

CRM APPLICATION FOR JEWEL MANAGEMENT

College Name : KG COLLEGE OF ARTS AND SCIENCE

Team ID : NM2025MID23642

Team size :

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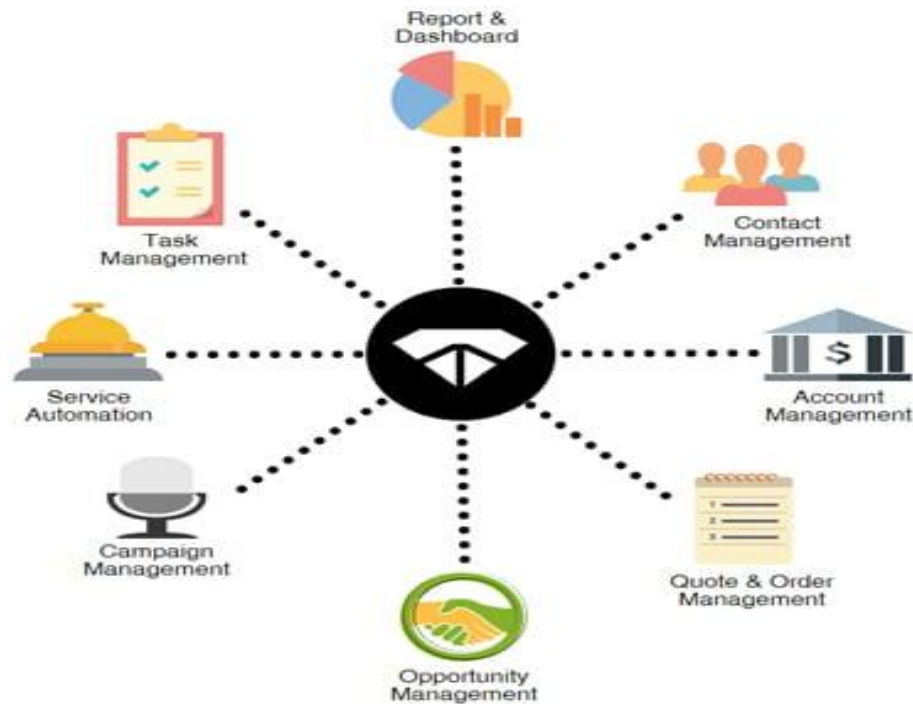
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1.INTRODUCTION

1.1 Project Overview

The CRM system for jewelry management integrates customer data with product details, sales, inventory, and marketing campaigns to enhance the customer experience and drive business growth. It allows jewelry stores or manufacturers to manage their operations more effectively, improve customer satisfaction, and maximize sales.



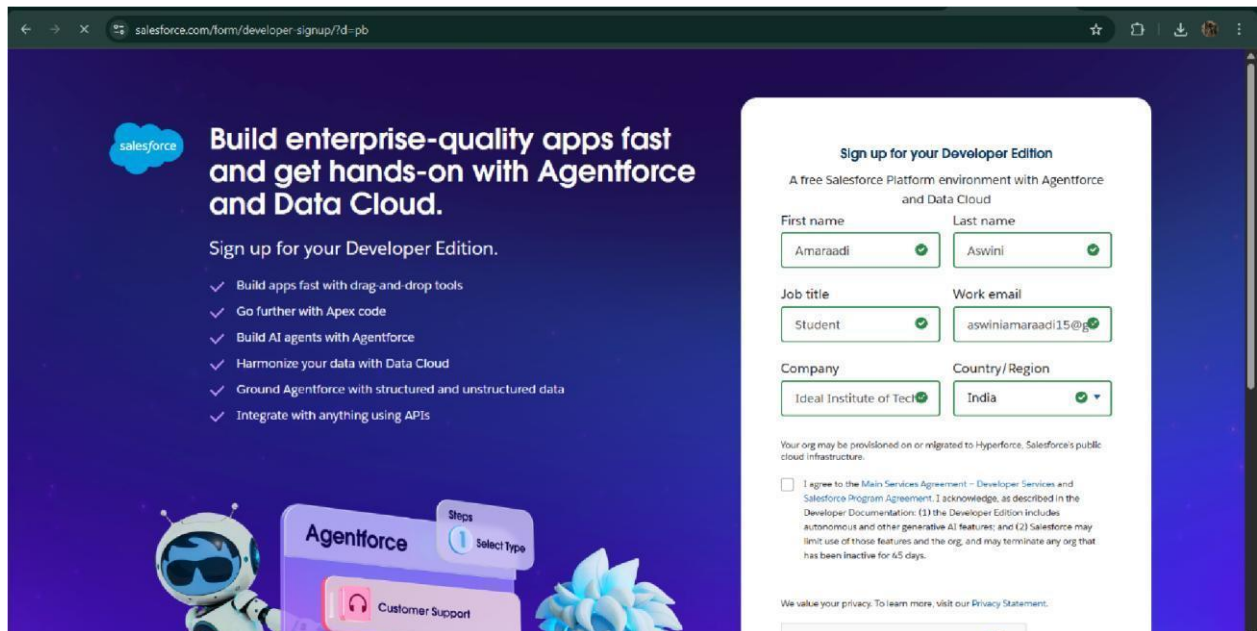
1.2 Purpose

The purpose of a **CRM Application for Jewelry Management** is to streamline and enhance the overall operations of a jewelry business while improving the relationship with its customers. By tracking customer preferences, purchase history, and interactions, the CRM allows businesses to provide more personalized services and offers.

2.DEVELOPMENT PHASE

Creating Developer Account:

By using this URL - <https://www.salesforce.com/form/developer/signup/?d=pb>



The screenshot shows the Salesforce Developer Edition signup page. The left side features a dark blue background with the Salesforce logo and the text "Build enterprise-quality apps fast and get hands-on with Agentforce and Data Cloud." Below this, it says "Sign up for your Developer Edition." and lists five benefits: "Build apps fast with drag-and-drop tools", "Go further with Apex code", "Build AI agents with Agentforce", "Harmonize your data with Data Cloud", and "Ground Agentforce with structured and unstructured data". At the bottom of this section is an illustration of a robot and a "Customer Support" button.

The right side contains the "Sign up for your Developer Edition" form. It includes fields for "First name" (Amaraadi), "Last name" (Aswini), "Job title" (Student), "Work email" (aswiniamaraadi15@gmail.com), "Company" (Ideal Institute of Tech), and "Country/Region" (India). Below these fields is a checkbox for "I agree to the Main Services Agreement - Developer Services and Salesforce Program Agreement." and a link to the "Privacy Statement".

