

ProjectTitle:ToSupplyLeftoverFoodtoPoor Category:

Salesforce

SkillsRequired:SalesforceDeveloper

1. ProjectOverview

ProjectObjectives and Goals

Objective: This project aims to develop a Salesforce-based application designed to manageandstreamlinethedistributionofleftoverfoodtounderservedcommunities. The primary goal is to enhance the efficiency of food drop-offs, coordinate tasks, managevolunteers,andgenerateinsightfulreports.

2. DetailedDescriptionofImplementedFeatures

CustomObjects

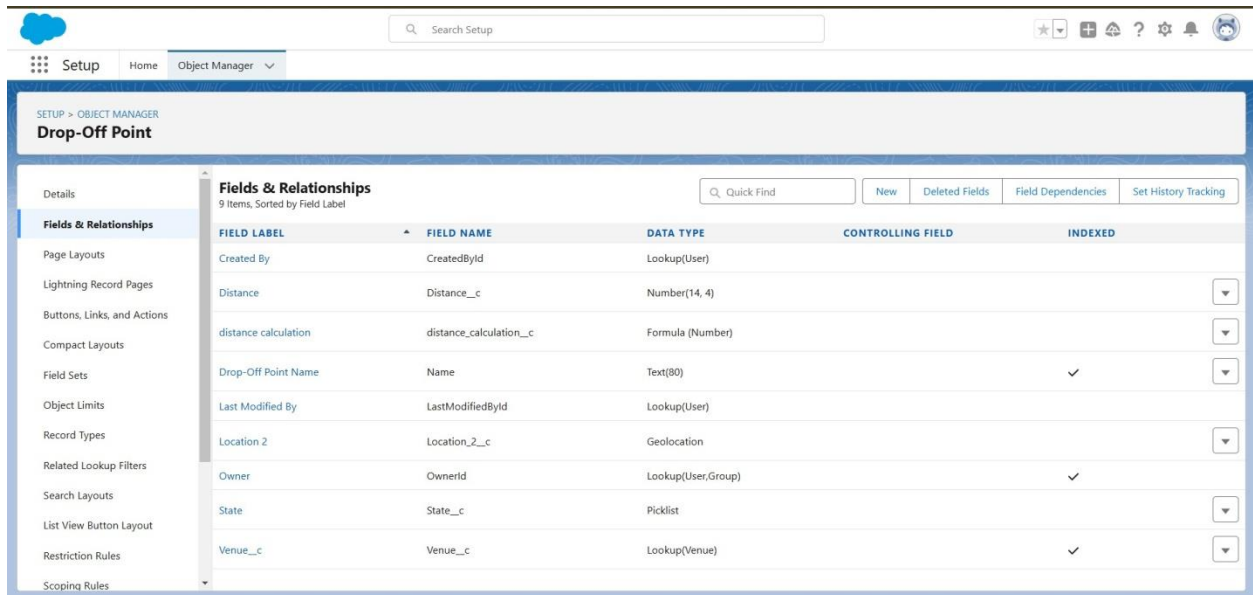
1. Drop-OffPoint:

■ Purpose:TheDrop-OffPointobjectcapturesessentialdetailsaboutlocations wherefoodisdroppedoff.This helpsintrackingandmanagingfooddistribution points effectively.

■ Fields:

- Drop-OffPointName: Atextfieldrepresentingthenameofthedrop-off point.
- LocationDetails: Atextfieldforadditionaldetailsaboutthedrop-offpoint location.
- Distance: Anumberfieldthatrecordsthedistancefromthedrop-offpoint to the delivery area.

- Venue: A lookup relationship field linking to the Venue object to provide a connection between drop-off points and venues.



