TO SUPPLY LEFTOVER FOOD TO POOR

SREE NARAYANA GURU COLLEGE,
K. G. CHAVADI, COIMBATORE

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INTRODUCTION

1. Project Overview

Food wastage is a major problem while many people still go hungry. This project, **"To Supply Leftover Food to the Poor Using Salesforce,"** uses Salesforce CRM to connect donors, volunteers, NGOs, and receivers. The system automates food collection, tracking, and distribution with custom objects, workflows, and reports. It ensures efficiency, transparency, and real-time updates while giving students hands on experience with Salesforce and showing how technology can drive social good.

2. Purpose

The purpose of this project is to create a smart and efficient system that reduces food wastage and ensures that leftover food is redirected to people who need it most. In today's world, massive amounts of edible food are discarded due to lack of proper management, while countless individuals still suffer from hunger. This project seeks to address that imbalance by building a transparent, technology-driven solution.

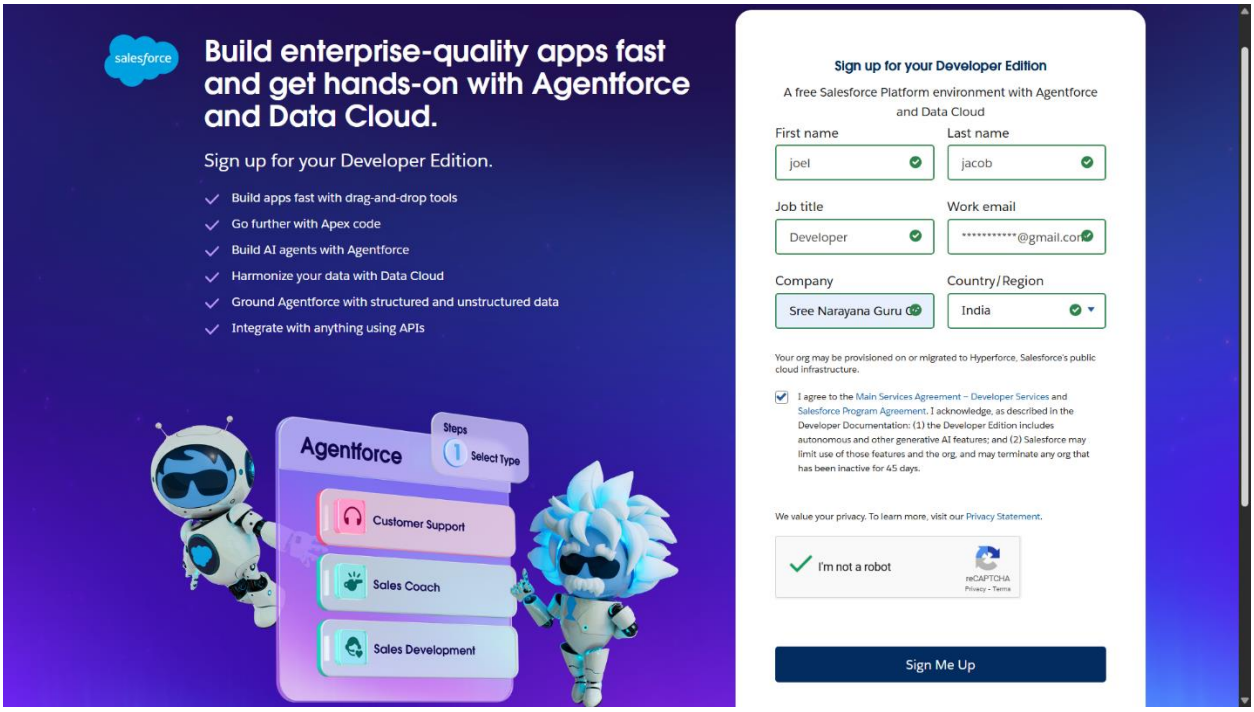
Through Salesforce CRM, the project connects all stakeholders—donors, drop-off points, volunteers, NGOs, and receivers—on a single platform. The system automates food collection, distribution, volunteer coordination, and reporting to make the entire process reliable, accountable, and fast. It ensures that donors can see where their contributions are going, volunteers are efficiently scheduled, and NGOs can distribute food effectively with minimal waste.

Beyond social impact, the project also serves an academic and career purpose by allowing students to gain hands-on experience in Salesforce development. Students learn to configure custom objects, workflows, triggers, and dashboards while applying these tools to solve a real-world problem. Thus, the project combines **social welfare** with **technological skill-building**, proving how CRM solutions can contribute to sustainable and impactful community service.

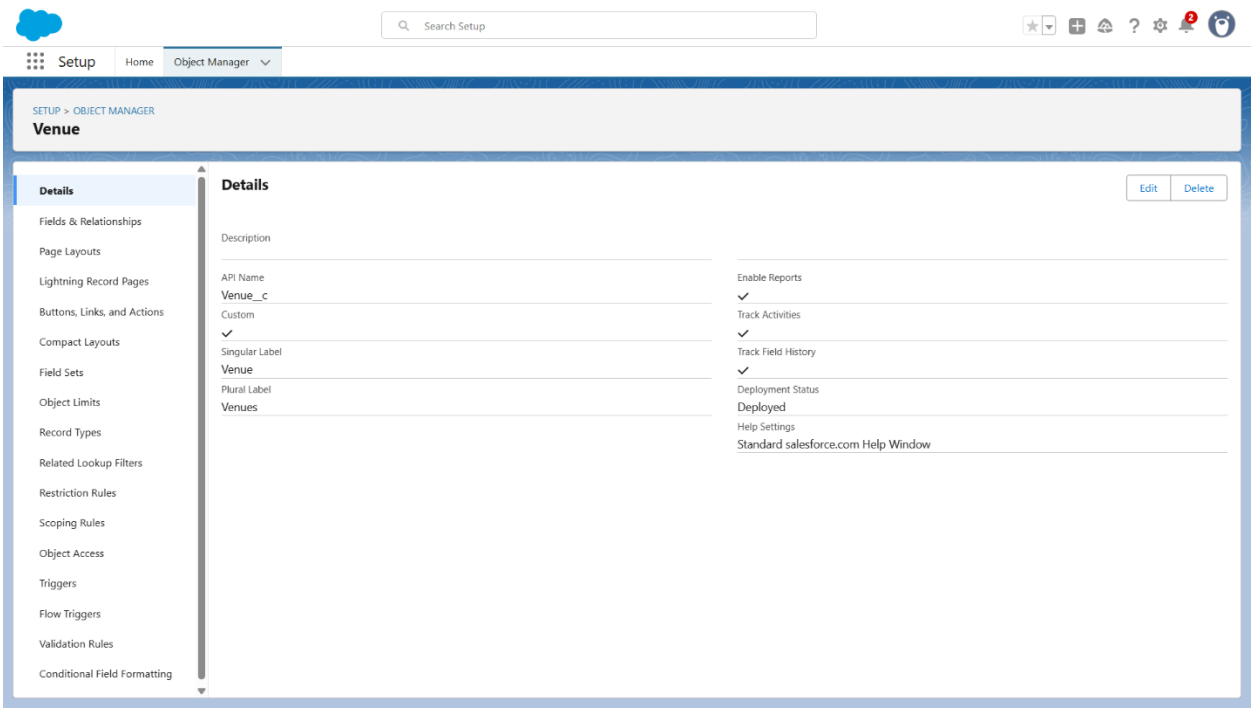
DEVELOPMENT PHASE

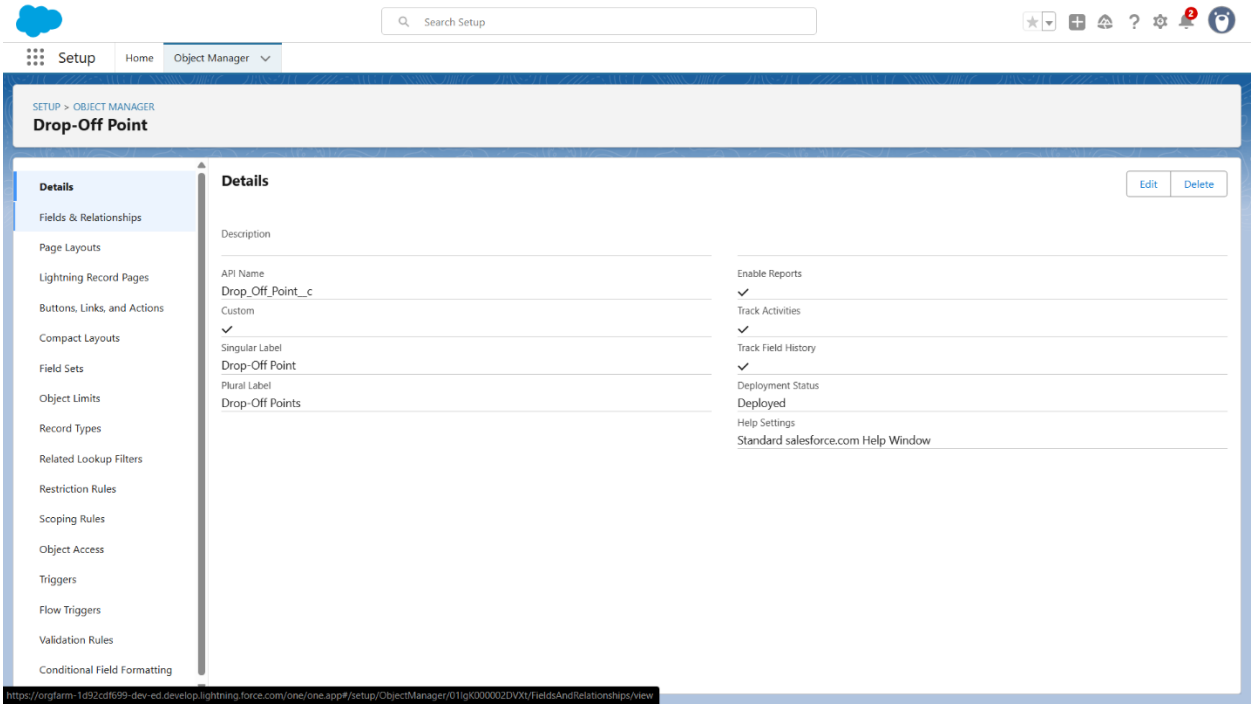
1. Creating Developer Account:

