

Food Connect: To supply Leftover Food to Poor

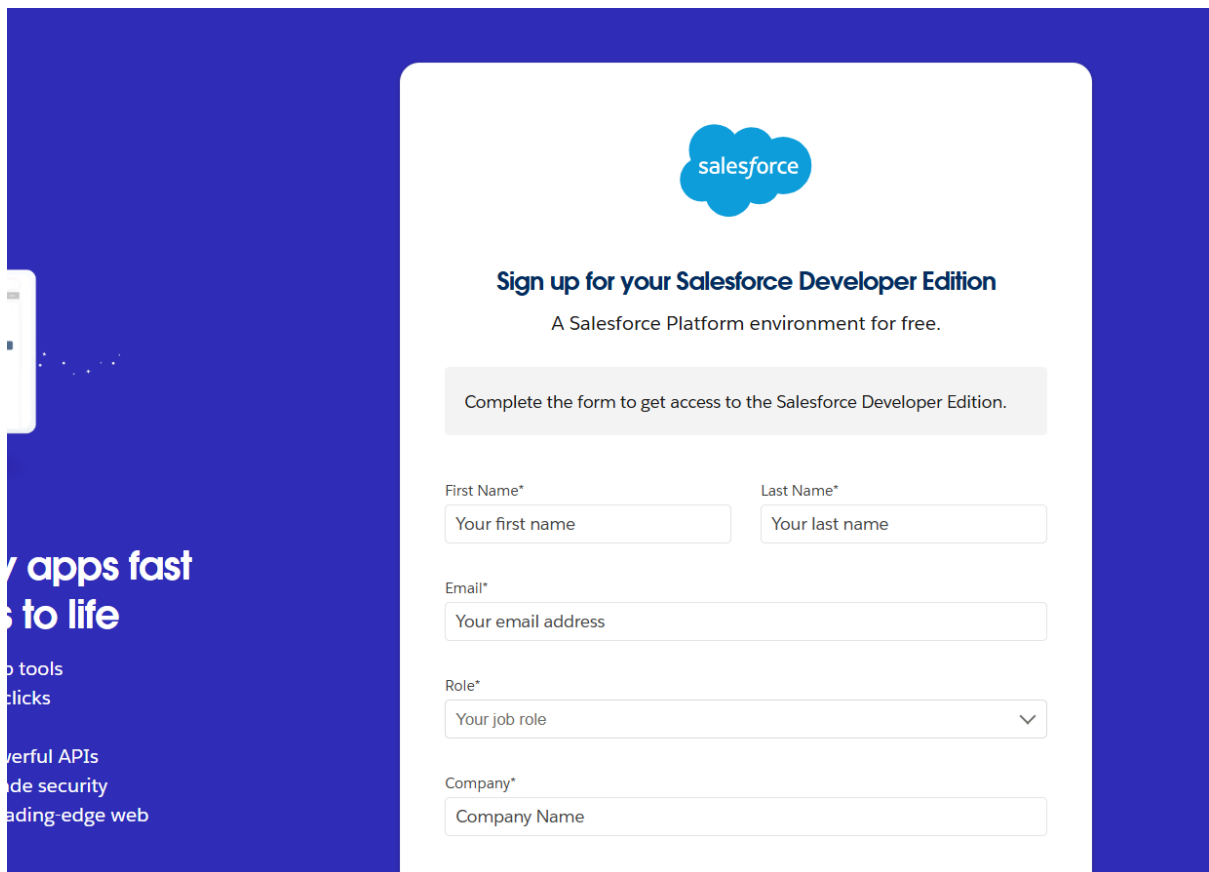
Objective:

This project aims to combat food waste and hunger by bridging surplus food providers (restaurants, grocery stores, and food producers) with underserved communities. The objective is to reduce discarded food and ensure equitable access to nutritious meals.

Step 1: Salesforce Developer Account Setup

1. Sign Up and Activate Your Account:

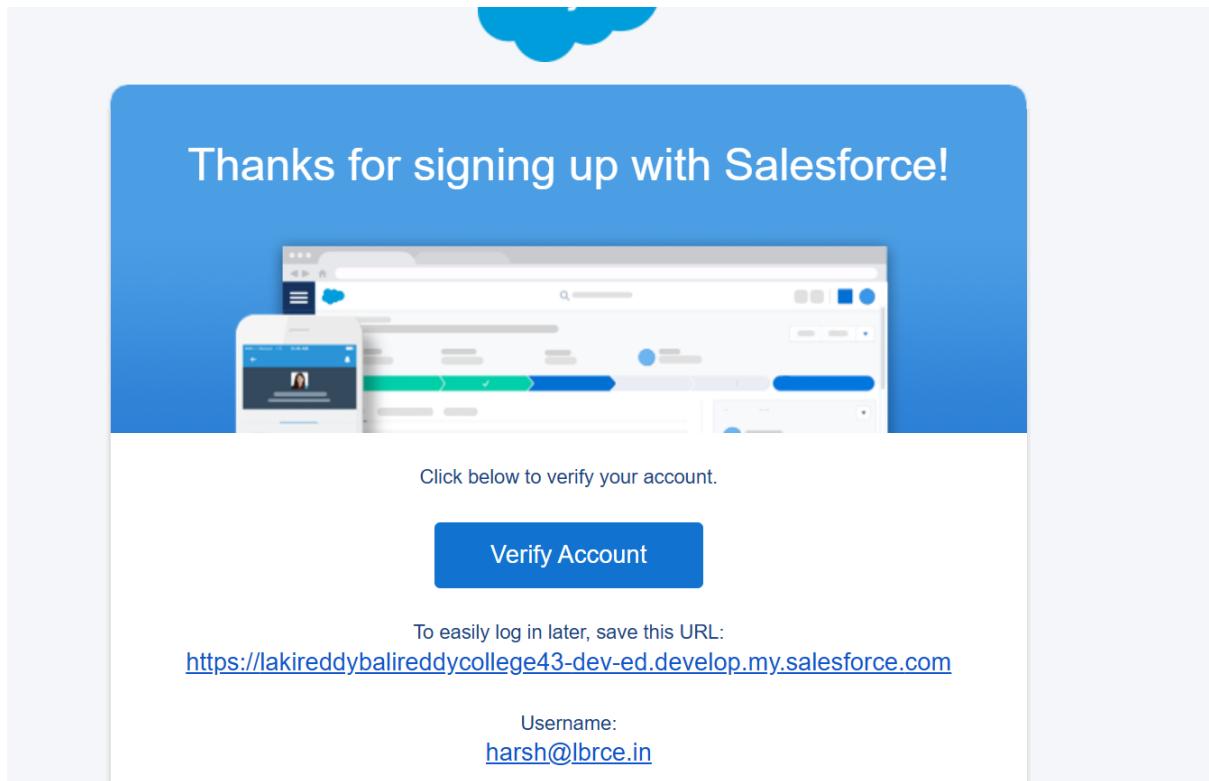
- Visit the Salesforce Developer Signup Page.
- Fill out the required details and submit the form.
- Check your email to verify and activate the account, then set a password.



