for the Purchase Order object



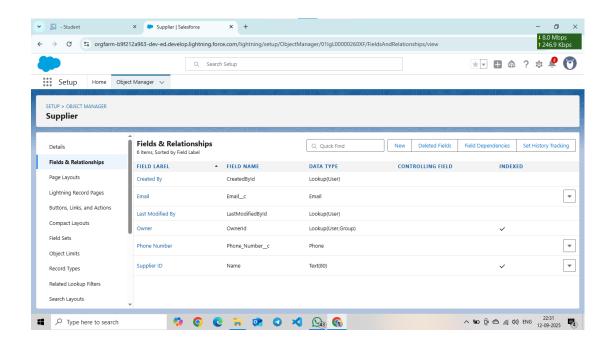
Creation of fields for the Order Item object



Creation of fields for the Inventory Transaction Object



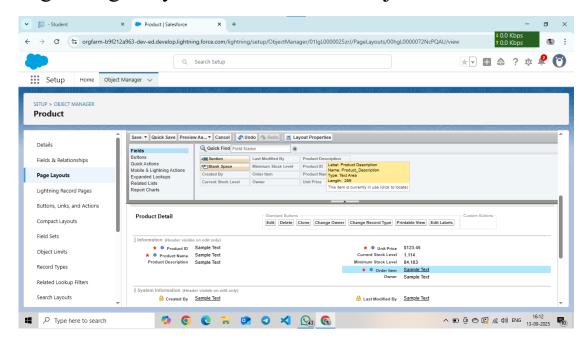
Creation of fields for the Supplier object



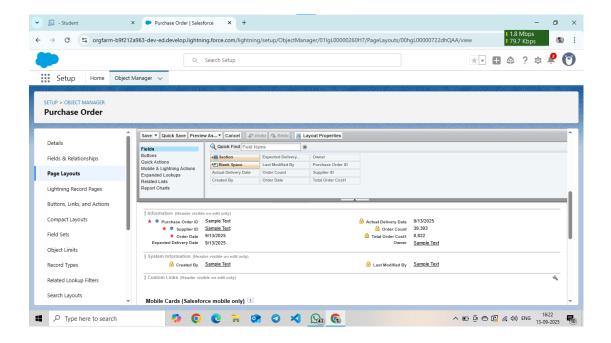
Page Layouts;

Editing of Page Layouts:

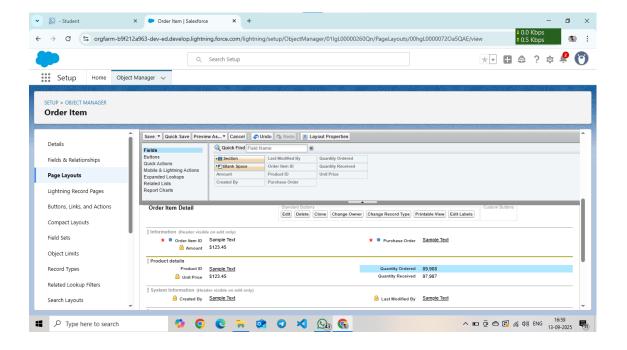
Editing of Page Layout for the Product object



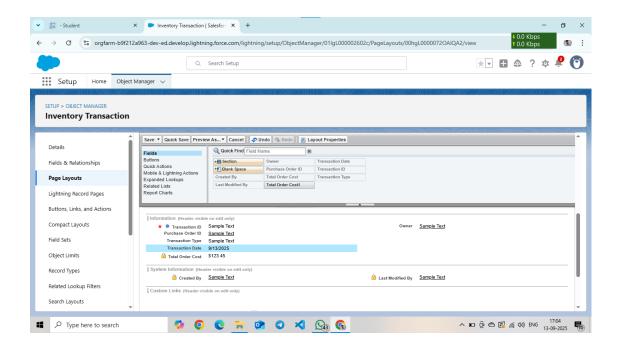
Editing of Page Layout for the Purchase Order object