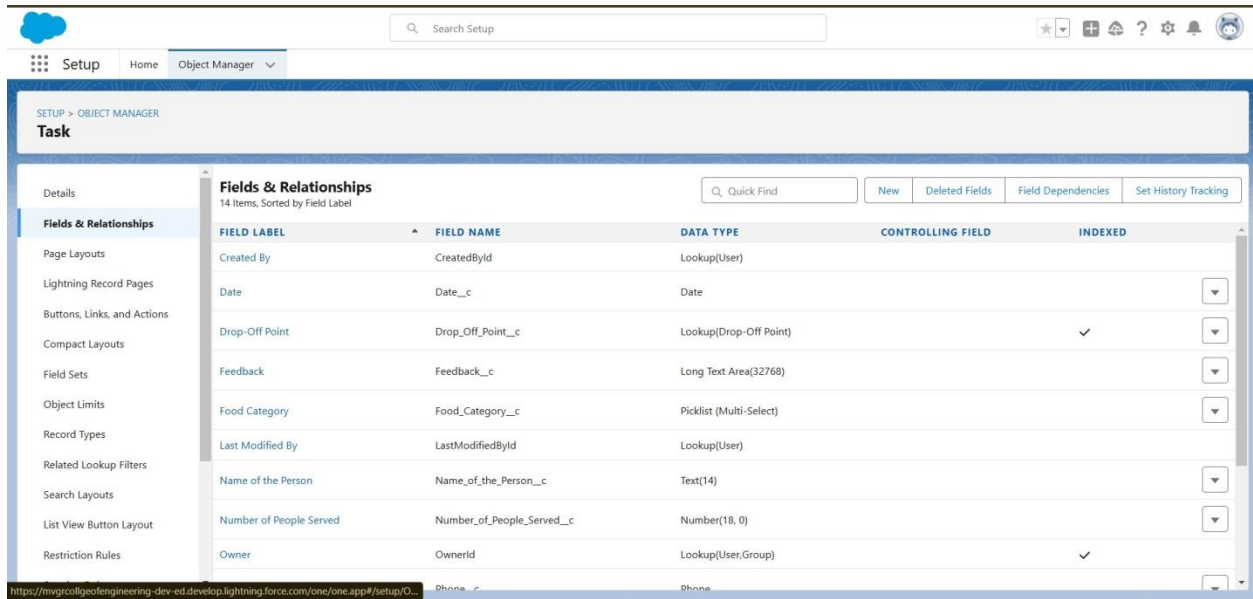
FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Distance	Distance__c	Number(14, 4)		
distance calculation	distance_calculation__c	Formula (Number)		
Drop-Off Point Name	Name	Text(80)		✓
Last Modified By	LastModifiedById	Lookup(User)		
Location 2	Location_2__c	Geolocation		
Owner	OwnerId	Lookup(User,Group)		✓
State	State__c	Picklist		
Venue__c	Venue__c	Lookup(Venue)		✓

2. Task:

■ Purpose: The Task object is used to manage and track various tasks related to food distribution, including assigning tasks to volunteers and recording task details.

■ Fields:

- TaskName: A text field representing the name of the task.
- Date: A date field indicating when the task is scheduled or completed.
- Rating: A numeric field used to rate the task performance.
- Drop-Off Point: A lookup relationship field linking to the Drop-Off Point object to associate tasks with specific drop-off points.
- Sponsored By: A lookup relationship field linking to the Drop-Off Point object to indicate the sponsor of the task.



Setup > OBJECT MANAGER

Task

Details

Fields & Relationships
14 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		
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)		
Name of the Person	Name_of_the_Person__c	Text(14)		
Number of People Served	Number_of_People_Served__c	Number(18, 0)		
Owner	OwnerId	Lookup(User,Group)		✓
Phone	Phone__c	Phone		

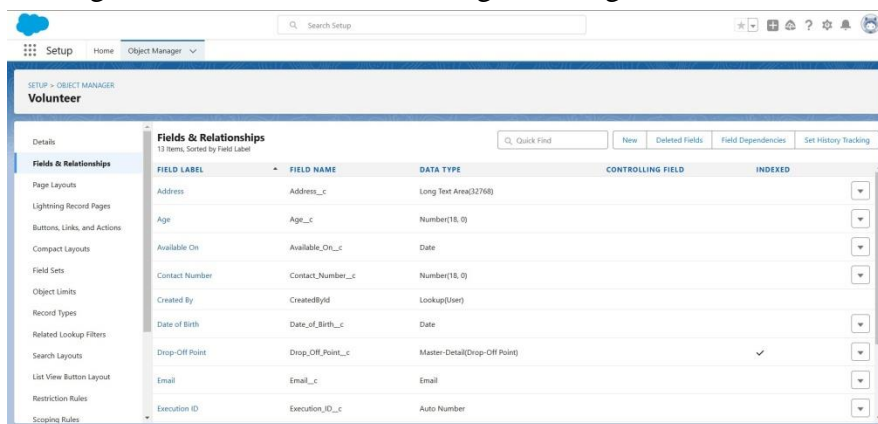
https://mgcollgeofengineering-dev-ed.develop.lightning.force.com/one/app#/setup/O...

3. Volunteer:

■ Purpose: The Volunteer object keeps track of individuals who are involved in the food distribution process, including their contact information and assigned tasks.