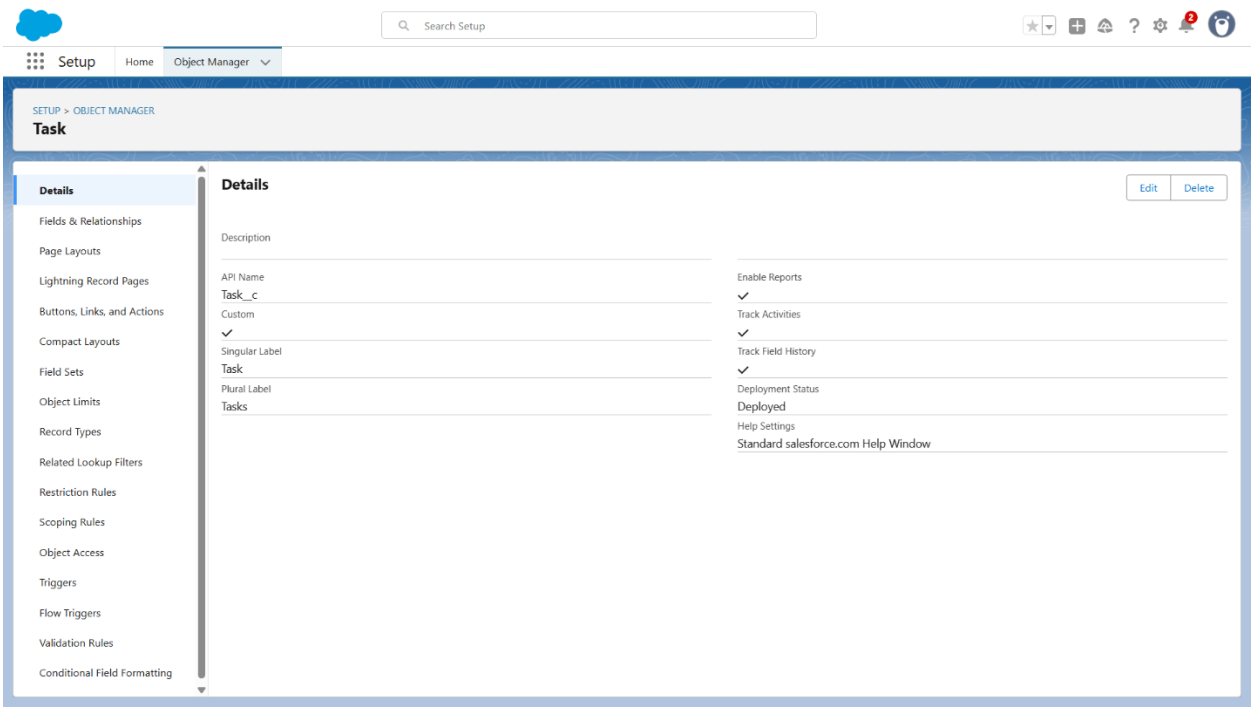
By using this URL - https://www.salesforce.com/form/developer-signup/?d=pb



2.Created objects: Venue, Drop-Off Point, Task, Volunteer, Execution Details



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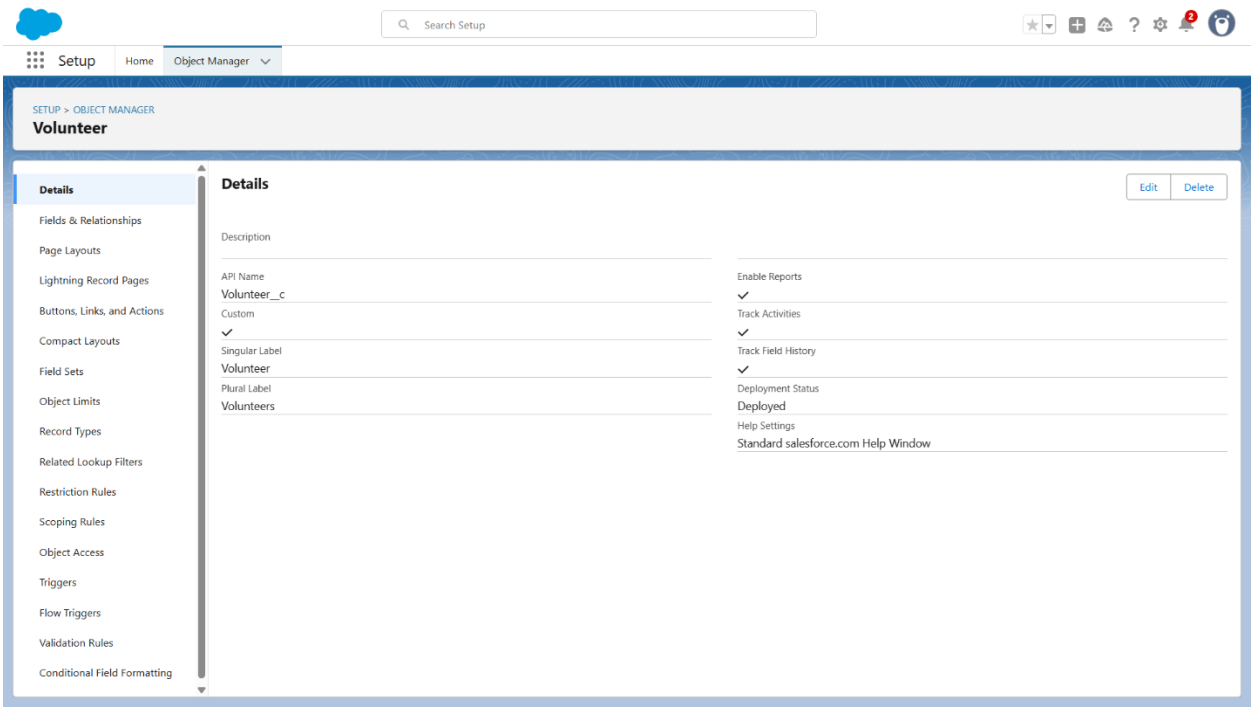
Setup
Home
Object Manager
SETUP > OBJECT MANAGER
Task
Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters
Restriction Rules
Scoping Rules
Object Access
Triggers
Flow Triggers
Validation Rules
Conditional Field Formatting
Details
Edit
Delete
Description
API Name
Task__c
Custom
Singular Label
Task
Plural Label
Tasks
Enable Reports
Track Activities
Track Field History
Deployment Status
Deployed
Help Settings
Standard salesforce.com Help Window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Object Manager
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Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters
Restriction Rules
Scoping Rules
Object Access
Triggers
Flow Triggers
Validation Rules
Conditional Field Formatting
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Delete
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Track Field History
Deployment Status
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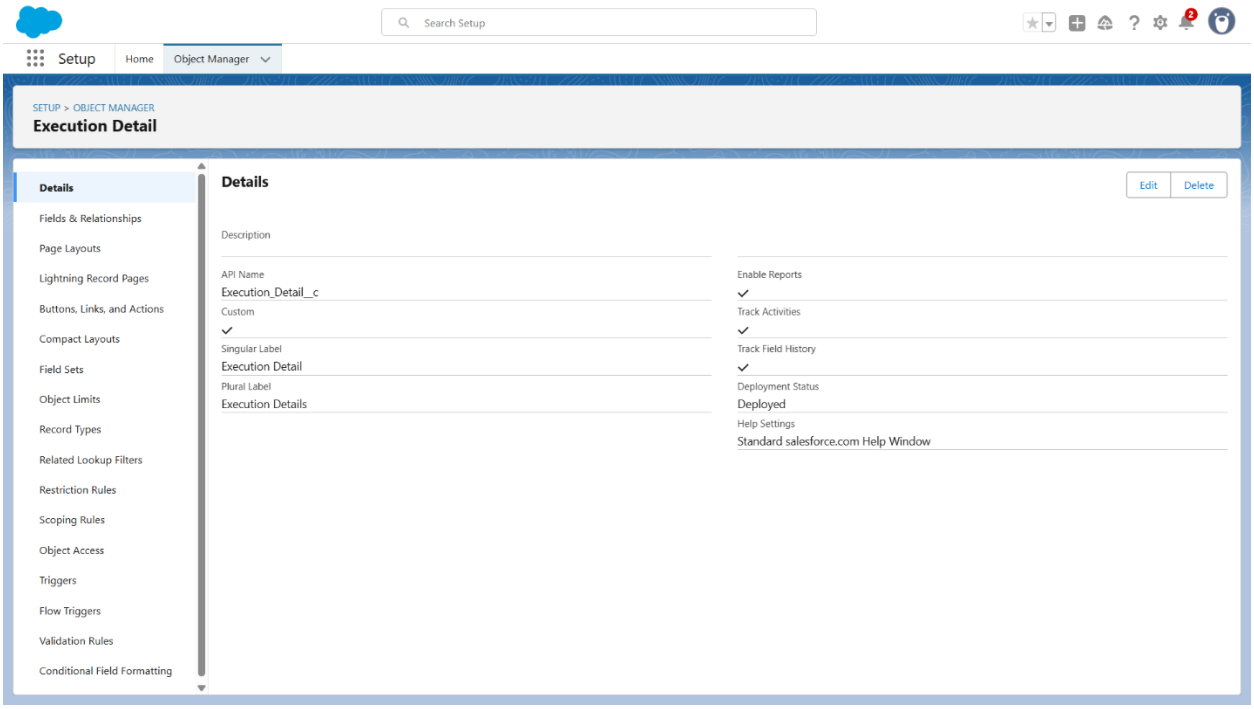
Standard salesforce.com Help Window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Page Layouts
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Buttons, Links, and Actions
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Field Sets
Object Limits
Record Types
Related Lookup Filters
Restriction Rules
Scoping Rules
Object Access
Triggers
Flow Triggers
Validation Rules
Conditional Field Formatting
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Description
API Name
Execution_Detail__c
Custom
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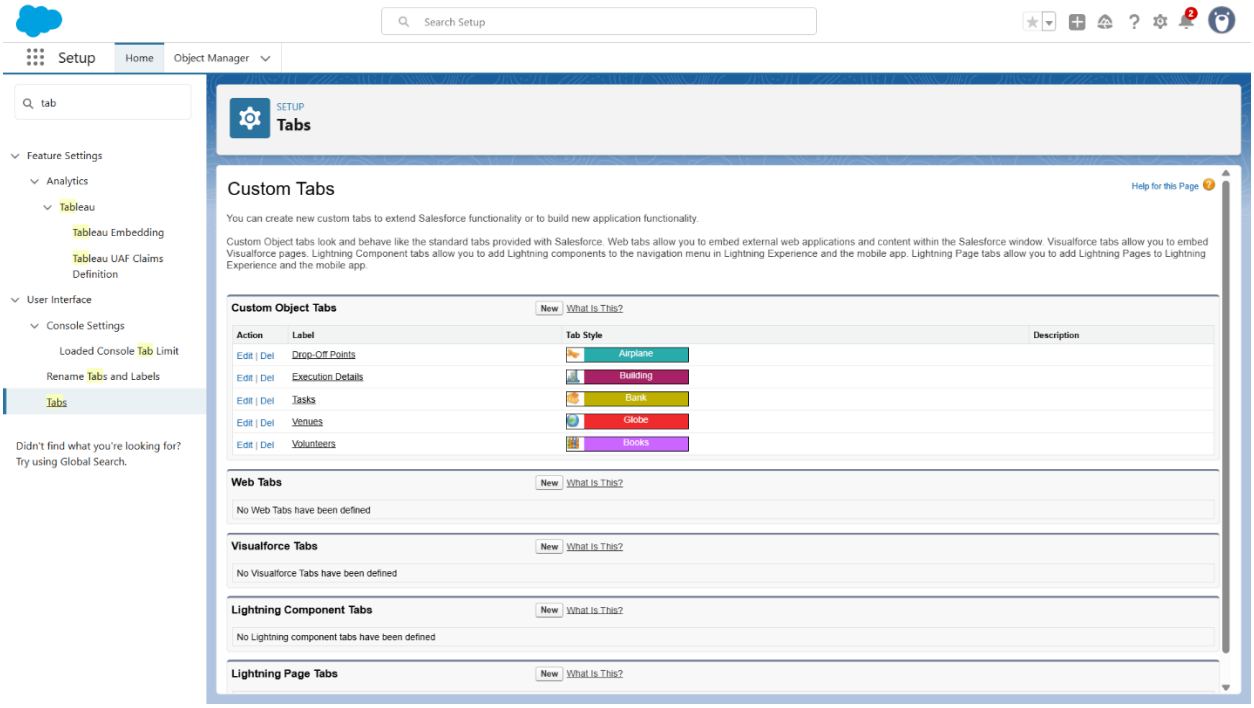
Execution Details
Enable Reports
Track Activities
Track Field History
Deployment Status
Deployed
Help Settings
Standard salesforce.com Help Window