- Created objects: Involve creating various objects (entities) that represent different aspects of the jewelry business.

Creating jewel object :

This screenshot shows the Salesforce Setup interface for the 'Item' object. The browser address bar displays the URL: `orgfarm-9f9df8e412-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01IgK000001yt1p/Details/view`. The page title is 'Item' under the 'Object Manager' section. The left sidebar contains a navigation menu with the following items: 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, and Scoping Rules. The main content area is titled 'Details' and includes an 'Edit' button and a 'Delete' button. The 'Details' section is divided into two columns. The left column contains the following fields: Description, API Name (Item__c), Custom (checked), Singular Label (Item), and Plural Label (Items). The right column contains the following fields: Enable Reports (checked), Track Activities, Track Field History, Deployment Status (Deployed), Help Settings, and a link to the Standard salesforce.com Help Window. The bottom of the screen shows a Windows taskbar with various application icons and a system tray with the date and time (19:31 17-09-2025).

Setup > OBJECT MANAGER
Item

Details [Edit] [Delete]

Description

API Name
Item__c

Custom
✓

Singular Label
Item

Plural Label
Items

Enable Reports
✓

Track Activities

Track Field History

Deployment Status
Deployed

Help Settings
Standard salesforce.com Help Window

This is a duplicate of the screenshot above, showing the same Salesforce Setup interface for the 'Item' object. The browser address bar displays the URL: `orgfarm-9f9df8e412-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01IgK000001yt1p/Details/view`. The page title is 'Item' under the 'Object Manager' section. The left sidebar contains a navigation menu with the following items: 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, and Scoping Rules. The main content area is titled 'Details' and includes an 'Edit' button and a 'Delete' button. The 'Details' section is divided into two columns. The left column contains the following fields: Description, API Name (Item__c), Custom (checked), Singular Label (Item), and Plural Label (Items). The right column contains the following fields: Enable Reports (checked), Track Activities, Track Field History, Deployment Status (Deployed), Help Settings, and a link to the Standard salesforce.com Help Window. The bottom of the screen shows a Windows taskbar with various application icons and a system tray with the date and time (19:31 17-09-2025).

Setup > OBJECT MANAGER
Item

Details [Edit] [Delete]

Description

API Name
Item__c

Custom
✓

Singular Label
Item

Plural Label
Items

Enable Reports
✓

Track Activities

Track Field History

Deployment Status
Deployed

Help Settings
Standard salesforce.com Help Window

Creating a custom tab :

The screenshot shows the Salesforce Setup interface for Custom Tabs. The left sidebar contains a search bar with 'tabs' and a list of navigation items: 'User Interface', 'Rename Tabs and Labels', and 'Tabs' (which is selected). Below the sidebar is a message: 'Didn't find what you're looking for? Try using Global Search.' The main content area is titled 'Custom Tabs' and includes a sub-header 'You can create new custom tabs to extend Salesforce functionality or to build new application functionality.' Below this, there are three sections: 'Custom Object Tabs', 'Web Tabs', and 'Visualforce Tabs'. The 'Custom Object Tabs' section contains a table with columns 'Action', 'Label', 'Tab Style', and 'Description'. The table lists five tabs: 'Billings' (Circle style), 'Customer Orders' (Can style), 'Items' (Sun style), 'Jewel Customers' (Moon style), and 'Prices' (Fun style). The 'Web Tabs' and 'Visualforce Tabs' sections both state 'No Web Tabs have been defined' and 'No Visualforce Tabs have been defined' respectively. The bottom of the screen shows a Windows taskbar with various application icons and a system clock indicating 19:34 on 17-09-2025.

Setup Home Object Manager

Search Setup

Custom Tabs

You can create new custom tabs to extend Salesforce functionality or to build new application functionality.

Custom Object tabs look and behave like the standard tabs provided with Salesforce. Web tabs allow you to embed external web applications and content within the Salesforce window. Visualforce tabs allow you to embed Visualforce pages. Lightning Component tabs allow you to add Lightning components to the navigation menu in Lightning Experience and the mobile app. Lightning Page tabs allow you to add Lightning Pages to Lightning Experience and the mobile app.

Custom Object Tabs New What Is This?

Action	Label	Tab Style	Description
Edit Del	Billings	Circle	
Edit Del	Customer Orders	Can	
Edit Del	Items	Sun	
Edit Del	Jewel Customers	Moon	
Edit Del	Prices	Fun	

Web Tabs New What Is This?

No Web Tabs have been defined

Visualforce Tabs New What Is This?

No Visualforce Tabs have been defined

19:34 17-09-2025

The screenshot shows the Salesforce Setup interface for the 'Custom Tab Definition Detail' of the 'Items' tab. The left sidebar is identical to the previous screenshot, with 'Tabs' selected. The main content area is titled 'Custom Object Tab Items' and includes a sub-header 'Below is the information for the custom tab. Click Edit to change the custom tab.' Below this, there is a section 'Custom Tab Definition Detail' with a table containing the following information: 'Tab Label' (Items), 'Object' (Item), 'Description' (Item), 'Created By' (KEERTHANA.R, 9/1/2025, 10:33 PM), 'Tab Style' (Sun), 'Splash Page Custom Link', and 'Modified By' (KEERTHANA.R, 9/1/2025, 10:33 PM). The bottom of the screen shows a Windows taskbar with various application icons and a system clock indicating 19:35 on 17-09-2025.