■ Fields:

- VolunteerName: A text field for the name of the volunteer.
- ContactEmail: An email field for the volunteer's contact email.
- ContactPhone: A phone field for the volunteer's contact number.
- AssignedTasks: A related list showing tasks assigned to the volunteer



Setup > OBJECT MANAGER

Volunteer

Details

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
Address	Address__c	Long Text Area(32768)		
Age	Age__c	Number(18, 0)		
Available On	Available_On__c	Date		
Contact Number	Contact_Number__c	Number(18, 0)		
Created By	CreatedById	Lookup(User)		
Date of Birth	Date_of_Birth__c	Date		
Drop-Off Point	Drop_Off_Point__c	Master-Detail(Drop-Off Point)		✓
Email	Email__c	Email		
Execution ID	Execution_ID__c	Auto Number		

4. ExecutionDetail:

■ Purpose: The ExecutionDetail object captures detailed information about food distribution activities, including which volunteers and task are associated with each distribution.

■ Fields:

- ExecutionDetailName: A text field for naming the execution detail record.
- Volunteer: A master-detail relationship field linking to the Volunteer object to associate execution details with a specific volunteer.
- Task: A master-detail relationship field linking to the Task object to associate execution details with a specific task.
- Details: A text field for additional information about the execution.

The screenshot shows the Salesforce Setup interface. At the top, there's a navigation bar with 'Setup' and 'Object Manager' tabs. The 'Object Manager' tab is active, and the 'Execution Detail' object is selected. The left sidebar contains a list of setup categories, with 'Fields & Relationships' highlighted. The main content area displays the 'Fields & Relationships' section for the 'Execution Detail' object. It shows a table with 5 items, sorted by Field Label. The table has columns for Field Label, Field Name, Data Type, Controlling Field, and Indexed. The fields listed are: Created By (Lookup(User)), Execution Detail Name (Text(80)), Last Modified By (Lookup(User)), Task (Master-Detail(Task)), and Volunteer (Master-Detail(Volunteer)).

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)		
Task	Task__c	Master-Detail(Task)		✓
Volunteer	Volunteer__c	Master-Detail(Volunteer)		✓

ObjectRelationships

- Master-DetailRelationships:

- ExecutionDetailtoVolunteer:Ensuresthat each execution detail record is linked to a volunteer, making volunteer information essential for each distribution record.

- ExecutionDetailtoTask:Ensuresthat each execution detail record is linked to a task, making task information essential for each distribution record.

- LookupRelationships:

- TasktoDrop-OffPoint:Connecttaskstodrop-offpoints,providingcontexton where each task is executed.

- TasktoVolunteer:Connecttaskstovolunteers,enablingtrackingofwhich volunteer is responsible for each task.

- Drop-OffPointtoVenue:Linksdrop-offpointstovenues,facilitatingadetailed understanding of where food is being dropped off.

SharingRules

Toensurethatrecordsaresharedappropriatelybasedondistancecriteria,thefollowing sharing rulesweresetup:

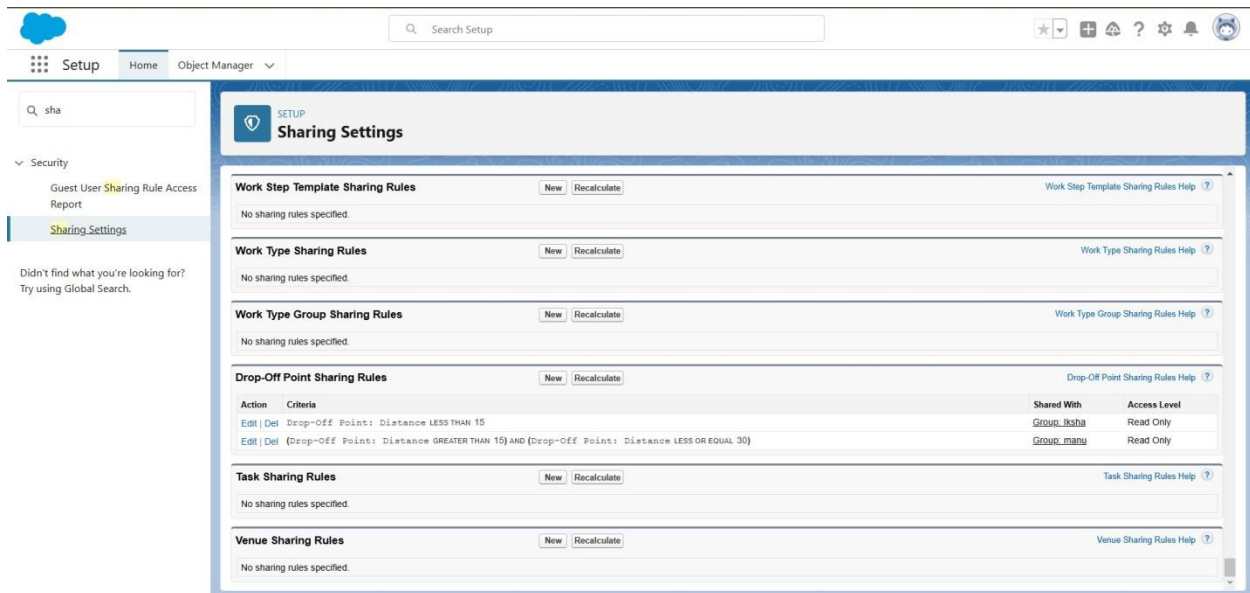
- Rule1:

- Label:Rule1

- Criteria:Recordswherethedistanceislessthan15km

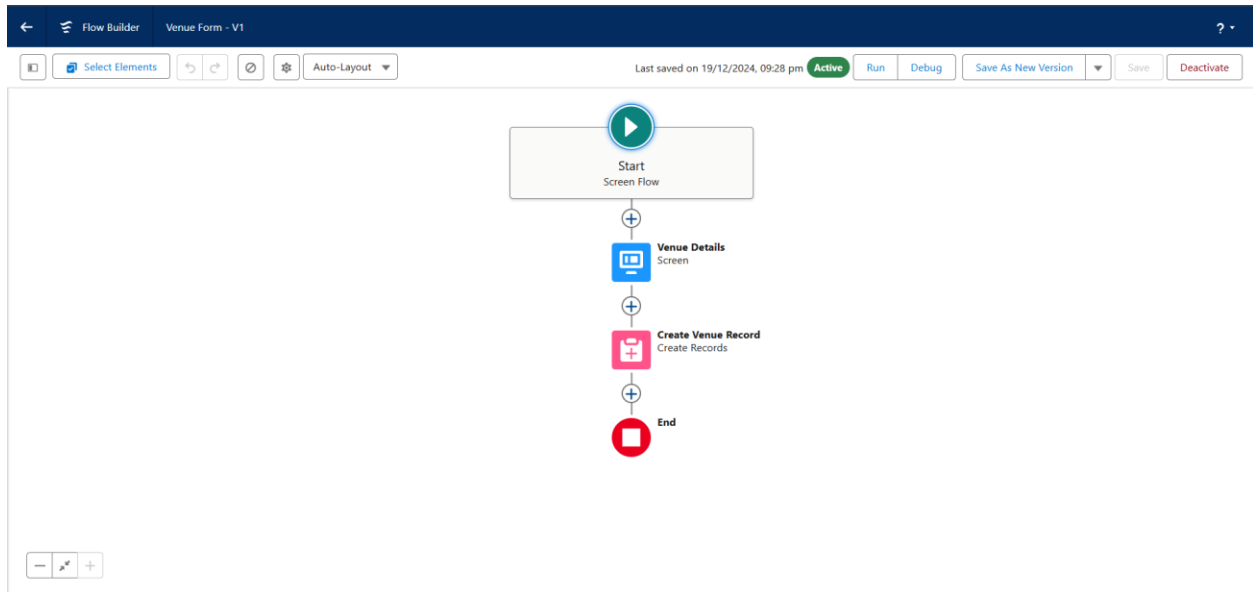
- Access:SharedwithPublicGroup-Iksha

- Rule2:
- Label:Rule2
- Criteria:Recordswherethedistanceisbetween15kmand30km
- Access:SharedwithPublicGroup-NSS



FlowandDashboard

- Flow:VenueFlow
- Purpose:Tomanageandcaptureddetailedinformationrelatedtofooddrop-off points.
- Components:
 - TextComponent:Forenteringthevenue name.
 - EmailComponent:Forenteringthecontactemailofthevenue.
 - PhoneComponent:Forenteringthecontactphonenumberofthevenue.
 - TextComponent:Forenteringthevenue location.
 - NumberComponents:Forenteringlatitudeandlongitudevaluesofthevenue.



- Dashboard:

- Name: OrganizationDetails

- Components:

- LightningTable: Displays detailed information about venues and drop-off points, facilitating a comprehensive view of the data.