3.Tabs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Setup
Home
Object Manager
tab
Feature Settings
Analytics
Tableau
Tableau Embedding
Tableau UAF Claims Definition
User Interface
Console Settings
Loaded Console Tab Limit
Rename Tabs and Labels
Tabs
Didn't find what you're looking for?
Try using Global Search.
SETUP
Tabs
Custom Tabs
Help for this Page
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
Drop-Off Points
Airplane
Edit | Del
Execution Details
Building
Edit | Del
Tasks
Bank
Edit | Del
Venues
Globe
Edit | Del
Volunteers
Books
Web Tabs
New
What Is This?
No Web Tabs have been defined
Visualforce Tabs
New
What Is This?
No Visualforce Tabs have been defined
Lightning Component Tabs
New
What Is This?
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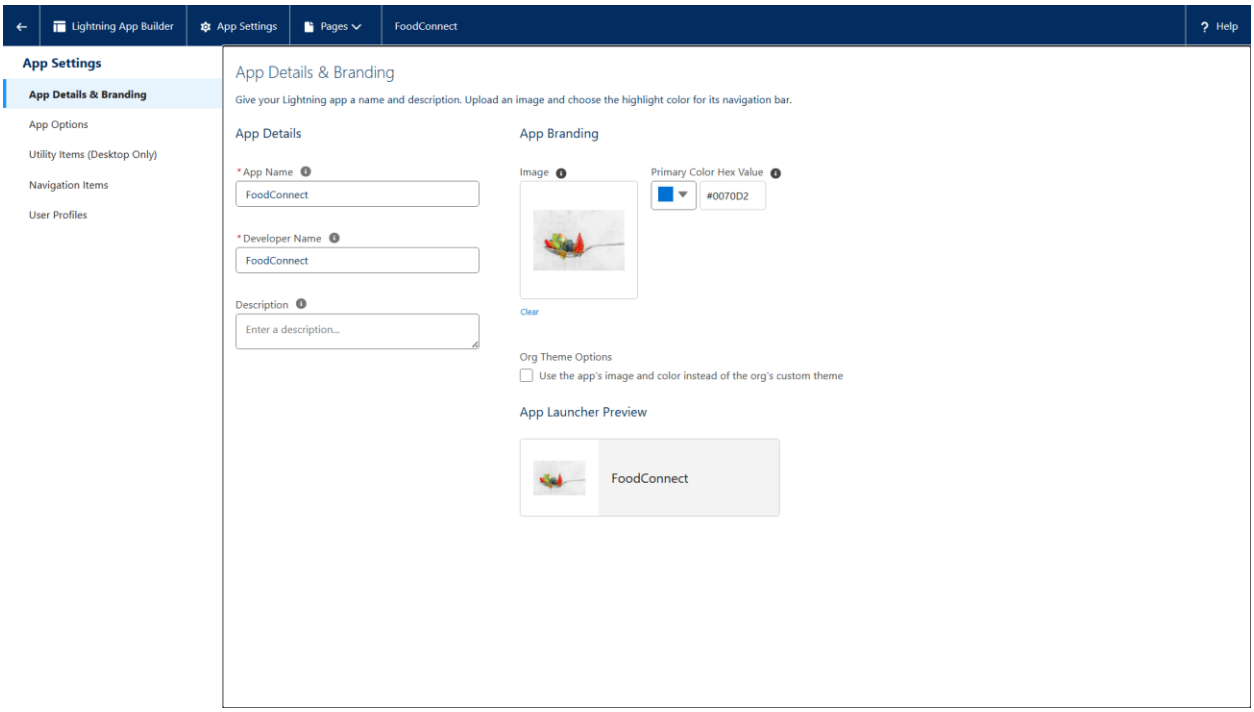
Lightning Page Tabs
New
What Is This?

4.Developed Lightning App



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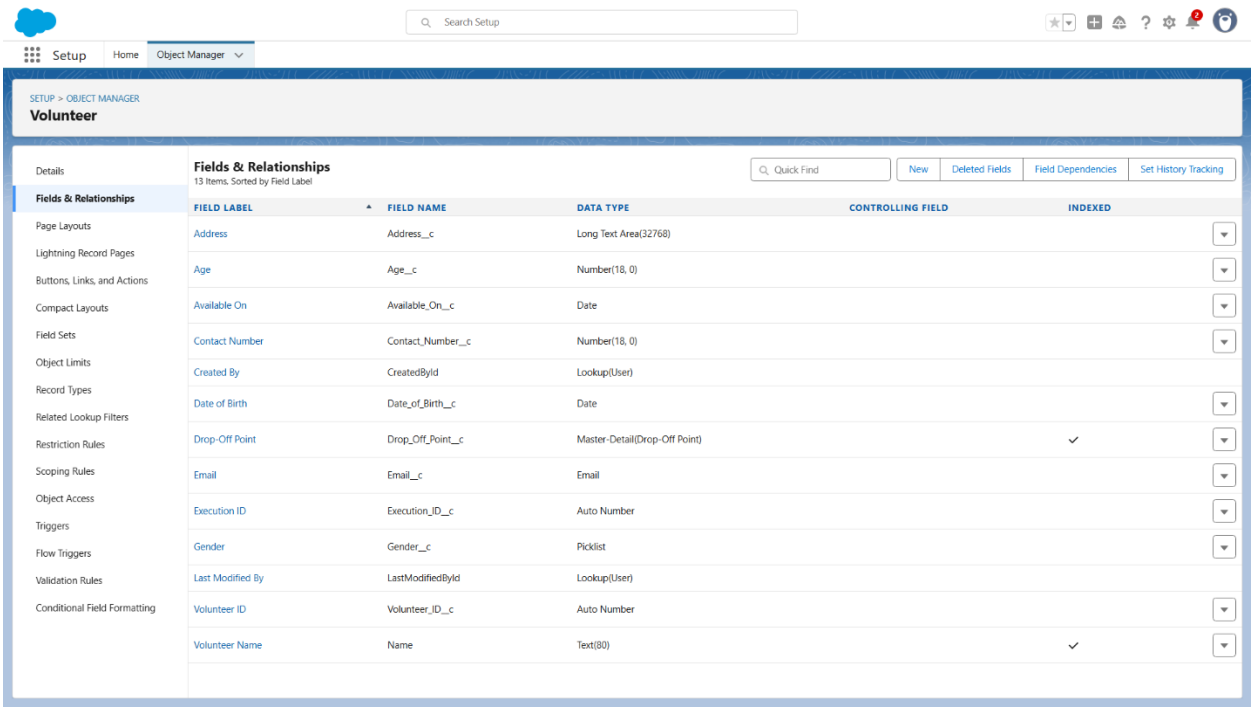