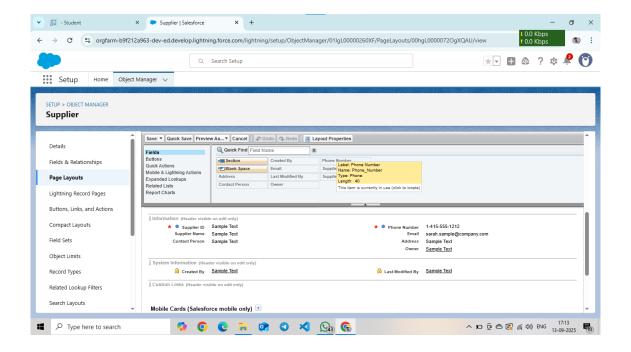
Editing of Page Layout for the Order Item object



Editing of Page Layout for the Inventory Transaction object

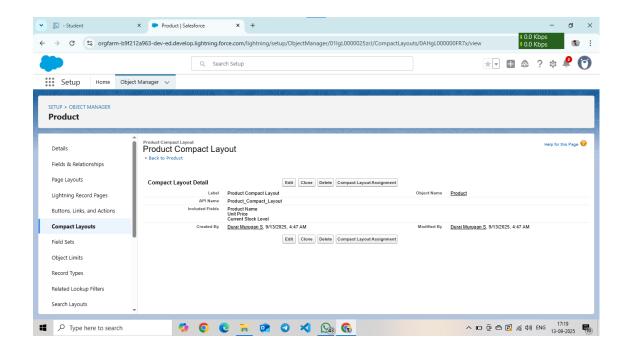


Editing of Page Layout for the Supplier object

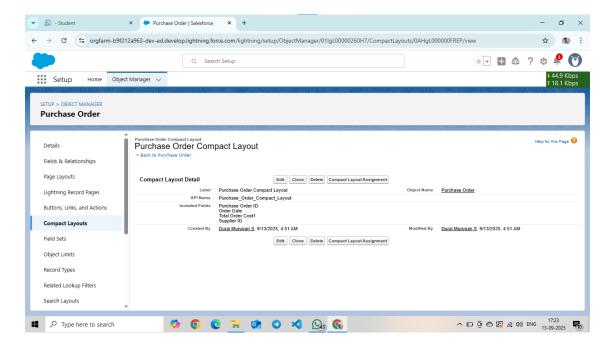


Compact Layouts

Created a Compact Layout for the Product Object

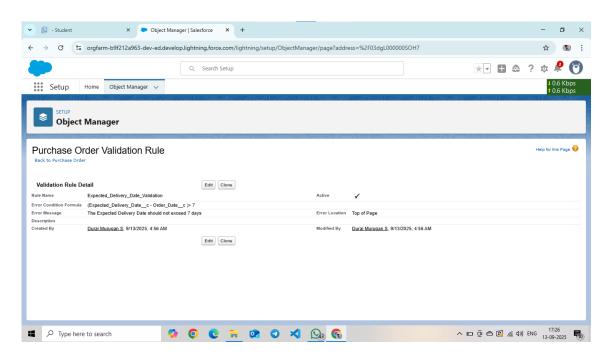


Created a Compact Layout for the Purchase Order Object



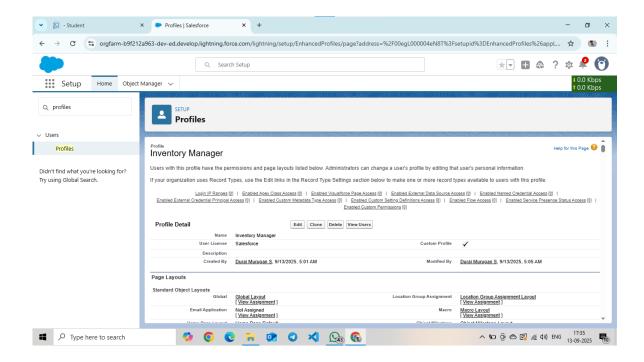
Validation Rules

Created an Expected Delivery Date Validation rule to an Employee Object

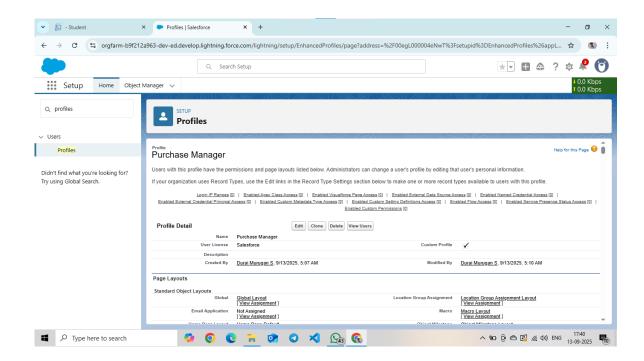


Profiles

Created an Inventory Manager Profile

