_______________DMart Case Study_______________

Develop a customized “DMart” (*retail*) application on the Salesforce platform.

This application is supposed to provide solution to automate complete buying and selling process of DMart & following processes to reduce manual efforts and time.

Type of Users:

1. Merchandise User
2. Sales User
3. Support Users (2 Teams – one for India & the other for US)
4. CEO

This application is going to use mainly 3 custom objects for end to end automation of DMart application. Below are the 3 Objects and its purpose.

Objects:

1) Merchandise: the purpose of this object is to track purchase of products/items for DMart.
2) Sell Item: the purpose of this object is to sell the products/items to customers.
3) Invoice: the purpose of this object is to raise the Invoice whenever we are selling the products/items to customers.

Custom Objects:

1. Merchandise:
    a. Merchandise Name - Text
    b. Merchandise Desc - Textarea
    c. Merchandise Stock – Number (*to indicate quantity)
    d. Merchandise Price – Currency

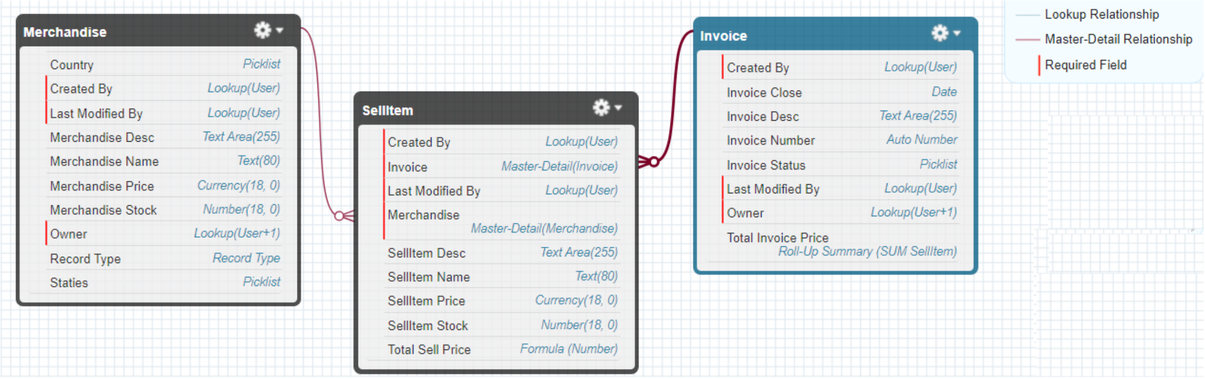
   e. Merchandise Country – Picklist(IND/USA)
   f. Merchandise States – Picklist(UP/MP/NY/NJ)

2. Sell Item:
   a. SellItem Name - Text
   b. SellItem Desc - Textarea
   c. SellItem Stock – Number (*to indicate quantity)
   d. SellItem Price – Currency
   e. Total SellItem Price: formula field (SellItem.Stock * SellItem.Price)
3. Invoice:
   a. Invoice Number – Auto Number
   b. Invoice Desc - Textarea
   c. Invoice Status - Picklist(Open/Closed/Finalized/Bargain)
   d. Invoice Close Date – Date
   e. Invoice Total Price – Roll-up Summery (Sum of “Total SellItem Price” from SellItem Object)

Note: Here we have to launch Merchandise and Invoice Object as a TAB whereas Sell Item Object should not as it’s a dependent Object of Merchandise as well as Invoice too as it will act as a junction object you will find it into related list to Merchandise and Invoice.

Relationships among Objects as below:

ERD:



Merchandise	
Country	Picklist
Created By	Lookup(User)
Last Modified By	Lookup(User)
Merchandise Desc	Text Area(255)
Merchandise Name	Text(80)
Merchandise Price	Currency(18, 0)
Merchandise Stock	Number(18, 0)
Owner	Lookup(User+1)
Record Type	Record Type
Staties	Picklist

SellItem	
Created By	Lookup(User)
Invoice	Master-Detail(Invoice)
Last Modified By	Lookup(User)
Merchandise	Master-Detail(Merchandise)
SellItem Desc	Text Area(255)
SellItem Name	Text(80)
SellItem Price	Currency(18, 0)
SellItem Stock	Number(18, 0)
Total Sell Price	Formula (Number)

Invoice	
Created By	Lookup(User)
Invoice Close	Date
Invoice Desc	Text Area(255)
Invoice Number	Auto Number
Invoice Status	Picklist
Last Modified By	Lookup(User)
Owner	Lookup(User+1)
Total Invoice Price	Roll-Up Summary (SUM SellItem)

Use Cases:

1) At the time of buying the product from Merchandise object, Merchandise States should be dependent to Merchandise Country when Merchandise User is selecting Merchandise Country as IND then UP/MP states should be populated else if Country is USA then States should be NY/NJ.
2) Selling Stock should not be greater than merchandise Stock.
3) Please make sure your selling stock should also be reduced from Merchandise Stock whenever Sales user selling the items to customers from SellItem Object. *[do using Apex concepts – test class to have over 85% coverage]*
4) If the selling price should be greater than 50000 then there should be an email notification to CEO.
5) During the closing of the invoice with Invoice Status as “Closed”, please make sure invoice close date should not be blank.
6) Please make sure Invoice Object will show Invoice Total Price which is aggregate of Total SellItem price from SellItem Object.
7) Whenever we are selling the stock more than 10000, it should go to the Manager for approval.
8) Only Merchandise User can create/edit the record into Merchandise Object.
9) Only Sales User can create/update the records into SellItem Object
10) Only Support user can delete the record from the Merchandise/SellItem Object.
11) Visibility of Case records in the 2 Support Teams should be based on hierarchy. One Support user should only see his\her own cases. There is 1 support user who is also a manager for both Support teams. This manager should be able to see cases from both teams.
12) Only Support User can reopen the Invoice.

13) Not to be implemented, BUT: understand and prepare a presentation on how the objectives stated in this case study for Merchandise \ Invoices \ Sell Item can be achieved using Accounts \ Contacts & standard object in place of the proposed custom objects.

14) Sales reports to show:

a. Compare Revenue with Current year vs Pervious year
b. Top 10 Brand products by sales
c. Invoice Report

15) Dashboard to show visual representation of above reports. It should display the data I the reports specific to the logged in user.

16) Create Home Page for the Dmart App. This should have the dashboard you created above and another component using which a user can first select any merchandise from a list of merchandises and then in the next screen enter a discount percentage. Once submitted, the price of the merchandise should be reduced by the discount percentage specified. Also the Description field of all SellItems for this Merchandise should now also have this text appended "This item was sold with an old price!" (*use screen based flow for this component*).

17) Have a button on the Invoice record page that when clicked will create & open a PDF of the invoice. Implement with LWC and use Parent – Child relationship between 2 components.

18) Create a single page application using LWC for Merchandise using which a user can Add, Search, Delete, Show merchandise records. Implement Modals, Apex, LDS, Pagination & Data Table.

19) Integration - To integrate with legacy systems and any external systems with REST API **[NOT TO BE DONE BY YP TRAINEES]**