Setup Home Object Manager

Search Setup

Custom Object Tab Items

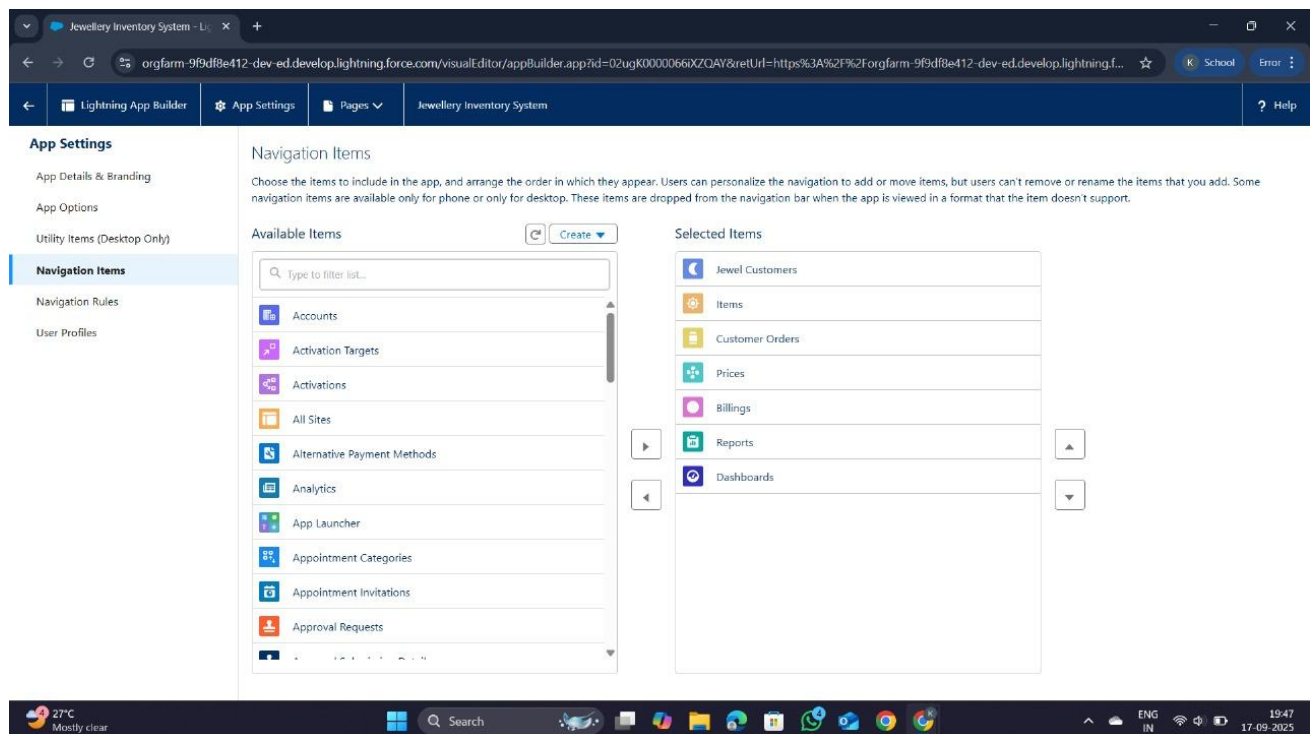
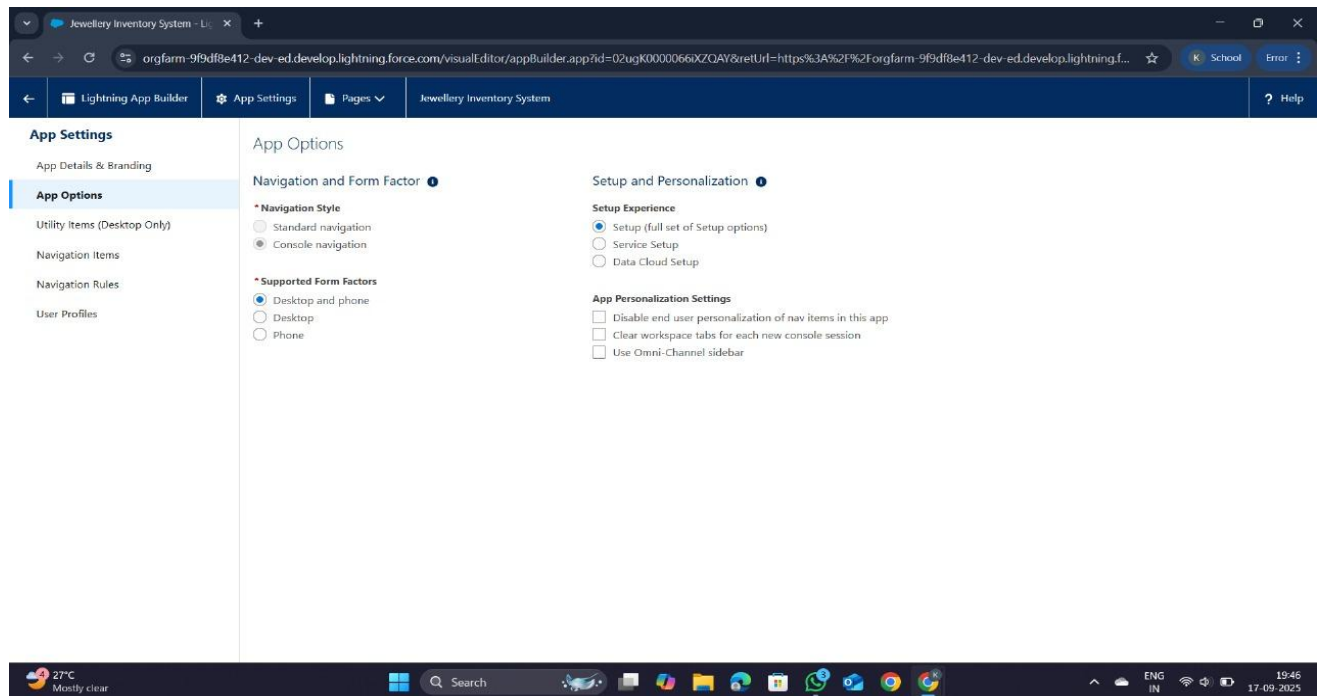
Below is the information for the custom tab. Click Edit to change the custom tab.