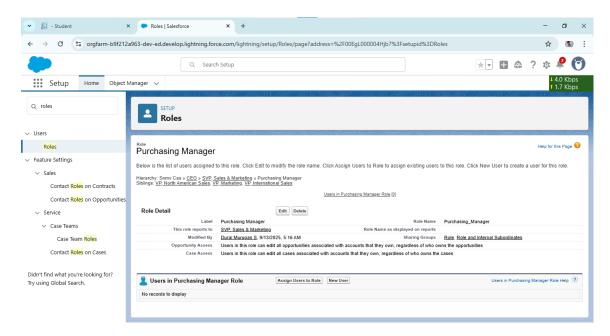


Created a Purchase Manager Profile

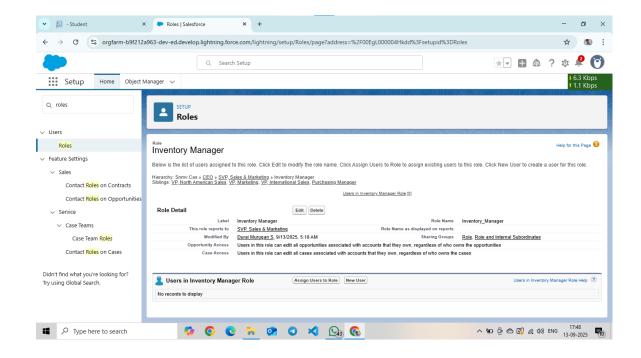


Roles

Created a Purchasing Manager Role (Purchasing Manager)

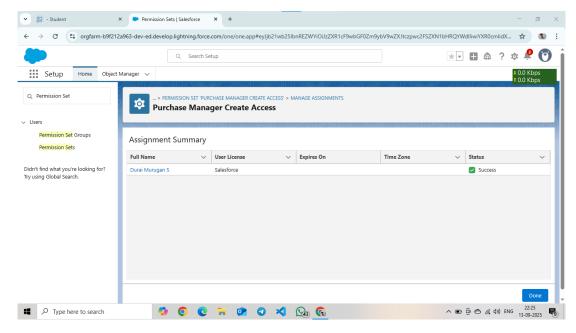


Created a Purchasing Manager Role (Inventory Manager)



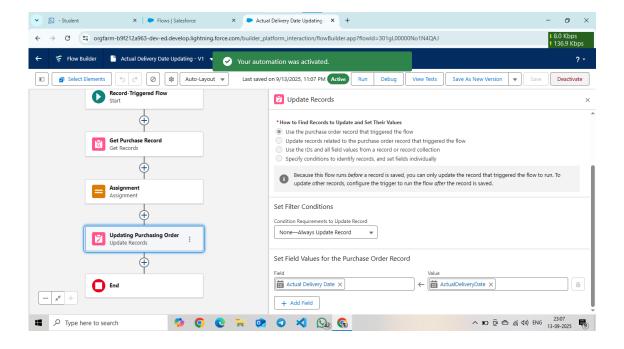
Permission Sets

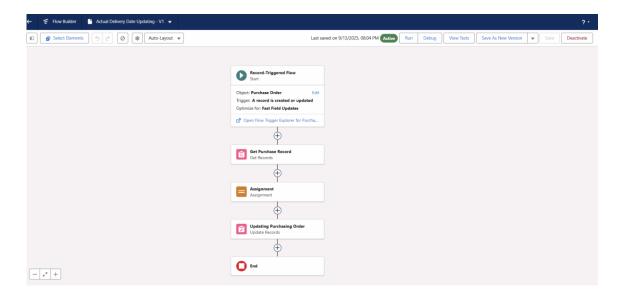
Create a Permission Set



Flows

Created Flow to update the Actual Delivery Date





Triggers

Create an Apex Trigger

```
| File - Edit - Debug - Test - Workspace - Help - < | Colorable to Tabla Manusur Trigger aged * | Colorable to Tabla Manusur Trigger - AFT Ventors | AFT Ven
```

