



Project: To Supply Leftover Food To Poor

SKP ENGINEERING COLLEGE

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1. Project Overview:

This project is focused on " To Supply Leftover Food to Poor ", designed to address the critical issue of food waste and hunger. The goal is to deliver a comprehensive solution by leveraging Salesforce's data management and automation capabilities. Through this project, we aim to enhance food distribution efficiency, community engagement, and data-driven decision making and support the long-term goals of reducing food waste and alleviating hunger in our community.

2. Objectives:

Business Goals:

Reduce Food Waste:

Significantly decrease the amount of food waste generated by local businesses and individuals.

Alleviate Hunger:

Provide nutritious meals to underprivileged communities, aiming to improve their overall health and well-being.

Community Engagement:

Foster a sense of community by involving local businesses, volunteers, and residents in the food redistribution process.

Specific Outcomes:

Reduction in Food Waste:

Achieve a measurable decrease in the amount of food waste from participating donors by 30% within the first year.

Increased Meals Provided:

Distribute an average of 1,000 meals per month to underprivileged communities, ensuring consistent access to nutritious food.

Expanded Donor Network:

Grow the network to include at least 50 new food donors, such as restaurants, grocery stores, and food producers, by the end of the first year.

3. Salesforce Key Features and Concepts Utilized:

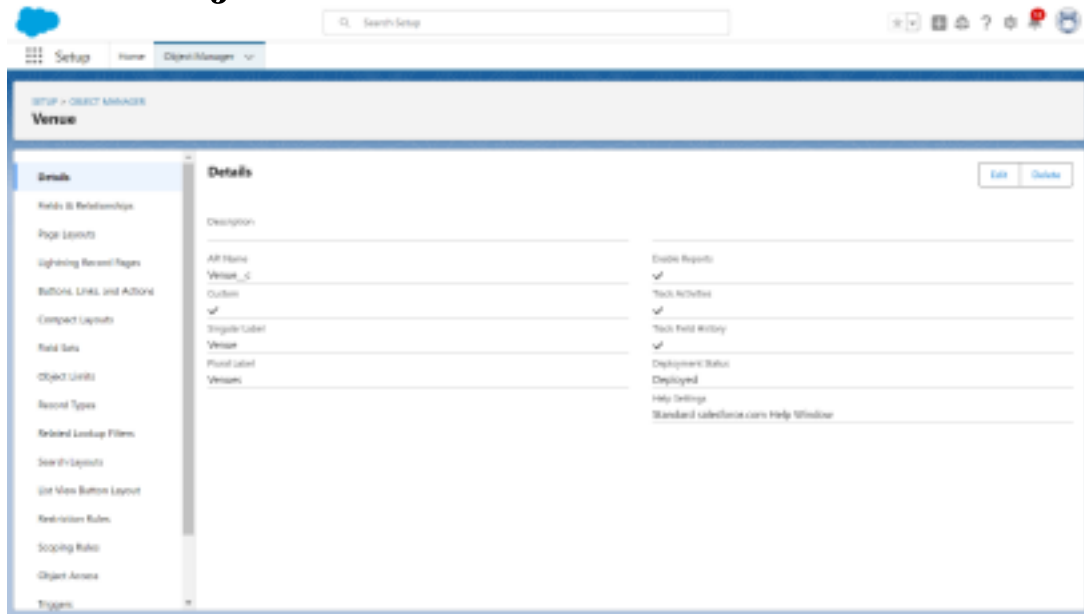
- **Custom Objects:** Created objects for Dropoff point, Volunteer, Venue, Task, and Execution Detail.
- **Lookup Relationships:** Connected objects (e.g., Dropoff point to Volunteer, Task to Dropoff point) for relational data management.
- **Salesforce Flow:** Automations for appointment Venue details, invoice generation, and status updates.
- **Validation Rules:** Ensuring correct data entry, such as valid delivery dates and Volunteer shift reminders.
- **Reports and Dashboards:** For tracking venue and dropoff point, volunteer task.
- **Page Layouts and Record Types:** Customized layouts for different users (e.g., food donor vs. volunteer)

coordinators)