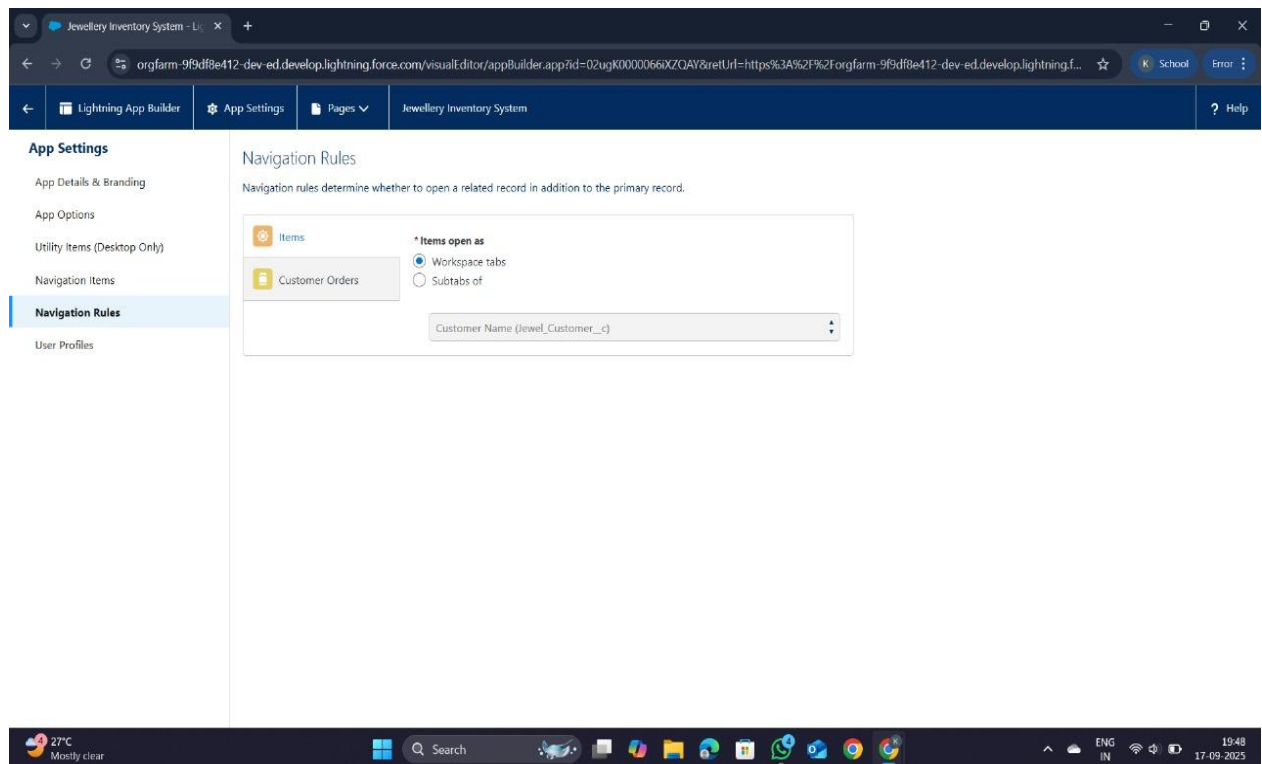
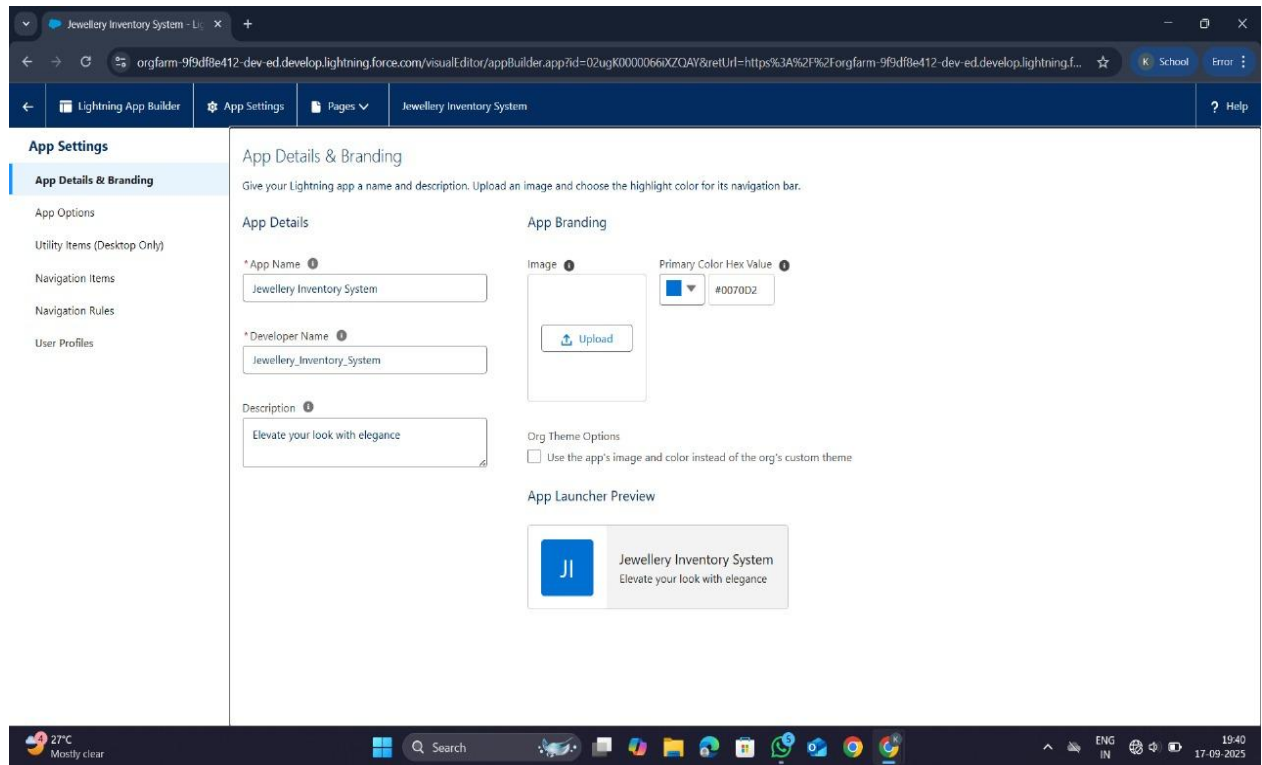
Custom Tab Definition Detail Edit Delete

Tab Label	Object	Description	Created By	Tab Style	Splash Page Custom Link	Modified By
Items	Item	Item	KEERTHANA.R, 9/1/2025, 10:33 PM	Sun		KEERTHANA.R, 9/1/2025, 10:33 PM

19:35 17-09-2025

Creating a lightning app :





Creating Lookup-relationship and creating a master-detail relationship :

The screenshot shows the Salesforce Setup interface for the 'Customer Order' object. The 'Fields & Relationships' tab is selected, displaying a list of 5 fields sorted by field label. The fields are:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Customer	Customer_c	Lookup(Jewel Customer)		✓
Item	Item_c	Master-Detail(Item)		✓
Last Modified By	LastModifiedById	Lookup(User)		
Order Id	Name	Auto Number		✓

The left sidebar shows the navigation menu with 'Fields & Relationships' highlighted. The top navigation bar includes 'Setup', 'Home', and 'Object Manager'. The bottom status bar shows the system time as 19:58 on 17-09-2025.

Creating Text field in jewel customer object :

The screenshot shows the Salesforce Setup interface for the 'Jewel Customer' object, specifically the 'Custom Field Definition Detail' page for a new text field named 'City'. The page includes the following information:

Field Information

Field Label	Field Name	Object Name
City	City_c	Jewel Customer

General Options

Option	Value
Required	<input type="checkbox"/>
Unique	<input type="checkbox"/>
Case Sensitive	<input type="checkbox"/>
External ID	<input type="checkbox"/>
Default Value	

The page also shows the field's data type as 'Text' and the creator as 'KEERTHANA.R.' on 9/1/2025. The left sidebar shows the navigation menu with 'Fields & Relationships' highlighted. The top navigation bar includes 'Setup', 'Home', and 'Object Manager'. The bottom status bar shows the system time as 20:01 on 17-09-2025.