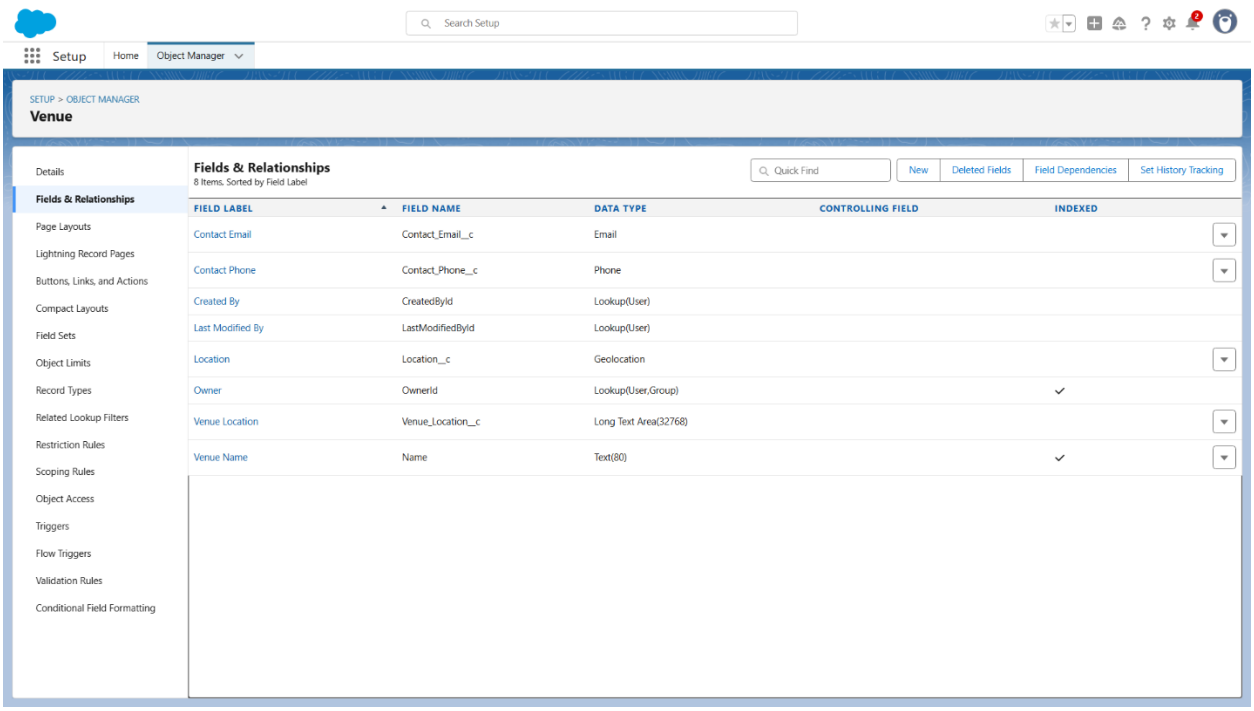
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Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters
Restriction Rules
Scoping Rules
Object Access
Triggers
Flow Triggers
Validation Rules
Conditional Field Formatting
Fields & Relationships
8 Items, Sorted by Field Label
Quick Find
New
Deleted Fields
Field Dependencies
Set History Tracking
FIELD LABEL
FIELD NAME
DATA TYPE
CONTROLLING FIELD
INDEXED
Contact Email
Contact_Email__c
Email
Contact Phone
Contact_Phone__c
Phone
Created By
CreatedById
Lookup(User)
Last Modified By
LastModifiedById
Lookup(User)
Location
Location__c
Geolocation
Owner
OwnerId
Lookup(User,Group)
Venue Location
Venue_Location__c
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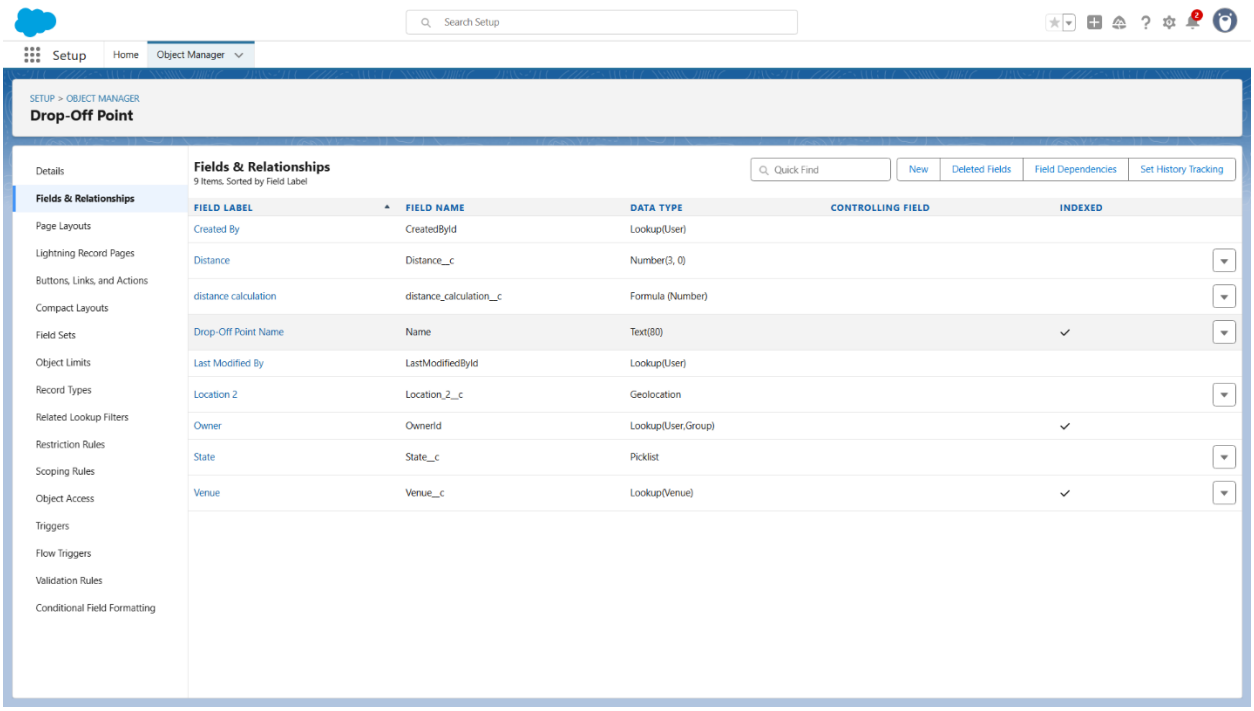
Venue Name
Name
Text(80)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Field Sets
Object Limits
Record Types
Related Lookup Filters
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Scoping Rules
Object Access
Triggers
Flow Triggers
Validation Rules
Conditional Field Formatting
Fields & Relationships
9 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)
Distance
Distance__c
Number(3, 0)
distance calculation
distance_calculation__c
Formula (Number)
Drop-Off Point Name
Name
Text(80)
Last Modified By
LastModifiedById
Lookup(User)
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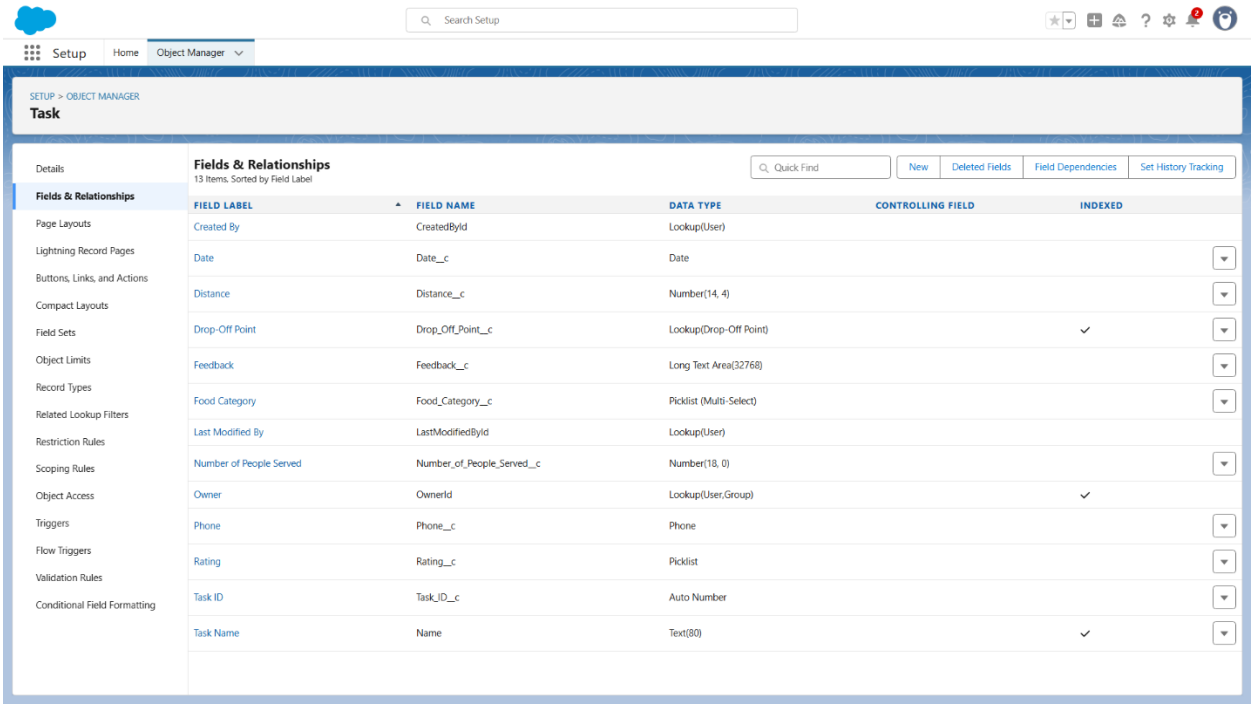
Location_2__c
Geolocation
Owner
OwnerId
Lookup(User,Group)
State
State__c
Picklist
Venue
Venue__c
Lookup(Venue)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Fields & Relationships
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Object Limits
Record Types
Related Lookup Filters
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Object Access
Triggers
Flow Triggers
Validation Rules
Conditional Field Formatting
Fields & Relationships
13 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)
Date
Date__c
Date
Distance
Distance__c
Number(14, 4)
Drop-Off Point
Drop_Off_Point__c
Lookup(Drop-Off Point)
Feedback
Feedback__c
Long Text Area(32768)
Food Category
Food_Category__c
Picklist (Multi-Select)
Last Modified By
LastModifiedById
Lookup(User)
Number of People Served
Number_of_People_Served__c
Number(18, 0)
Owner
OwnerId
Lookup(User,Group)
Phone
Phone__c
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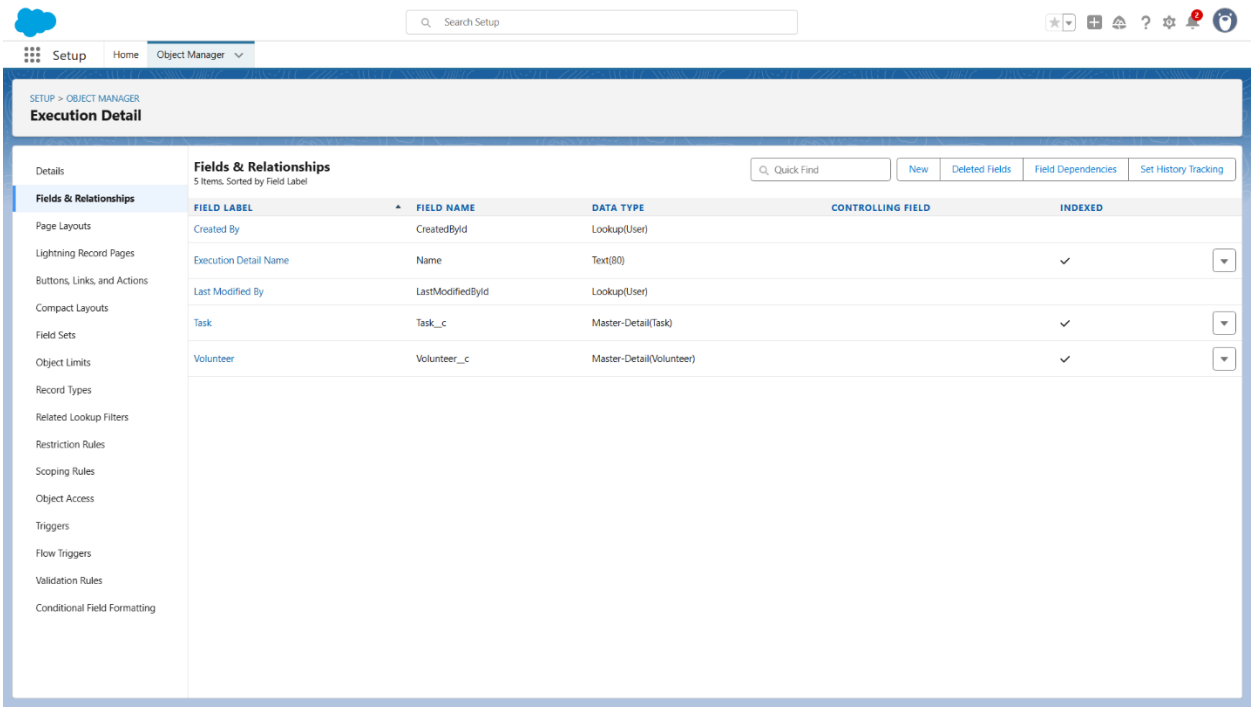
Rating
Rating__c
Picklist
Task ID
Task_ID__c
Auto Number
Task Name
Name
Text(80)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Buttons, Links, and Actions
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Scoping Rules
Object Access
Triggers
Flow Triggers
Validation Rules
Conditional Field Formatting
Fields & Relationships
5 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)
Execution Detail Name
Name
Text(80)
Last Modified By
LastModifiedById
Lookup(User)
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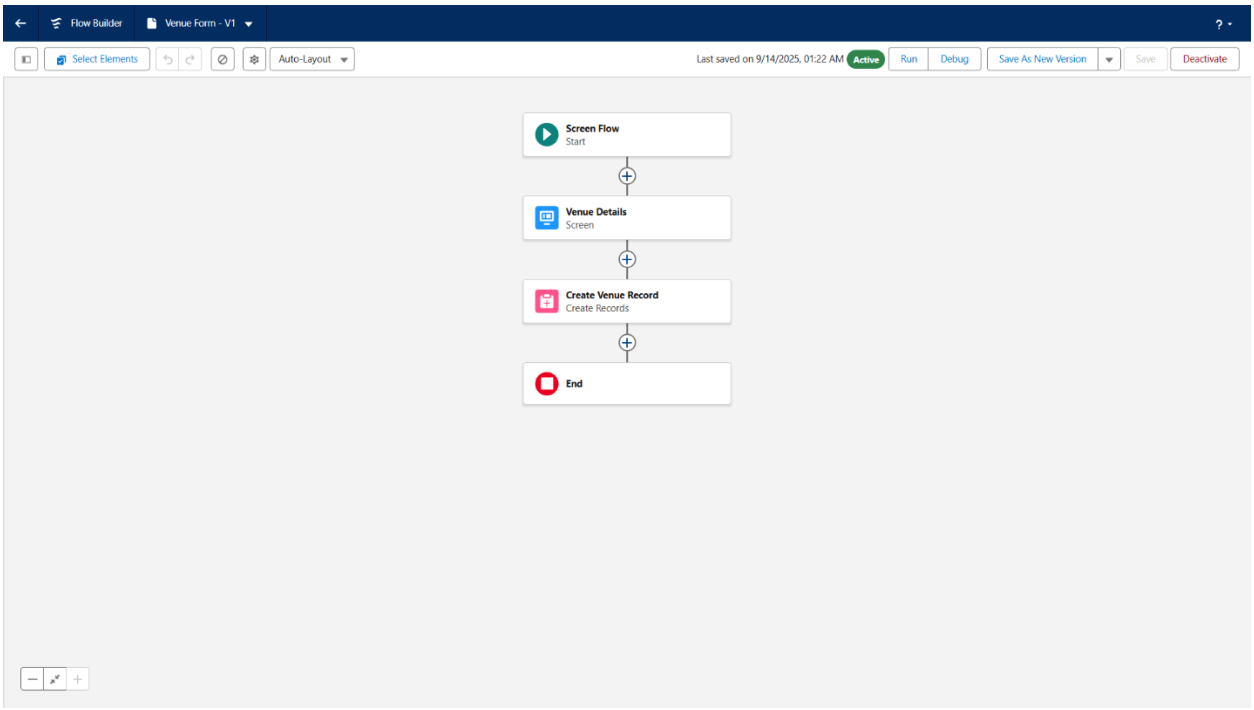
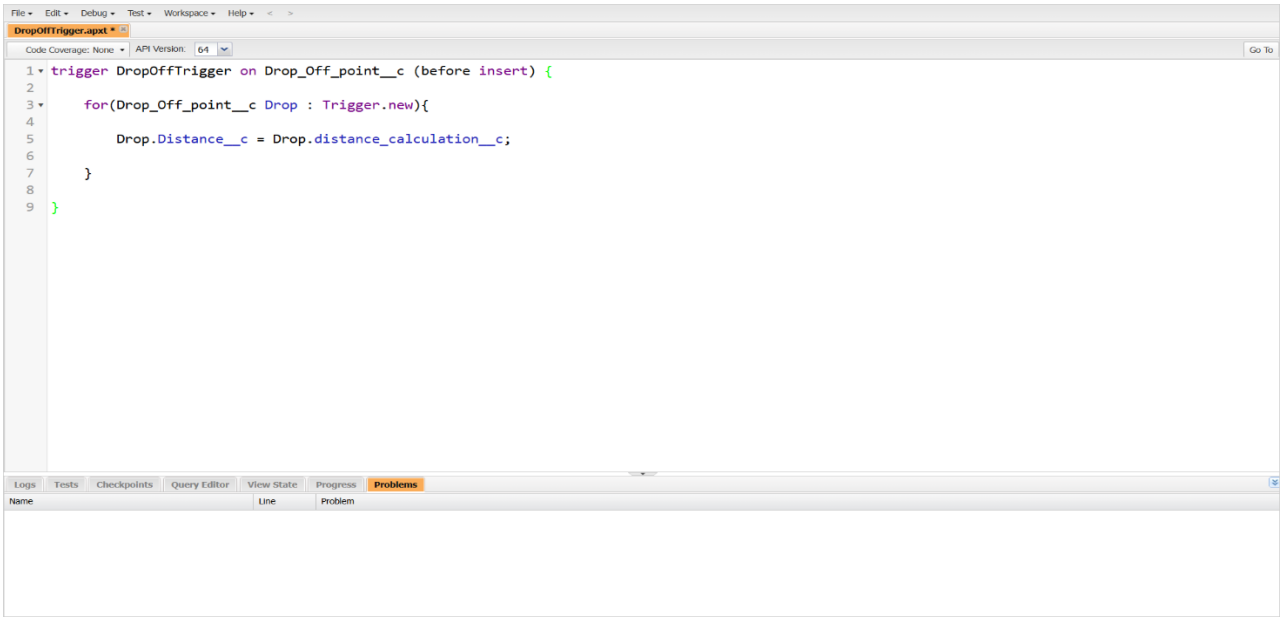
Task__c
Master-Detail(Task)
Volunteer
Volunteer__c
Master-Detail(Volunteer)