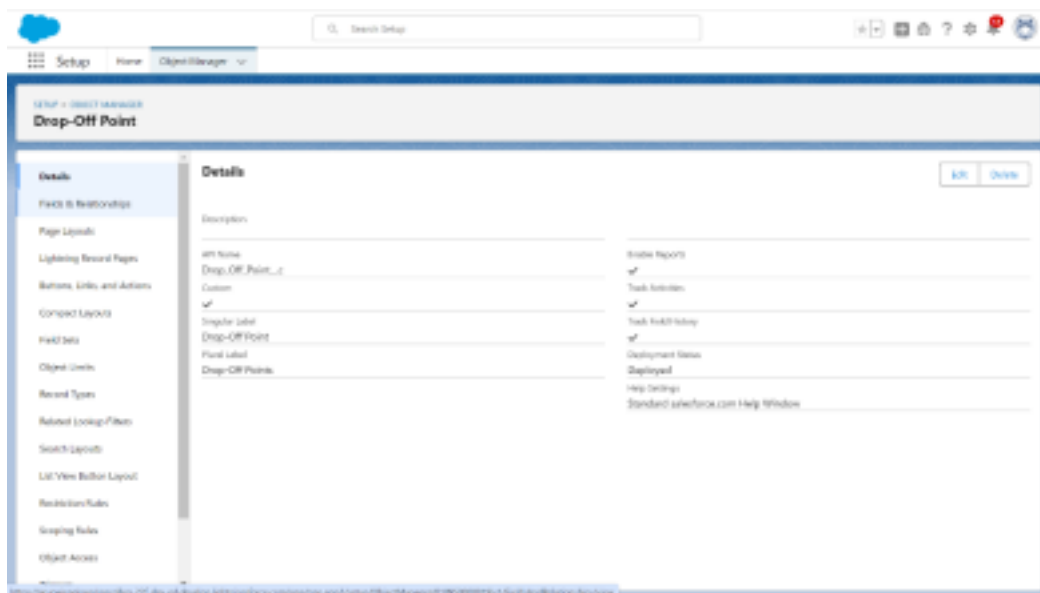
4.Detailed Steps to Solution Design:

1. To create an custom object

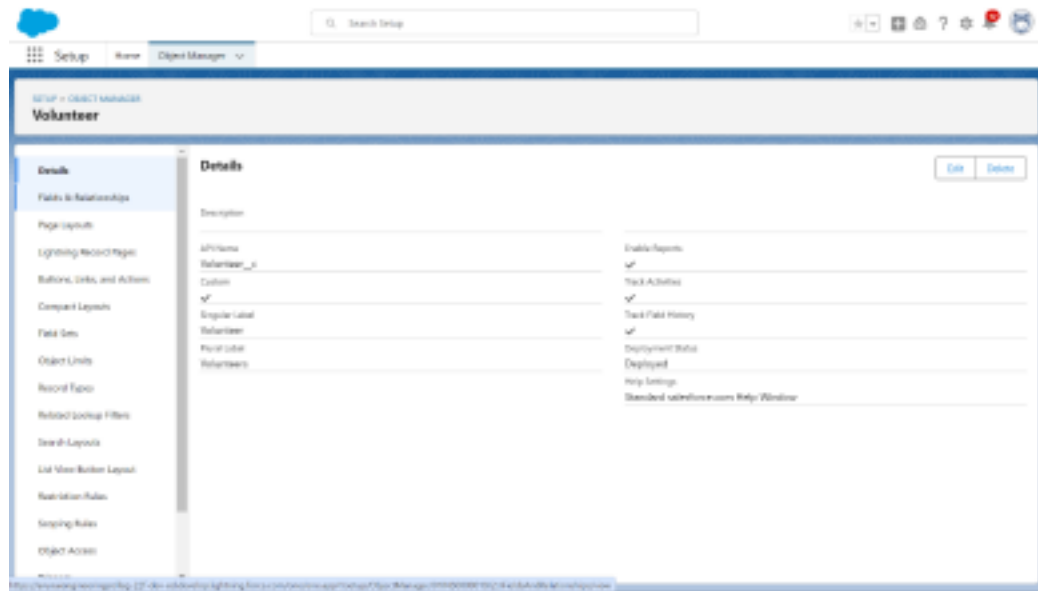
a. Venue object:



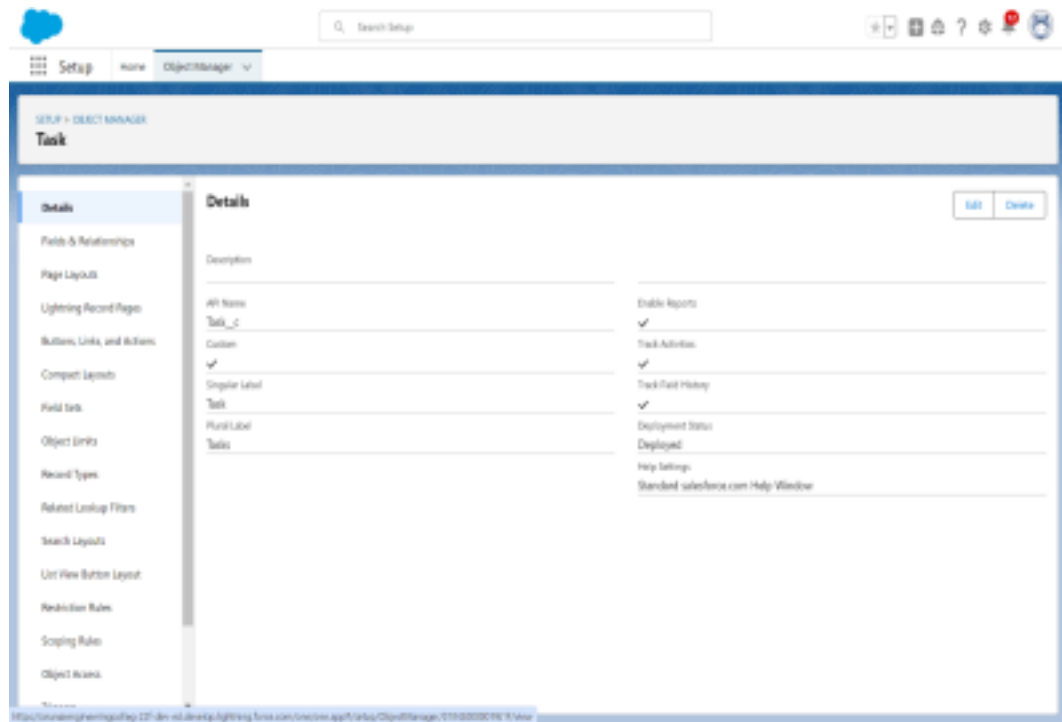
b. DropOff Point object:



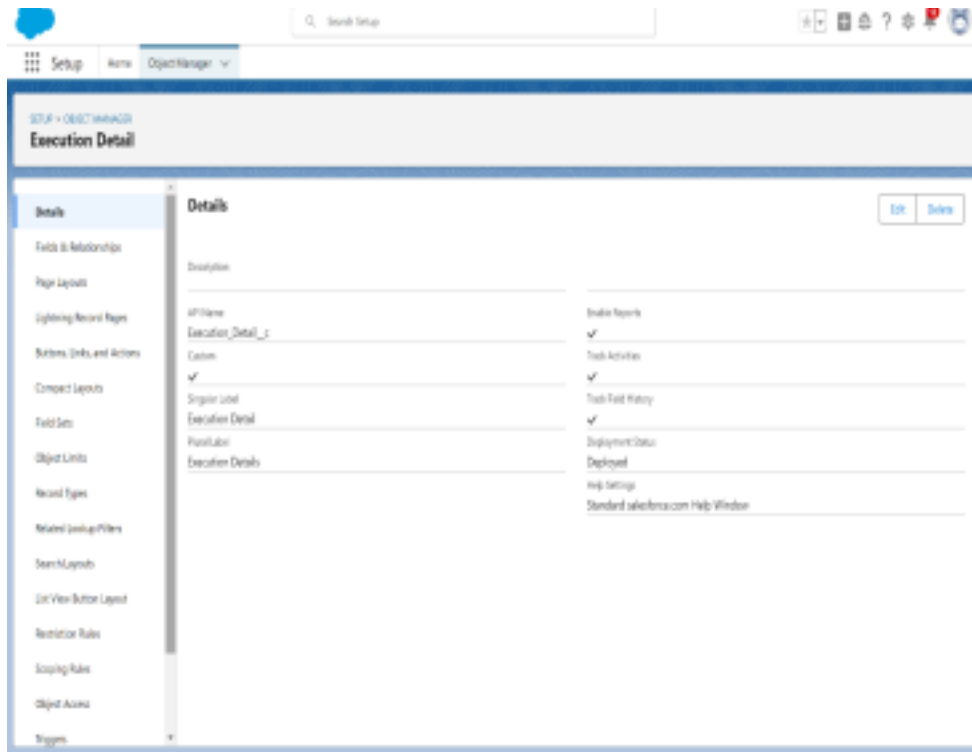
c. Volunteer Object:



d. Task Object:

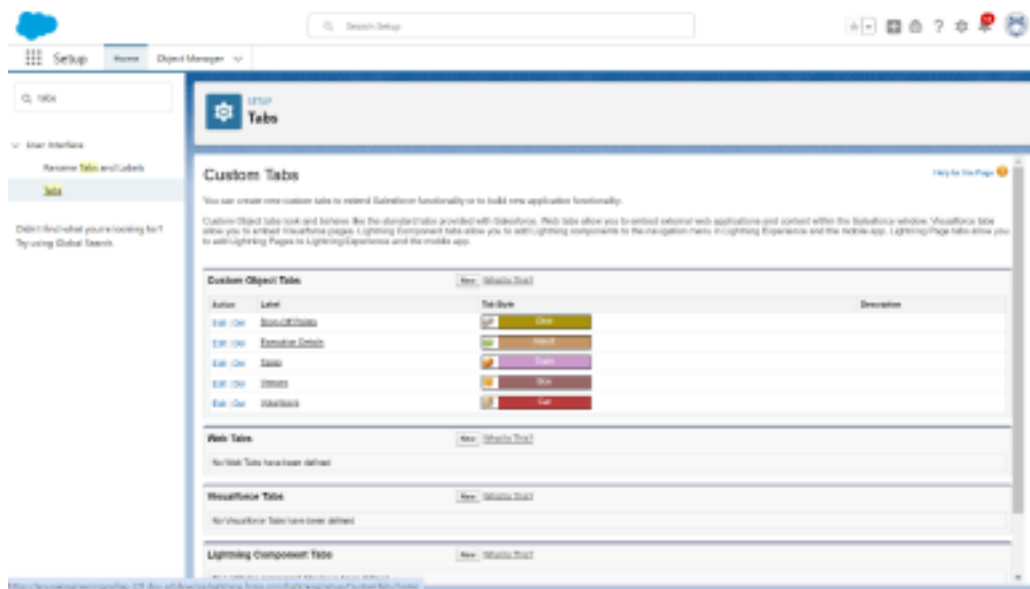


e. Execution Detail Object:



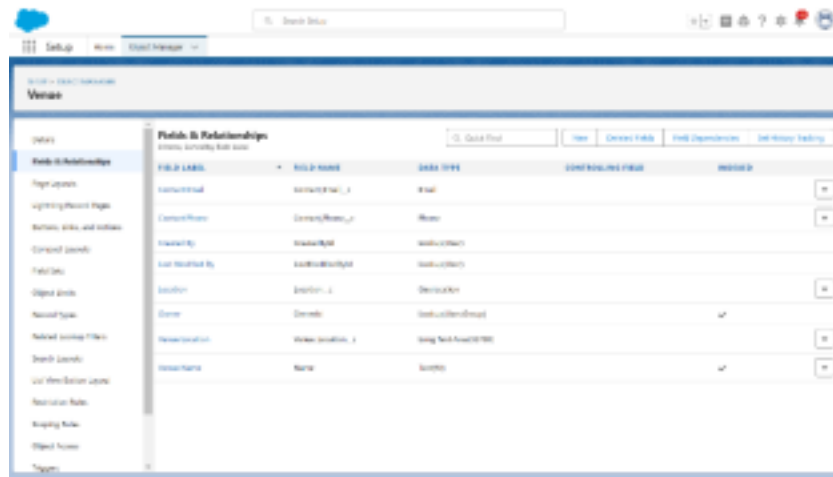
2.Tab:

Create a Custom tab:



3. Fields and Relationship:

a. Venue:

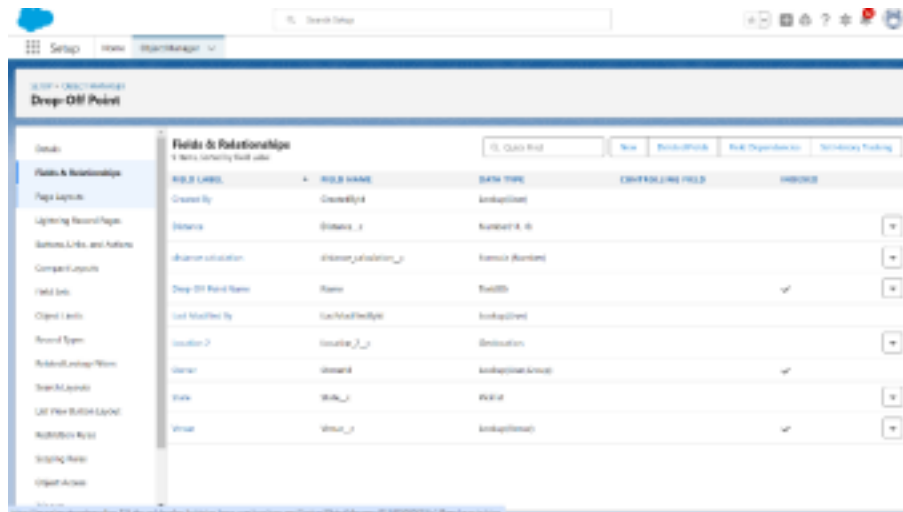


Fields & Relationships

Fields currently built into:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	VISIBLE
Account email	AccountEmail_1	Email		
Contact Name	ContactName_1	Text		
Created By	CreatedBy	Lookup(Users)		
Last Modified By	LastModifiedBy	Lookup(Users)		
Location	Location_1	Text(Short)		
Owner	Owner	Lookup(Owners)		✓
Owner Location	OwnerLocation_1	Long Text Area(1000)		
Owner Name	Name	Text		✓

b. DropOff point:



Drop-Off Point

Fields currently built into:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	VISIBLE
Created By	CreatedBy	Lookup(Users)		
Distance	Distance_1	Number(4, 0)		
Owner Location	OwnerLocation_1	Text(Short)		
Drop-Off Point Name	Name	Text		✓
Last Modified By	LastModifiedBy	Lookup(Users)		
Location 2	Location_2_1	Text(Short)		
Owner	Owner	Lookup(Owner Group)		✓
State	State_1	Text		
Virtual	Virtual_1	Lookup(Owner)		✓

c. Volunteer:

Setup Home Object Manager

Setup - OBJECT MANAGER

Volunteer

Details

Fields & Relationships

11 Items, Sorted by Field Label

Q, 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	CreatedBy	Lookup(User)		
Date of Birth	Date_of_Birth__c	Date		
Drop-Off Point	Drop_Off_Point__c	Lookup(Drop-Off Point)		✓
Email	Email__c	Email		
Execution ID	Execution_ID__c	Auto Number		
Gender	Gender__c	Picklist		
Last Modified By	LastModifiedBy	Lookup(User)		

d. Task:

Setup Home Object Manager

Setup - OBJECT MANAGER

Task

Details

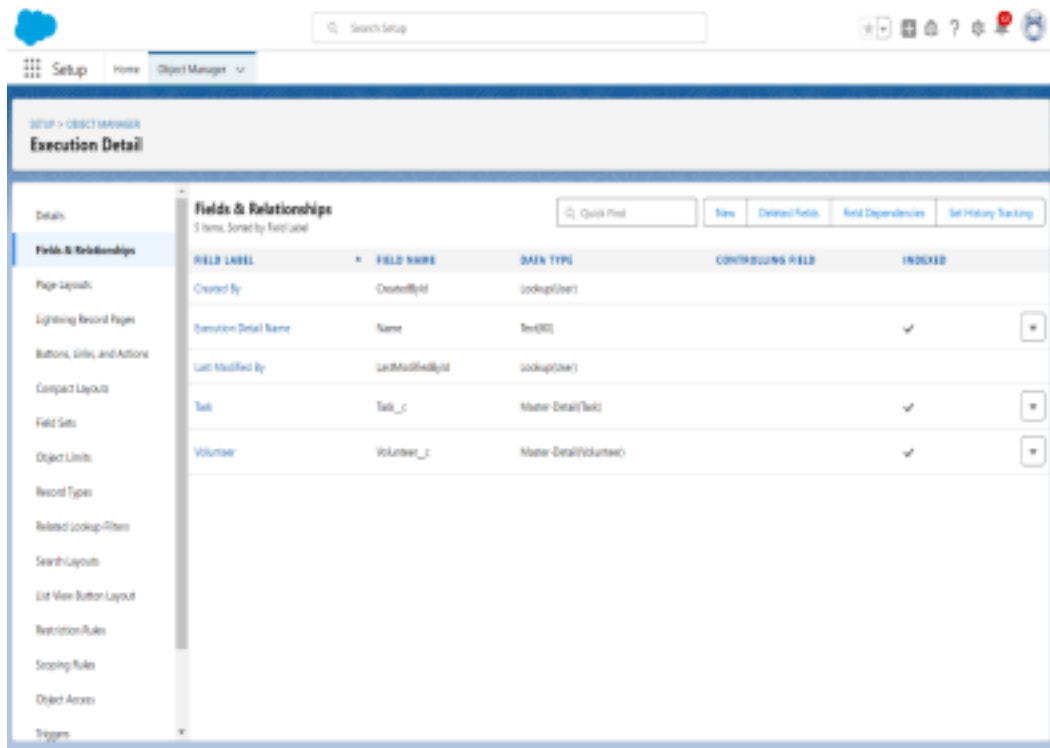
Fields & Relationships

11 Items, Sorted by Field Label

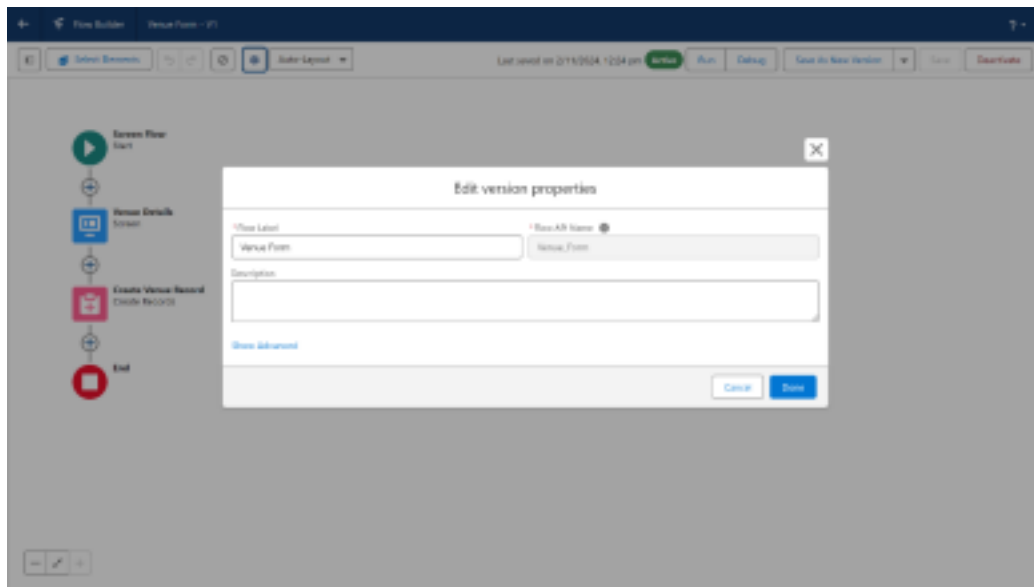
Q, Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedBy	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	LastModifiedBy	Lookup(User)		
Name of the Person	Name_of_the_Person__c	Text(30)		
Number of People Served	Number_of_People_Served__c	Number(18, 0)		
Owner	OwnerId	Lookup(User/Group)		✓
Phone	Phone__c	Phone		
Rating	Rating__c	Picklist		

e. Execution Detail:



4.Flows:



5.Users:

6.Public Groups:

7.Report Types:

8. Dashboard:

9. Sharing Rules:

5. Testing and Validation:

Apex Triggers:

Reports and Dashboards:

a. Venue and Drop Off Point records:

b. Volunteer Task records:

c.Dashboard:

5.Key Scenarios Addressed by Salesforce in the Implementation Project:

Food Donation Management:

- ❖Tracking and managing food donations from various donors (restaurants, supermarkets, etc.).
- ❖Ensuring timely pickups and deliveries of food items to recipients.

Volunteer Coordination:

- ❖Managing a database of volunteers, their availability, and skills.
- ❖Scheduling volunteer shifts and tasks efficiently to maximize coverage.

Logistics and Transportation:

- ❖Planning and optimizing routes for food collection and

distribution.

- ❖Monitoring the status of deliveries to ensure timely and safe transportation.