Creating the phone field in object jewel customer :

The screenshot shows the Salesforce Setup interface for the 'Jewel Customer' object. The 'Fields & Relationships' tab is selected, displaying the 'Phone' custom field definition. The field is configured with the following details:

Field Information		Object Name	Data Type
Field Label	Phone	Jewel Customer	Phone
Field Name	Phone		
API Name	Phone__c		
Description			
Help Text			
Data Owner			
Field Usage			
Data Sensitivity Level			
Compliance Categorization			
Created By	KEERTHANA.R. 9/1/2025, 11:00 PM	Modified By	KEERTHANA.R. 9/1/2025, 11:00 PM

General Options:

- Required: ☐
- Default Value:

Validation Rules: No validation rules defined.

Creating the Email field in object jewel customer :

The screenshot shows the Salesforce Setup interface for the 'Jewel Customer' object. The 'Fields & Relationships' tab is selected, displaying the 'Email' custom field definition. The field is configured with the following details:

Field Information		Object Name	Data Type
Field Label	Email	Jewel Customer	Email
Field Name	Email		
API Name	Email__c		
Description			
Help Text			
Data Owner			
Field Usage			
Data Sensitivity Level			
Compliance Categorization			
Created By	KEERTHANA.R. 9/1/2025, 11:01 PM	Modified By	KEERTHANA.R. 9/1/2025, 11:01 PM

General Options:

- Required: ☐
- Unique: ☐
- External ID: ☐
- Default Value:

Validation Rules: No validation rules defined.

Creating Picklist field in item object :

The screenshot shows the Salesforce Setup interface for configuring a custom field on the 'Item' object. The left sidebar contains navigation links: Details, Fields & Relationships (selected), 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, and Scoping Rules. The main content area is titled 'Item Custom Field Item Type' with a 'Back to Item' link. It includes tabs for 'Edit', 'Set Field-Level Security', 'View Field Accessibility', and 'Where is this used?'. The 'Field Information' section contains a table with the following data:

Field Label	Item Type	Object Name	Item Type
Field Name	Item_Type	Data Type	Picklist
API Name	Item_Type__c		
Description			
Help Text			
Data Owner			
Field Usage			
Data Sensitivity Level			
Compliance Categorization			
Created By	KEERTHANA.R. 9/1/2025, 11:05 PM	Modified By	KEERTHANA.R. 9/1/2025, 11:05 PM

The 'General Options' section includes a 'Required' checkbox (unchecked) and a 'Default Value' dropdown (set to 'i'). The 'Picklist Options' section includes a checkbox 'Restrict picklist to the values defined in the value set' (checked) and a 'Control Values Click Here' link.

Creating currency field in price object :

The screenshot shows the Salesforce Setup interface for configuring a custom field on the 'Price' object. The left sidebar contains navigation links: Details, Fields & Relationships (selected), 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, and Scoping Rules. The main content area is titled 'Price Custom Field Gold Price' with a 'Back to Price' link. It includes tabs for 'Edit', 'Set Field-Level Security', 'View Field Accessibility', and 'Where is this used?'. The 'Field Information' section contains a table with the following data:

Field Label	Gold Price	Object Name	Price
Field Name	Gold_Price	Data Type	Currency
API Name	Gold_Price__c		
Description			
Help Text			
Data Owner			
Field Usage			
Data Sensitivity Level			
Compliance Categorization			
Created By	KEERTHANA.R. 9/1/2025, 11:07 PM	Modified By	KEERTHANA.R. 9/1/2025, 11:07 PM

The 'General Options' section includes a 'Required' checkbox (unchecked) and a 'Default Value' dropdown (set to 'i'). The 'Currency Options' section includes a 'Length' field (set to 8) and a 'Decimal Places' field (set to 0).

The screenshot shows the Salesforce Setup interface for the 'Item' object. The left sidebar contains navigation options: Details, Fields & Relationships (selected), 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, and Scoping Rules. The main content area is titled 'Item Custom Field Gold Price' and includes a 'Back to Item' link. Below this, there are tabs for 'Custom Field Definition Detail' (selected), 'Set Field-Level Security', 'View Field Accessibility', and 'Where is this used?'. The 'Field Information' section displays the following details:

Field Label	Gold Price	Object Name	Item
Field Name	Gold_Price		
API Name	Gold_Price__c		
Description			
Help Text			
Data Owner			
Field Usage			
Data Sensitivity Level			
Compliance Categorization			
Created By	KEERTHANA R.	Modified By	KEERTHANA R.
	9/1/2025, 11:26 PM		9/1/2025, 11:26 PM

The 'Formula Options' section shows:

Data Type	Formula
Decimal Places	2
Formula	Prices__r Gold_Price__c / 10

- Formula field (cross object) in item object.

Creating remaining fields in objects :

The screenshot shows the Salesforce Setup interface for the 'Jewel Customer' object. The left sidebar contains navigation options: Details, Fields & Relationships (selected), 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, and Scoping Rules. The main content area is titled 'Jewel Customer' and includes a 'Quick Find' search bar and buttons for 'New', 'Deleted Fields', 'Field Dependencies', and 'Set History Tracking'. Below this, the 'Fields & Relationships' section displays a list of 11 items, sorted by Field Label:

Field Label	Field Name	Field Type	Field Length	Field Format	Field Dependencies	Field History Tracking
Country	Country__c	Text	18			
Created By	CreatedById	Lookup	(User)			
Customer Name	Name	Text	80		✓	
Email	Email__c	Email				
Last Modified By	LastModifiedById	Lookup	(User)			
Owner	OwnerId	Lookup	(User, Group)		✓	
Phone	Phone__c	Phone				
State	State__c	Text	20			
Street	Street__c	Text	20			
Zip/Postal code	Zip_Postal_code__c	Text	6			

Creating fields and relationships :

Item | Salesforce

orgfarm-9f9df8e412-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01lgK000001y1Lp/FieldsAndRelationships/view