5. Flow



6. Apex Trigger

Create an Apex Trigger



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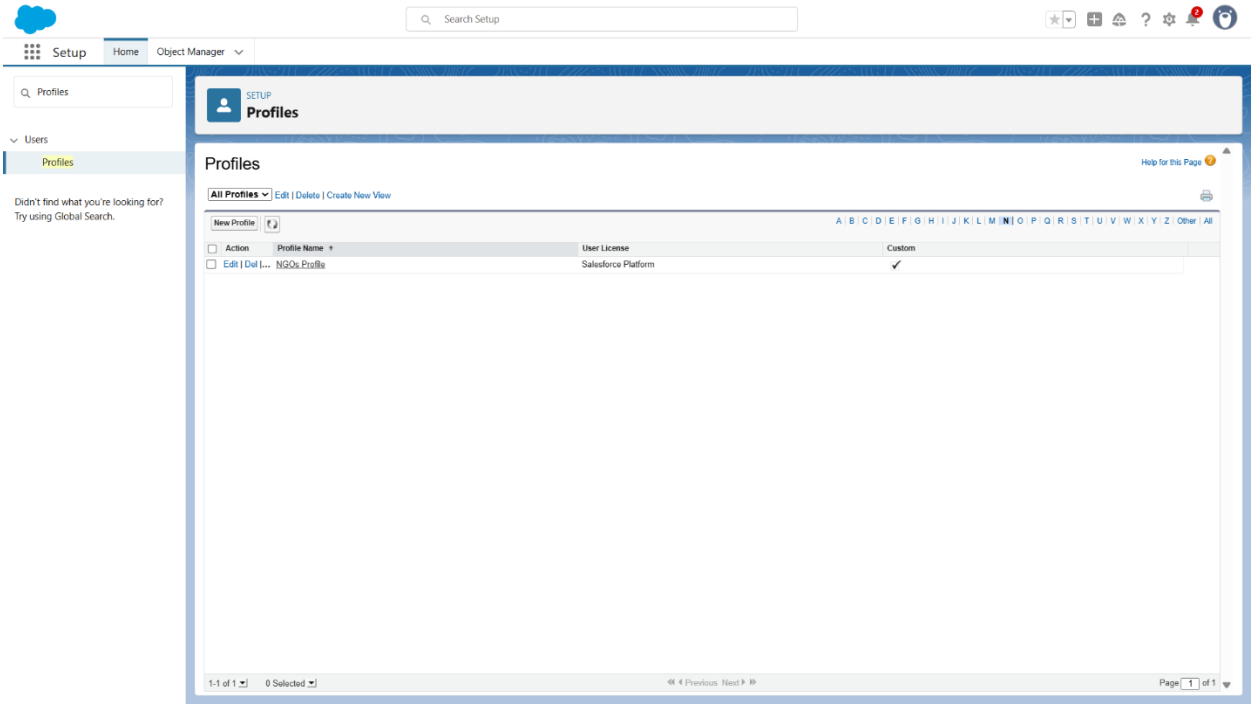