Coding

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);

}

Create an Apex Class

Coding

public class CalculateTotalAmountHandler

```
public\ static\ void\ calculate Total (List < Order\_Item\_c > new Items,\ List < Order\_Item\_c > old Items,\ Boolean\ is Undate,\ Boolean\ is Undate,\ Boolean\ is Undate)\ \{
```

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

if (isInsert || isUpdate || isUndelete) {

for (Order_Item__c ordItem : newItems) {

parentIds.add(ordItem.Purchase_Order_Id__c);
}

if (isUpdate || isDelete) {

for (Order_Item__c ordItem : oldItems) {

parentIds.add(ordItem.Purchase_Order_Id__c);
}

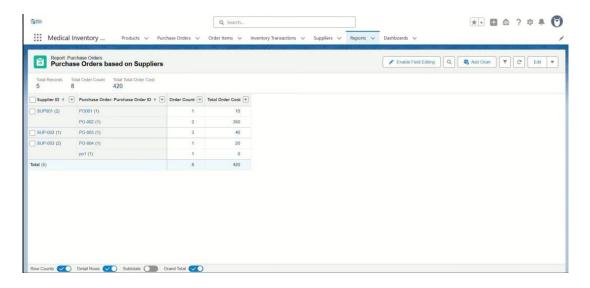
Map<Id, Decimal> purchaseToUpdateMap = new Map<Id, Decimal>();

if (!parentIds.isEmpty()) {
```

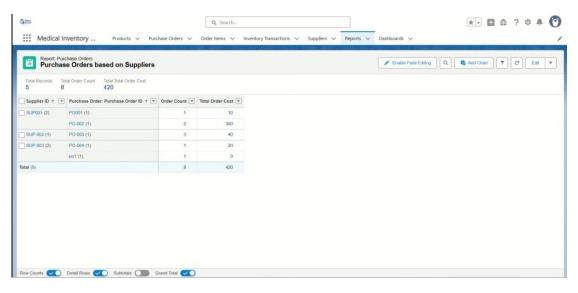
```
List<AggregateResult> aggrList = [
       SELECT Purchase_Order_Id__c, SUM(Amount__c) totalAmount
       FROM Order_Item_c
       WHERE Purchase Order Id c IN :parentIds
       GROUP BY Purchase_Order_Id__c
     ]:
     for (AggregateResult aggr : aggrList) {
       Id purchaseOrderId = (Id)aggr.get('Purchase_Order_Id__c');
       Decimal totalAmount = (Decimal)aggr.get('totalAmount');
       purchaseToUpdateMap.put(purchaseOrderId, totalAmount);
     }
List<Purchase Order c> purchaseToUpdate = new List<Purchase Order c>();
     for (Id purchaseOrderId : purchaseToUpdateMap.keySet()) {
purchaseToUpdate.add(purchaseOrder);
     if (!purchaseToUpdate.isEmpty()) {
       update purchaseToUpdate;
```

Reports

Created a Purchase Orders based on Suppliers (Summary) Report

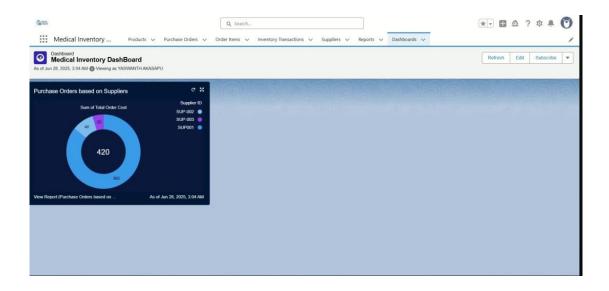


Created a Complete Purchase Details Report



Dashboards

Creation and view of Dashboard



Conclusion

The Salesforce-based Medical Inventory Management System successfully streamlines and automates the key operational aspects of medical inventory. By integrating supplier management, purchase order tracking, product cataloging, and expiry date monitoring, the system ensures accuracy, efficiency, and reliability in handling medical supplies. It reduces the risk of errors, prevents the use of expired products, and enhances decision-making through comprehensive reports and analytics. Overall, this project demonstrates how Salesforce can be effectively utilized to improve healthcare inventory operations, contributing to better resource management and patient safety.