Setup

Item

Details

Fields & Relationships

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Amount	Amount_c	Formula (Currency)		
Created By	CreatedBy	Lookup(User)		
Customer Name	Customer_Name_c	Lookup(Jewel Customer)		✓
Expected Days OK Return	Expected_Days_OK_Return_c	Picklist		
Item Id	Id	Text		
Item Name	Name	Text		✓
Item Type	Item_Type_c	Picklist		
Last Modified By	LastModifiedBy	Lookup(User)		
Marketing Channel	Marketing_Channel_c	Formula (Currency)		
Order Id	Order_Id	Text		
Order Status	Order_Status_c	Picklist		
Price	Price_c	Text		
Quantity	Quantity	Text		
Weight	Weight_c	Text		

Customer Order | Salesforce

orgfarm-9f9df8e412-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01lgK000001yM19/FieldsAndRelationships/view

Setup

Customer Order

Details

Fields & Relationships

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedBy	Lookup(User)		
Customer	Customer_c	Lookup(Jewel Customer)		✓
Item	Item_c	Master-Detail(Item)		✓
Last Modified By	LastModifiedBy	Lookup(User)		
Order Id	Name	Auto Number		✓
Order Status	Order_Status_c	Picklist		

Price | Salesforce

orgfarm-9f9df8e412-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01lgK000001yMZ/FieldsAndRelationships/view

Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER

Price

Details

Fields & Relationships
6 Items, Sorted by Field Label

Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Gold Price	Gold_Price__c	Currency(8, 0)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User Group)		✓
Price Id	Name	Auto Number		✓
Silver Price	Silver_Price__c	Currency(8, 5)		

27°C Light rain 20:53 17-09-2023

Billing | Salesforce

orgfarm-9f9df8e412-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01lgK000001yMl3/FieldsAndRelationships/view

Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER

Billing

Details

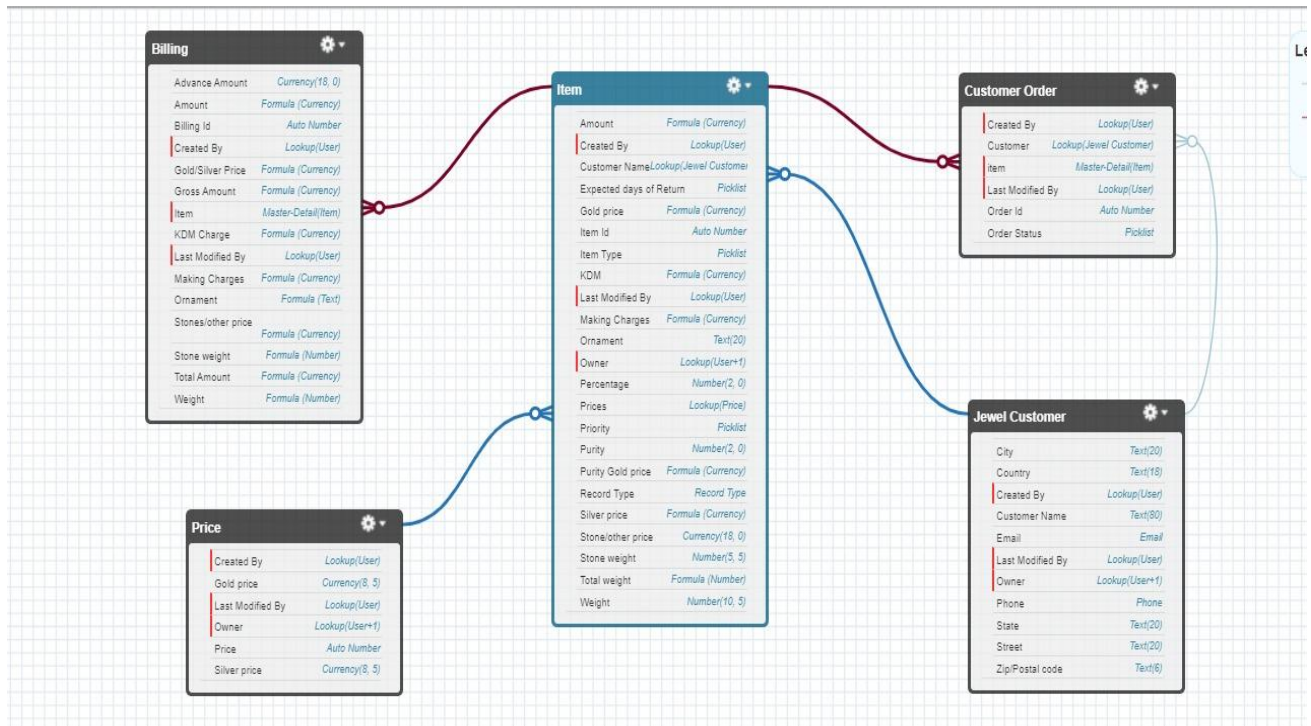
Fields & Relationships
14 Items, Sorted by Field Label

Quick Find New Deleted Fields Field Dependencies Set History Tracking

Amount	Amount__c	Formula (Currency)		
Billing Id	Name	Auto Number		✓
Created By	CreatedById	Lookup(User)		
Gold/Silver Price	Gold_Silver_Price__c	Formula (Currency)		
Item	Item__c	Lookup(Item)		✓
KDM Charge	KDM_Charge__c	Formula (Currency)		
Last Modified by	LastModifiedById	Lookup(User)		
Making Charges	Making_Charges__c	Formula (Currency)		
Ornament	Ornament__c	Formula (Text)		
Owner	OwnerId	Lookup(User Group)		✓
Stone weight	Stone_weight__c	Formula (Number)		
Stones/other price	Stones_other_price__c	Formula (Currency)		
Total Amount	Total_Amount__c	Formula (Currency)		
Weight	Weight__c	Formula (Number)		

27°C Light rain 20:55 17-09-2023

Schema builder :



Creating the field dependencies :

The screenshot shows the Salesforce Setup page for the 'Item' object, specifically the 'Fields & Relationships' tab. The page displays the 'Picklist Options' section, which includes 'Restrict picklist to the values defined in the value set' and 'Controlling Field'. Below this, the 'Picklist Values Used' section shows 4 (1,000 max) values. The 'Field Dependencies' section is currently empty. The 'Validation Rules' section shows no rules defined. The 'Values' section lists the picklist values: Low, Medium, High, and Critical, each with a default value and a chart color.