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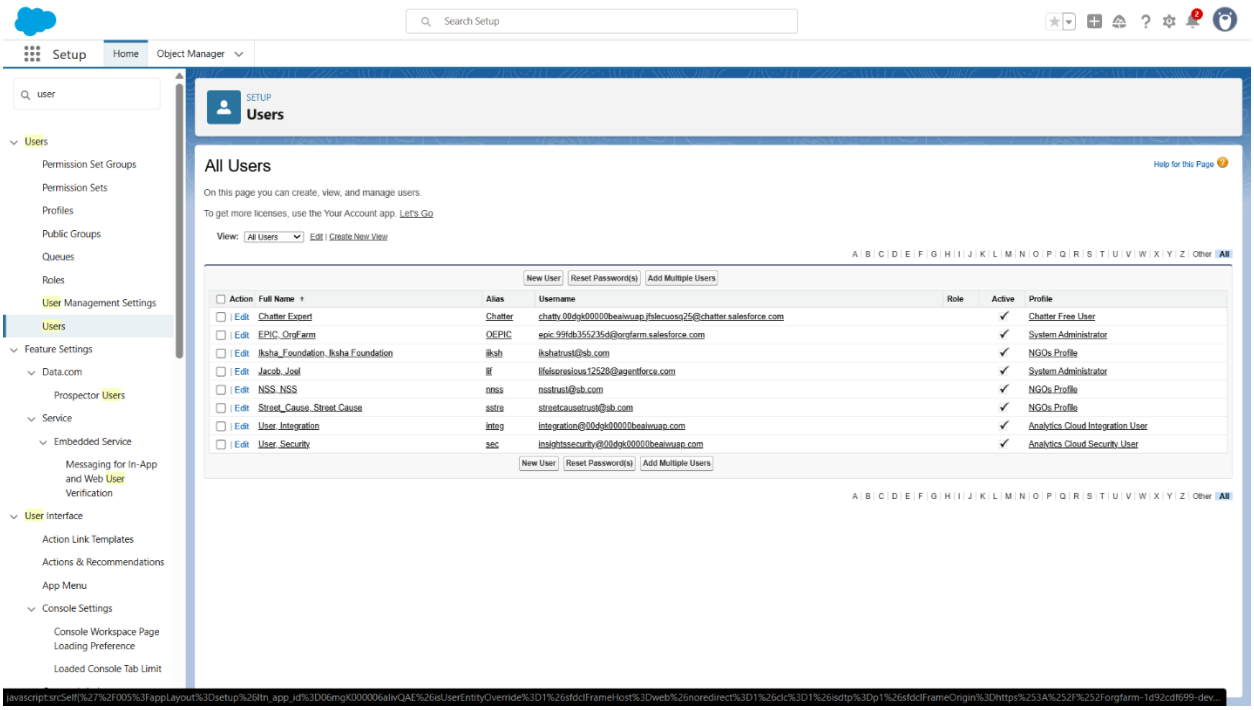
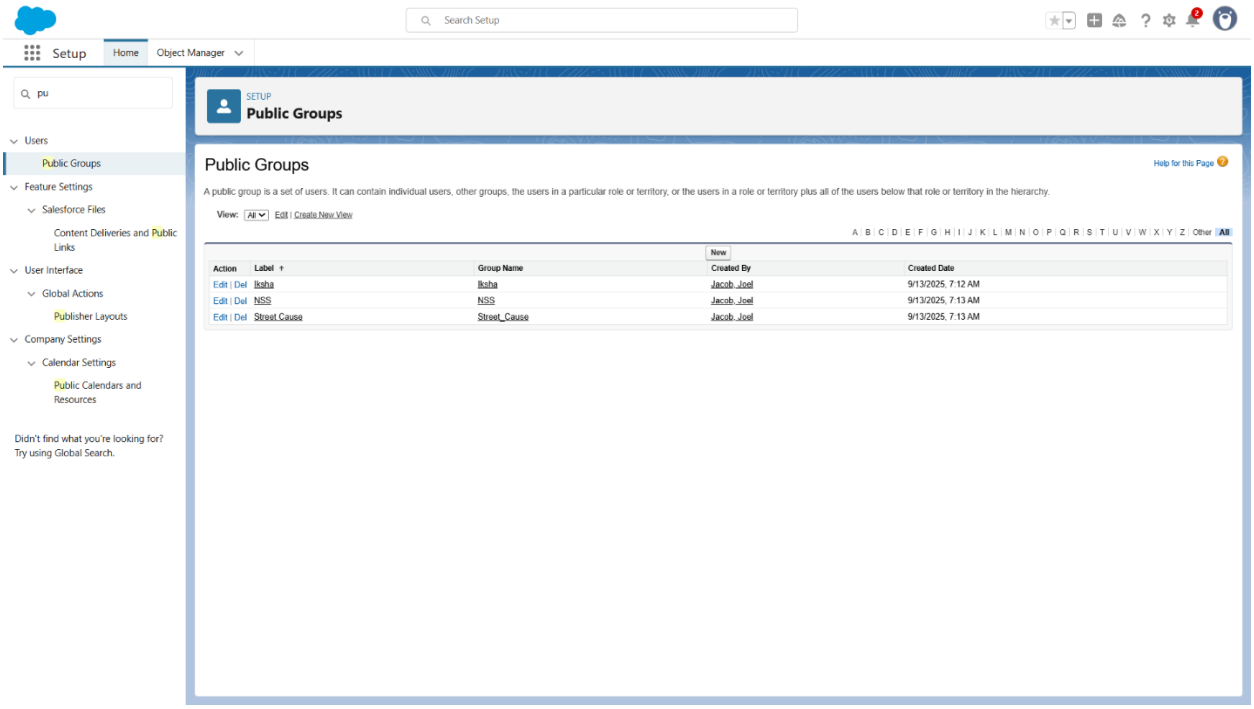


9. Creation of Public Groups



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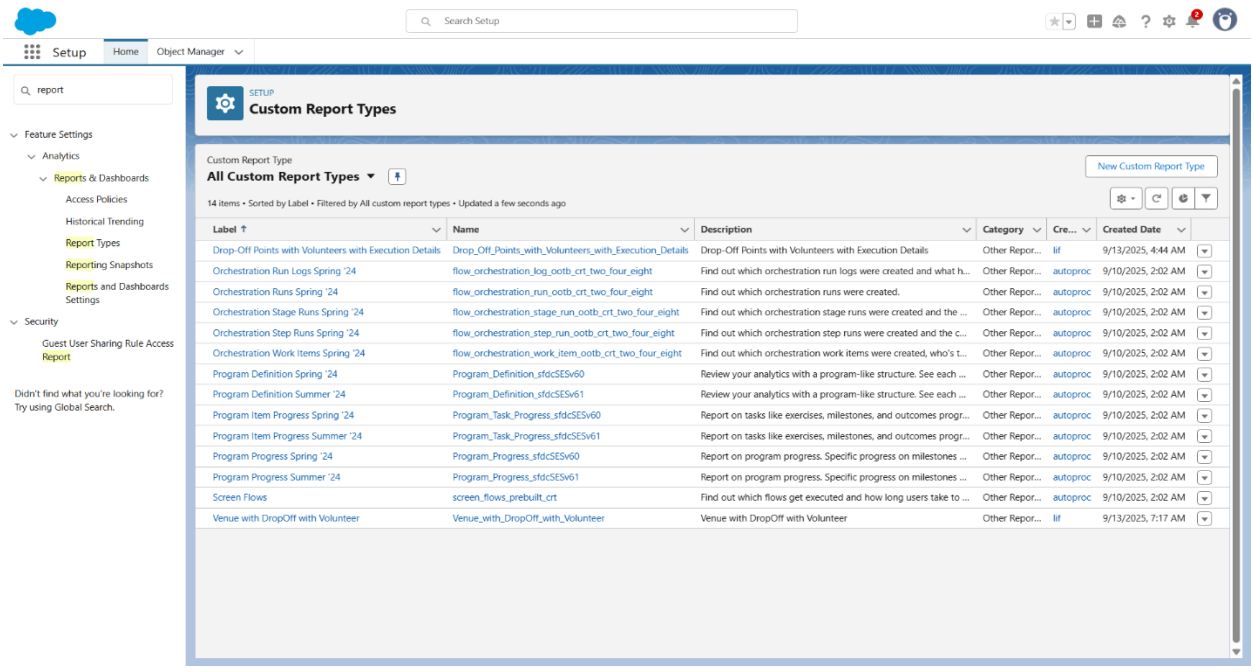