The image is a screenshot of the 'FoodConnect' dashboard. The top navigation bar includes a search bar and a menu with 'Home', 'Venues', 'Tasks', 'Drop-Off Points', 'Execution Details', 'Volunteers', 'Reports', and 'Dashboards'. The main content area is titled 'Dashboard Organization Details' and includes 'Open', 'Refresh', and 'Subscribe' buttons. It features two data tables: 'venue and Drop Off point' and 'Volunteer Task'. The 'venue and Drop Off point' table has columns for 'Venue Name', 'Drop-Off Point Name', and 'Date', with one row showing 'NONOTAL HOTEL' and 'daily'. The 'Volunteer Task' table is currently empty. To the right is a 'Venue Form' with input fields for 'Venue Name', 'Email', 'Phone', 'Venue Location', 'Latitude', and 'Longitude', followed by a 'Next' button.

3. ConfigurationandSetupInstructions

CreatingCustomObjects

1. Drop-OffPoint:

- NavigatetoObjectManager>Create>CustomObject.
- Enterdetailssuchasthelabelname,recordname,andothersettingsforDrop Off Point.

2. Task:

- NavigatetoObjectManager>Create>CustomObject.
- Enterdetailssuchasthelabelname,recordname,andothersettingsforTask.

3. Volunteer:

- NavigatetoObjectManager>Create>CustomObject.
- Enterdetailssuchasthelabelname,recordname,andothersettingsfor Volunteer.

4. ExecutionDetail:

- NavigatetoObjectManager>Create>CustomObject.
- Enterdetailssuchasthelabelname,recordname,andothersettingsfor Execution

Detail.

SharingRulesSetup

- GotoSharingSettings.
- DefinewnewsharingrulesforDrop-OffPointbasedondistancecriteria,ensuring appropriate access for different public groups.

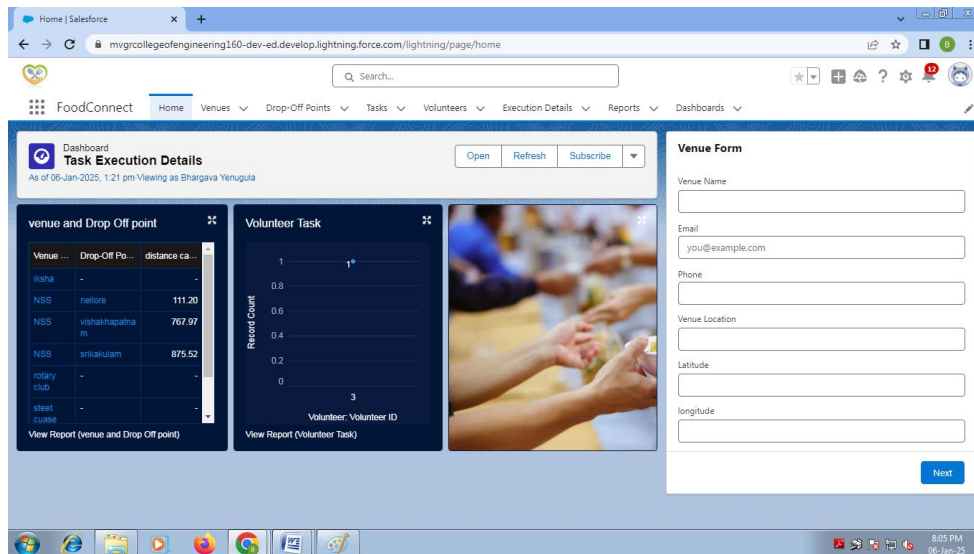
LightningAppBuilder

1. CreateHomePage:

- GotoLightningAppBuilder>New.
- SelectHomePageandnameit"HOMEPage".
- AddFlowandDashboardcomponentstothe page.

2. SaveandActivate:

- ClickonSaveandActivation.
- SetthepageasthedefaultfortheFoodConnectapp.



ReportTypesandDashboards

1. CustomReportTypes:

- CreatereporttypesforVenuewithDrop-OffwithVolunteerandVolunteerswith Execution Details and Tasks.

2. Reports:

- Generateandconfigurereportsusingthecustomreporttypestotrackand

analyse relevant data.

3. Dashboards:

- Configured dashboards to visualise data from reports and other components, providing insights into the overall distribution process.

4. Deliverables

- Code Files: Include Apex triggers and any other code implemented.
- Output Screenshots: Provide screenshots of custom objects, flows, dashboards, and reports to illustrate the setup.
- Project Documentation: Detailed descriptions of implemented features, configurations, and setup instructions.
- Project Demonstration Video: A video showcasing the functionality of the application, including key features and processes.