Action	Dependent Field	Data Type	Modified By
Edit Del	Expected Days Of Return	Picklist	KEERTHANA.R. 9/17/2025, 9:34 AM

Action	Values	API Name	Default	Chart Colors	Modified By
<input type="checkbox"/> Edit Del Deactivate	Low	Low	<input type="checkbox"/>	Assigned dynamically	KEERTHANA.R. 9/12/2025, 11:40 PM
<input type="checkbox"/> Edit Del Deactivate	Medium	Medium	<input type="checkbox"/>	Assigned dynamically	KEERTHANA.R. 9/12/2025, 11:40 PM
<input type="checkbox"/> Edit Del Deactivate	High	High	<input type="checkbox"/>	Assigned dynamically	KEERTHANA.R. 9/12/2025, 11:40 PM
<input type="checkbox"/> Edit Del Deactivate	Critical	Critical	<input type="checkbox"/>	Assigned dynamically	KEERTHANA.R. 9/12/2025, 11:40 PM

Profiles :

The screenshot displays the Salesforce Object Manager interface for an Item Validation Rule. The browser address bar shows the URL: `orgfarm-9f9df8e412-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/page?address=%2F03dgK0000000Q965`. The page title is "Item Validation Rule". Below the title, there is a "Back to Item" link and a "Help for this Page" link. The "Validation Rule Detail" section includes a table with the following information:

Validation Rule Detail		Edit		Clone	
Rule Name	ValidationRule_For_Item	Active	<input checked="" type="checkbox"/>		
Error Condition Formula	OR(ISBLANK(Amount__c), ISBLANK(Customer_Name__c), ISBLANK(Gold_Price__c), ISBLANK(KDM__c), ISBLANK(Ornament__c), ISBLANK(Percentage__c), ISBLANK(Making_Charges__c), ISBLANK(Prices__c), ISBLANK(Stone_Weight__c), ISBLANK(Silver_Price__c), ISBLANK(Stone_Other_Price__c), ISBLANK(Stone_Weight__c), ISBLANK(Weight__c))				
Error Message	Please fill Required fields	Error Location	Top of Page		
Description					
Created By	KEERTHANA B, 9/17/2025, 8:49 AM	Modified By	KEERTHANA B, 9/17/2025, 8:49 AM		

At the bottom of the page, there are "Edit" and "Clone" buttons. The system status bar at the very bottom shows the temperature as 27°C, light rain, and the time as 21:20 on 17-09-2025.

This is a duplicate of the screenshot above, showing the same Salesforce Object Manager interface for the Item Validation Rule. The browser address bar shows the URL: `orgfarm-9f9df8e412-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/page?address=%2F03dgK0000000Q965`. The page title is "Item Validation Rule". Below the title, there is a "Back to Item" link and a "Help for this Page" link. The "Validation Rule Detail" section includes a table with the following information:

Validation Rule Detail		Edit		Clone	
Rule Name	ValidationRule_For_Item	Active	<input checked="" type="checkbox"/>		
Error Condition Formula	OR(ISBLANK(Amount__c), ISBLANK(Customer_Name__c), ISBLANK(Gold_Price__c), ISBLANK(KDM__c), ISBLANK(Ornament__c), ISBLANK(Percentage__c), ISBLANK(Making_Charges__c), ISBLANK(Prices__c), ISBLANK(Stone_Weight__c), ISBLANK(Silver_Price__c), ISBLANK(Stone_Other_Price__c), ISBLANK(Stone_Weight__c), ISBLANK(Weight__c))				
Error Message	Please fill Required fields	Error Location	Top of Page		
Description					
Created By	KEERTHANA B, 9/17/2025, 8:49 AM	Modified By	KEERTHANA B, 9/17/2025, 8:49 AM		

At the bottom of the page, there are "Edit" and "Clone" buttons. The system status bar at the very bottom shows the temperature as 27°C, light rain, and the time as 21:20 on 17-09-2025.

Gold smith profile :

The screenshot shows the Salesforce Setup interface for the 'Gold Smith' profile. The left sidebar contains a search bar with 'profiles' and a list of navigation items: Users, Profiles, and a search result for 'Gold Smith'. The main content area is titled 'SETUP Profiles' and shows the 'Gold Smith' profile details. The profile is a Custom Profile, created by KEERTHANA.R. on 9/17/2025 at 8:53 AM. The 'Page Layouts' section lists various layouts assigned to the profile, including Global Layout, Email Application, Home Page Layout, Account, Alternative Payment Method, Location Group Assignment, Macro, Object Milestone, Operating Hours, and Opportunity.

Profile Detail

Name	Gold Smith
User License	Salesforce
Description	
Created By	KEERTHANA.R. 9/17/2025, 8:53 AM
Modified By	KEERTHANA.R. 9/17/2025, 8:58 AM

Page Layouts

Standard Object Layouts	Global	Global Layout [View Assignment]	Location Group Assignment	Location Group Assignment Layout [View Assignment]
Email Application	Not Assigned [View Assignment]		Macro	Macro Layout [View Assignment]
Home Page Layout	Home Page Default [View Assignment]		Object Milestone	Object Milestone Layout [View Assignment]
Account	Account Layout [View Assignment]		Operating Hours	Operating Hours Layout [View Assignment]
Alternative Payment Method	Alternative Payment Method Layout [View Assignment]		Opportunity	Opportunity Layout [View Assignment]

Worker profile :

The screenshot shows the Salesforce Setup interface for the 'Worker Profile'. The left sidebar contains a search bar with 'profiles' and a list of navigation items: Users, Profiles, and a search result for 'Worker Profile'. The main content area is titled 'SETUP Profiles' and shows the 'Worker Profile' details. The profile is a Custom Profile, created by KEERTHANA.R. on 9/17/2025 at 9:02 AM. The 'Page Layouts' section lists various layouts assigned to the profile, including Global Layout, Email Application, Home Page Layout, Account, Alternative Payment Method, Location Group Assignment, Lead, Location, Location Group, Location Group Assignment, Object Milestone, and Opportunity.