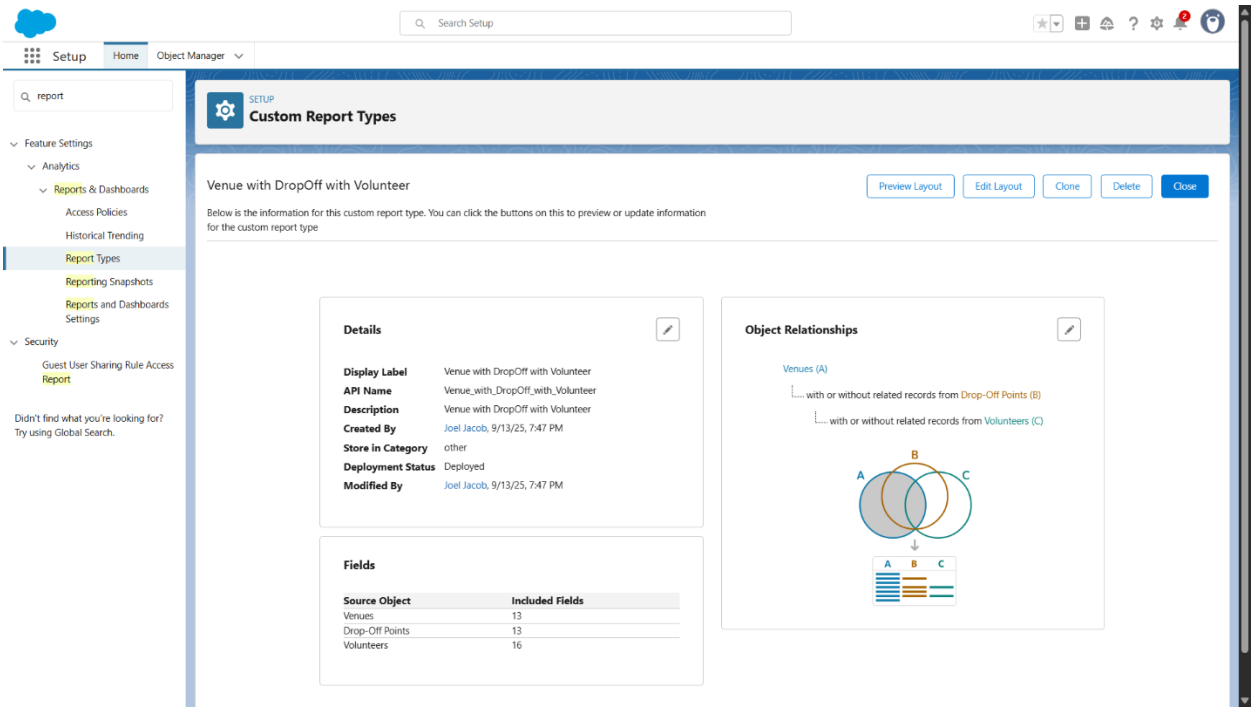
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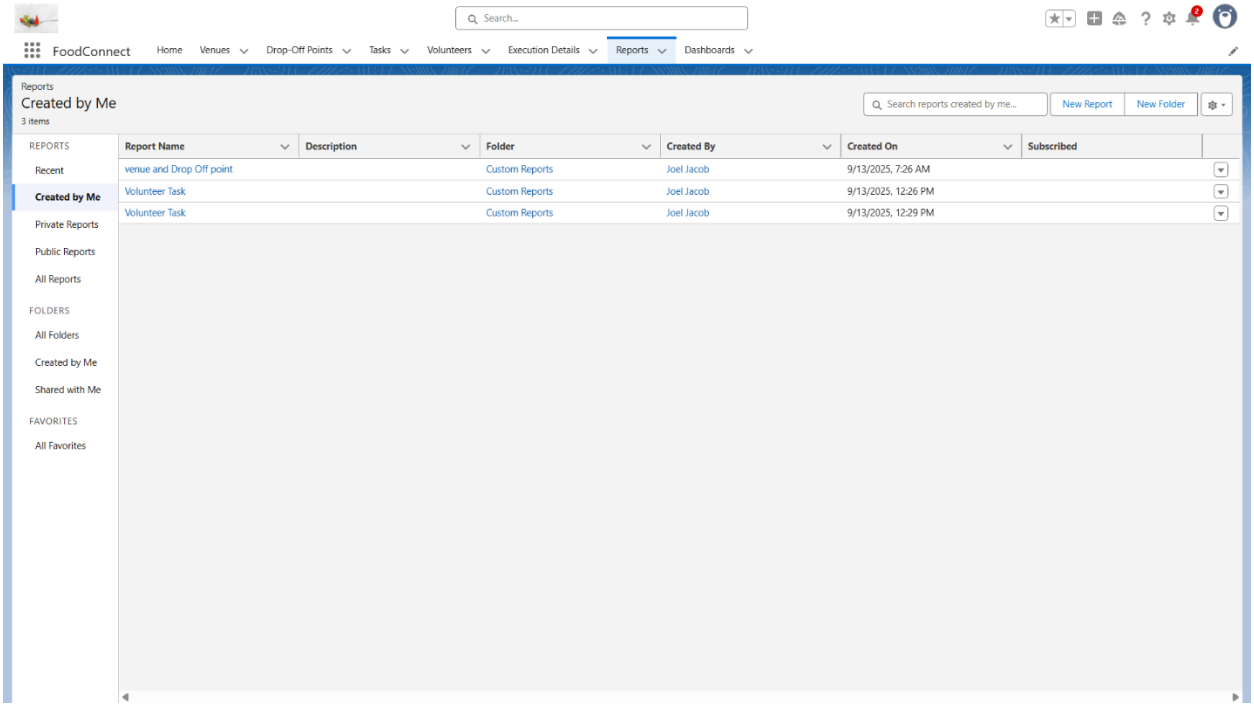
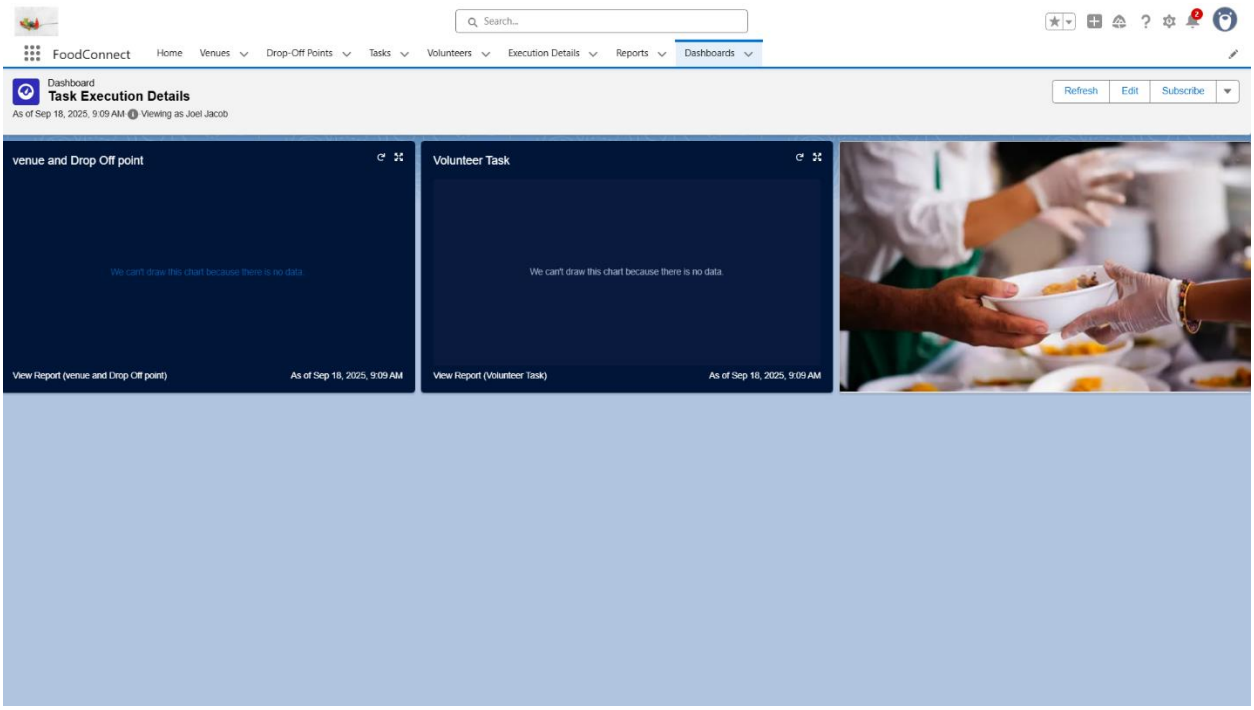
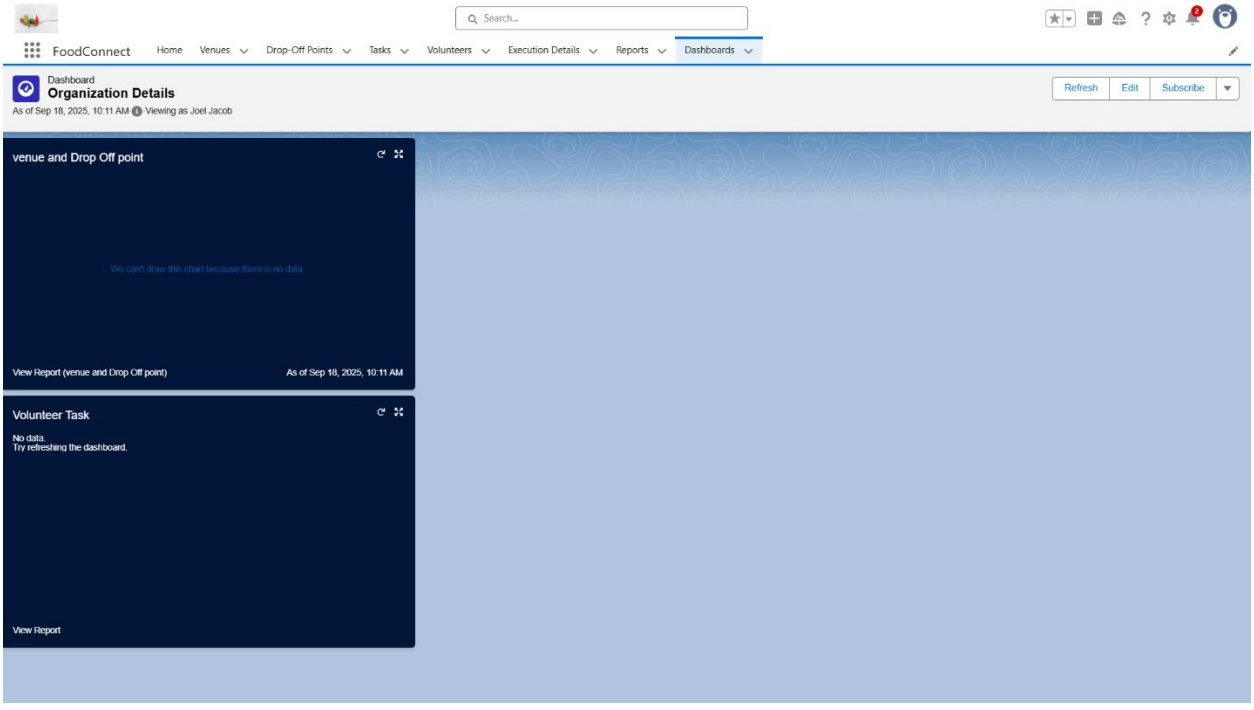
Setup
Home
Object Manager
report
Feature Settings
Analytics
Reports & Dashboards
Access Policies
Historical Trending
Report Types
Reporting Snapshots
Reports and Dashboards Settings
Security
Guest User Sharing Rule Access Report
Didn't find what you're looking for? Try using Global Search.
SETUP
Custom Report Types
Venue with DropOff with Volunteer
Preview Layout
Edit Layout
Clone
Delete
Close
Below is the information for this custom report type. You can click the buttons on this to preview or update information for the custom report type
Details
Display Label Venue with DropOff with Volunteer
API Name Venue_with_DropOff_with_Volunteer
Description Venue with DropOff with Volunteer
Created By Joel Jacob, 9/13/25, 7:47 PM
Store in Category other
Deployment Status Deployed
Modified By Joel Jacob, 9/13/25, 7:47 PM
Object Relationships
Venues (A)
with or without related records from Drop-Off Points (B)
with or without related records from Volunteers (C)
A B C
Fields
Source Object Included Fields
Venues 13
Drop-Off Points 13
Volunteers 16