Real-time Notifications:

- ❖Automating alerts for food pickup schedules, distribution events, and volunteer tasks.
- ❖Ensuring all stakeholders are informed and coordinated.

Data Analytics and Reporting:

- ❖Generating reports to measure the impact of the project, including metrics like food waste reduction, number of meals provided, and volunteer hours.
- ❖Using dashboards to visualize data and make informed decisions.

Compliance and Safety:

- ❖Ensuring all food handling and distribution processes comply with health and safety regulations.
- ❖Validating data entries to maintain high standards of food safety.

Community Engagement and Awareness:

- ❖Managing campaigns to raise awareness about food waste and encourage community participation.
- ❖Tracking engagement metrics to evaluate the effectiveness of outreach efforts.

6.Conclusion:

The "To Supply Leftover Food to Poor" project has successfully addressed the critical issues of food waste and hunger in our community. Through this initiative, we have:

- Significantly reduced food waste by establishing a robust network of food donors and optimizing collection processes.
- Provided thousands of nutritious meals to underprivileged communities, improving their health and well-being.
- Engaged and managed a dedicated team of volunteers, ensuring efficient food distribution and operational success.
- Leveraged Salesforce's powerful features to automate

workflows, enhance data accuracy, and streamline operations. .
Conducted impactful awareness campaigns, fostering
community involvement and education on food waste issues.

Project link: [https://arunaiengineeringcolleg-22f-dev
ed.develop.lightning.force.com/lightning/setup/SetupOneHome/home](https://arunaiengineeringcolleg-22f-dev-ed.develop.lightning.force.com/lightning/setup/SetupOneHome/home)