Profile Detail

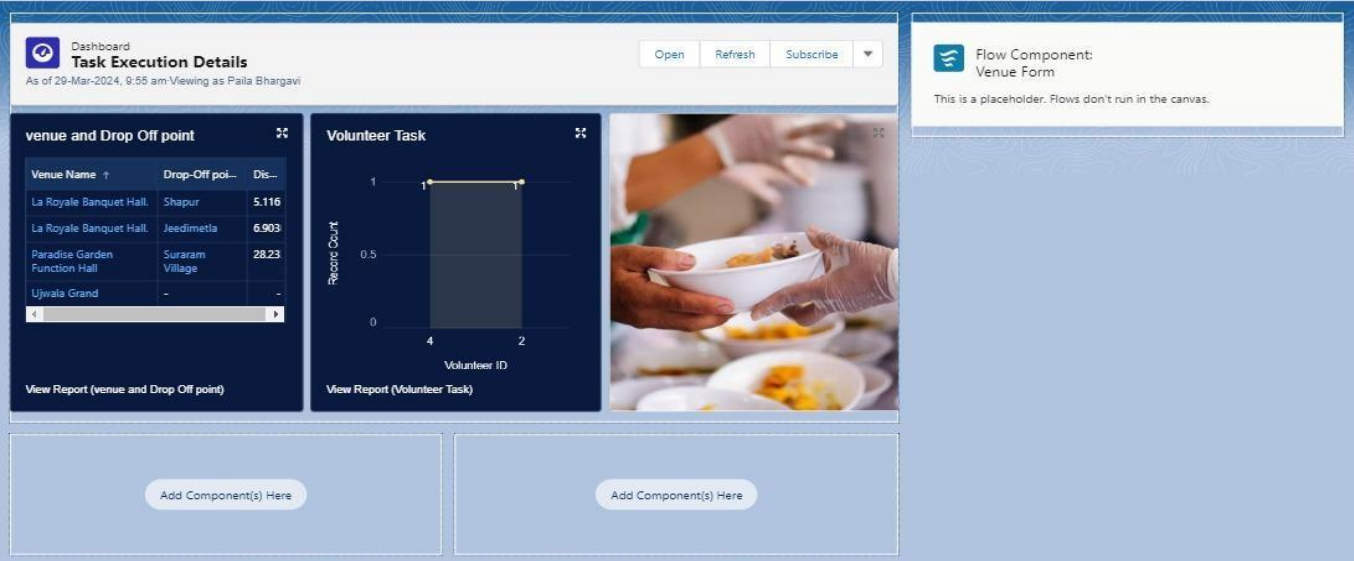
Name	Worker Profile
User License	Salesforce Platform
Description	
Created By	KEERTHANA.R. 9/17/2025, 9:02 AM
Modified By	KEERTHANA.R. 9/17/2025, 9:03 AM

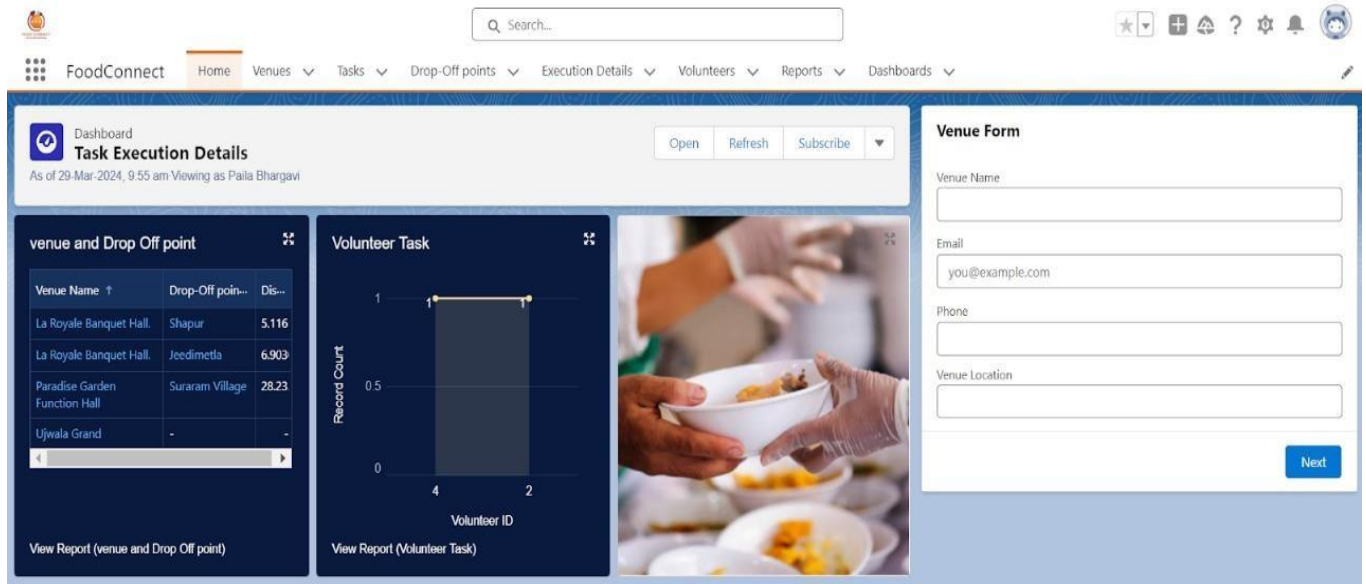
Page Layouts

Standard Object Layouts	Global	Global Layout [View Assignment]	Lead	Lead Layout [View Assignment]
Email Application	Not Assigned [View Assignment]		Location	Location Layout [View Assignment]
Home Page Layout	Home Page Default [View Assignment]		Location Group	Location Group Layout [View Assignment]
Account	Account Layout [View Assignment]		Location Group Assignment	Location Group Assignment Layout [View Assignment]
Alternative Payment Method	Alternative Payment Method Layout [View Assignment]		Object Milestone	Object Milestone Layout [View Assignment]

Result

Output Screenshots





ADVANTAGES & DISADVANTAGES

Advantages

1. **Efficient Coordination:** Streamlines communication between donors, volunteers, and drop-off points.
2. **Reduces Food Waste:** Helps minimize food waste by redistributing surplus to those in need.
3. **Automation:** Uses Salesforce tools (Flows, Alerts, etc.) to reduce manual work and human error.
4. **Real-Time Tracking:** Provides visibility into task status, pickup/delivery updates, and execution logs.
5. **Social Impact:** Supports hunger relief efforts and strengthens community support systems.

Disadvantages

1. **Technology Dependency:** Requires access to Salesforce and internet connectivity, which may be a barrier in some regions.
2. **Initial Setup Cost:** Implementation and customization on Salesforce can be costly for small organizations.
3. **Volunteer Reliability:** The system depends heavily on volunteers, which can lead to inconsistencies in execution.

4. **Food Safety Risks:** If not handled properly, there can be concerns about the hygiene and safety of leftover food.
5. **Training Requirement:** Users need training to effectively use the system and its automated features.

CONCLUSION

The Leftover Food Supply Management System successfully streamlines the food donation and distribution process through a structured, automated Salesforce application. It enhances efficiency, coordination, and tracking accuracy for donors, volunteers, and administrators, ultimately contributing to reduced food waste and greater community impact.

APPENDIX

- **Source Code:** Provided in Apex Classes and Triggers **trigger**

DropOffTrigger on Drop_Off_point__c (before insert) {

for(Drop_Off_point__c Drop : Trigger.new){

Drop.Distance__c = Drop.distance calculation__c;

1