11.Reports

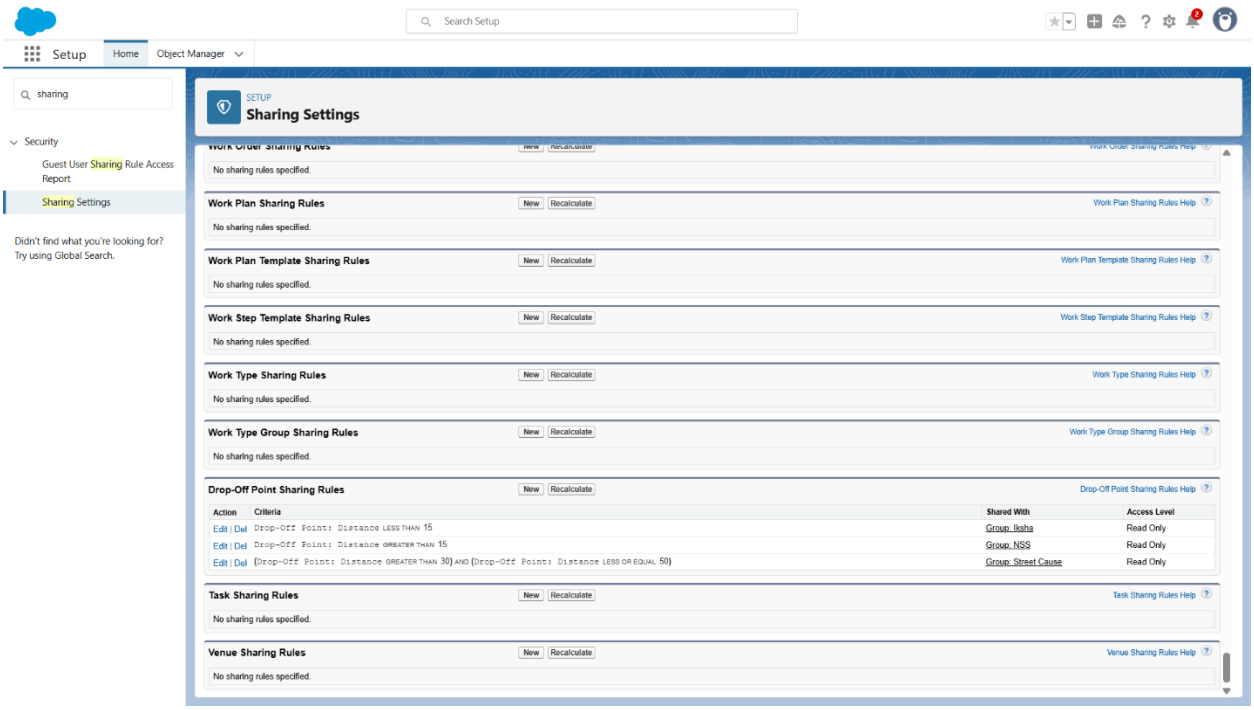

Search...
FoodConnect
Home
Venues
Drop-Off Points
Tasks
Volunteers
Execution Details
Reports
Dashboards
Reports
Created by Me
3 items
Search reports created by me...
New Report
New Folder
REPORTS
Recent
Created by Me
Private Reports
Public Reports
All Reports
FOLDERS
All Folders
Created by Me
Shared with Me
FAVORITES
All Favorites
Report Name
Description
Folder
Created By
Created On
Subscribed
venue and Drop Off point
Custom Reports
Joel Jacob
9/13/2025, 7:26 AM
Volunteer Task
Custom Reports
Joel Jacob
9/13/2025, 12:26 PM
Volunteer Task
Custom Reports
Joel Jacob
9/13/2025, 12:29 PM

12.Dashboard

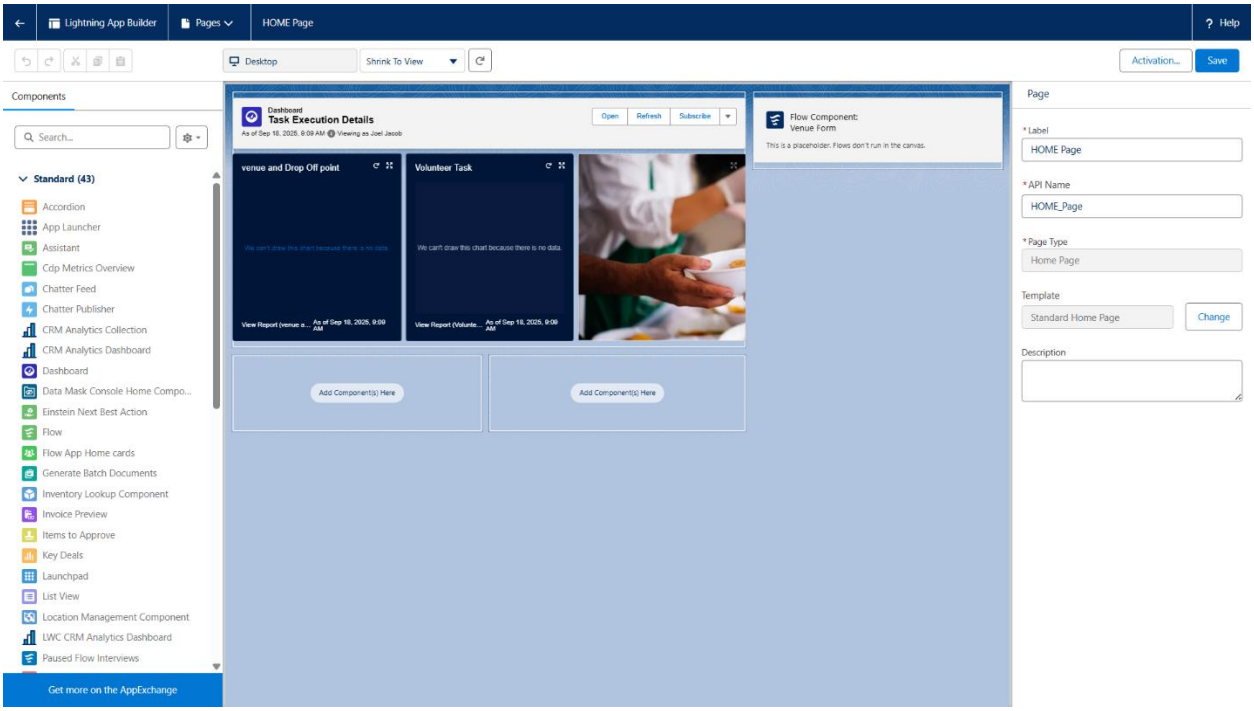


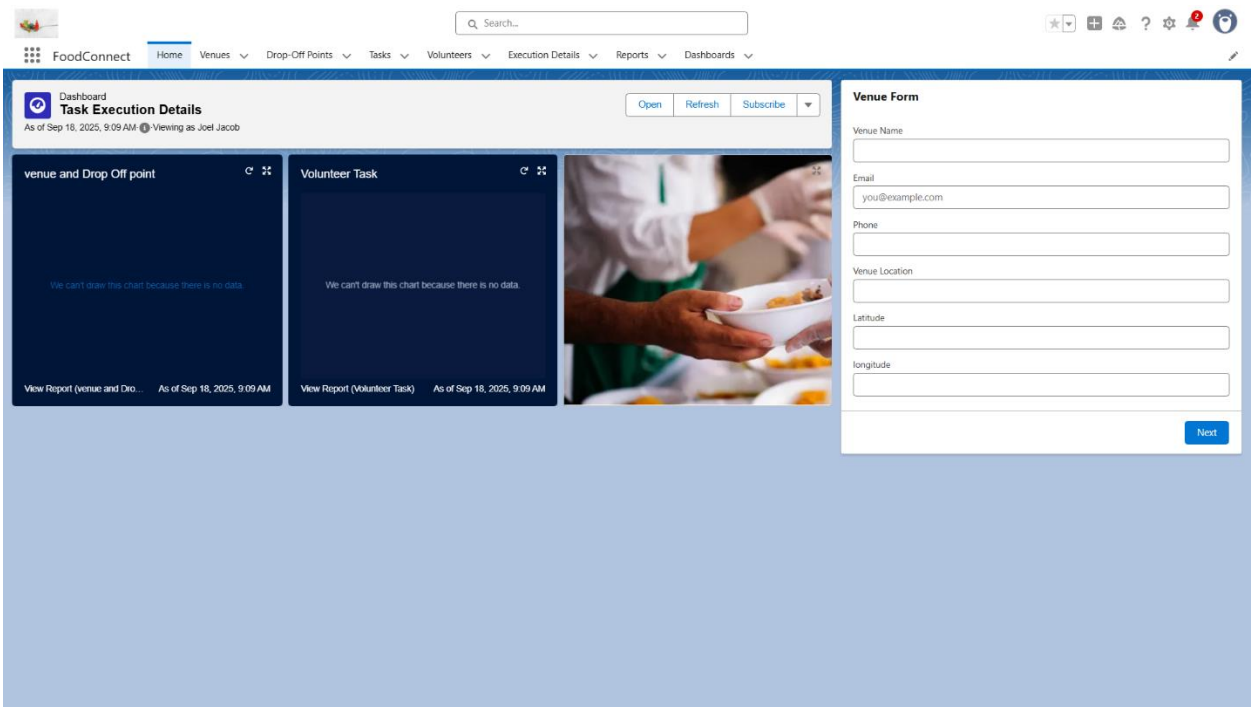


13.Creation of Sharing Tools



14.Creation of Home Page




Search...
FoodConnect
Home
Venues
Drop-Off Points
Tasks
Volunteers
Execution Details
Reports
Dashboards
Dashboard
Task Execution Details
As of Sep 18, 2025, 9:09 AM · Viewing as Joel Jacob
Open
Refresh
Subscribe
venue and Drop Off point
We can't draw this chart because there is no data.
View Report (venue and Dro...
As of Sep 18, 2025, 9:09 AM
Volunteer Task
We can't draw this chart because there is no data.
View Report (Volunteer Task)
As of Sep 18, 2025, 9:09 AM
Venue Form
Venue Name
Email
you@example.com
Phone
Venue Location
Latitude
longitude
Next

Conclusion

This project has shown how the Salesforce platform can be effectively used to build a transparent and efficient system for managing surplus food donations. By ensuring smooth coordination with volunteers, proper tracking of resources, and timely delivery to those in need, the solution not only helped reduce food wastage but also contributed to addressing hunger in a structured way.

The initiative, “To Supply Leftover Food to Poor Using Salesforce,” highlights the real-world impact of CRM technology when applied for social good, proving its ability to streamline processes and promote accountability.

Key Achievements:

- Simplified the collection and distribution of leftover food.
- Enabled real-time interaction among donors, volunteers, and NGOs.
- Implemented automation using custom objects, fields, Flows, and Apex triggers.
- Strengthened transparency through reports, dashboards, and role-based security.
- Enhanced user experience with customized Lightning App and Home Page.

Student Outcomes:

- Practical knowledge in Salesforce development and CRM customization.
- Stronger problem-solving through handling real-time operational challenges.
- Improved teamwork during requirement gathering, development, and testing.
- Exposure to professional tools, workflows, and project lifecycle practices.

Future Enhancements:

- Mobile integration for better accessibility to donors and volunteers.
- Use of AI and analytics to forecast demand and improve allocation.
- Wider collaboration with NGOs, hotels, and community kitchens.