The image shows a screenshot of the Salesforce Developer Edition signup page. The page has a blue header with the Salesforce logo. Below the logo, the text reads "Sign up for your Salesforce Developer Edition" and "A Salesforce Platform environment for free." There is a light gray box with the text "Complete the form to get access to the Salesforce Developer Edition." The form contains the following fields:

- First Name* (text input with placeholder "Your first name")
- Last Name* (text input with placeholder "Your last name")
- Email* (text input with placeholder "Your email address")
- Role* (dropdown menu with "Your job role" selected)
- Company* (text input with placeholder "Company Name")

On the left side of the page, there is a blue sidebar with white text that reads "y apps fast" and "s to life". Below this, there is a list of features: "p tools", "clicks", "verful APIs", "de security", and "ading-edge web".



Step 2: Creating Custom Objects

1. Venue Object:

- Navigate to Setup > Object Manager > Create > Custom Object and create the Venue object.

2. Drop-Off Point Object:

- Similarly, create the Drop-Off Point object.

3. Task Object:

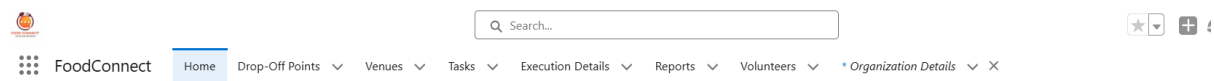
- Create the Task object.

4. Volunteer Object:

- Create the Volunteer object.

5. Execution Details Object:

- Create the Execution Detail object.



Step 3: Adding Tabs for Easy Access

1. Overview:

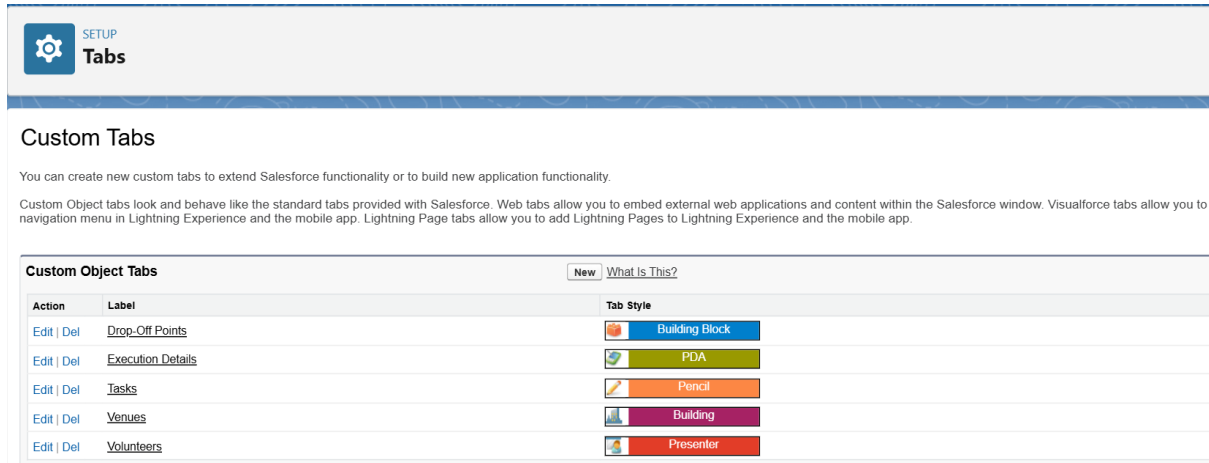
- Tabs let users access and manage custom object data.

2. Create a Custom Tab for Venue:

- Navigate to Setup > Quick Find > Tabs > Custom Object Tabs > New and create a tab for the Venue object.

3. Repeat for Other Objects:

- Create tabs for Drop-Off Point, Task, Volunteer, and Execution Details.



SETUP Tabs

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 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.

Action	Label	Tab Style
Edit Del	Drop-Off Points	Building Block
Edit Del	Execution Details	PDA
Edit Del	Tasks	Pencil
Edit Del	Venues	Building
Edit Del	Volunteers	Presenter

Step 4: Lightning App Creation

1. Create a New Lightning App:

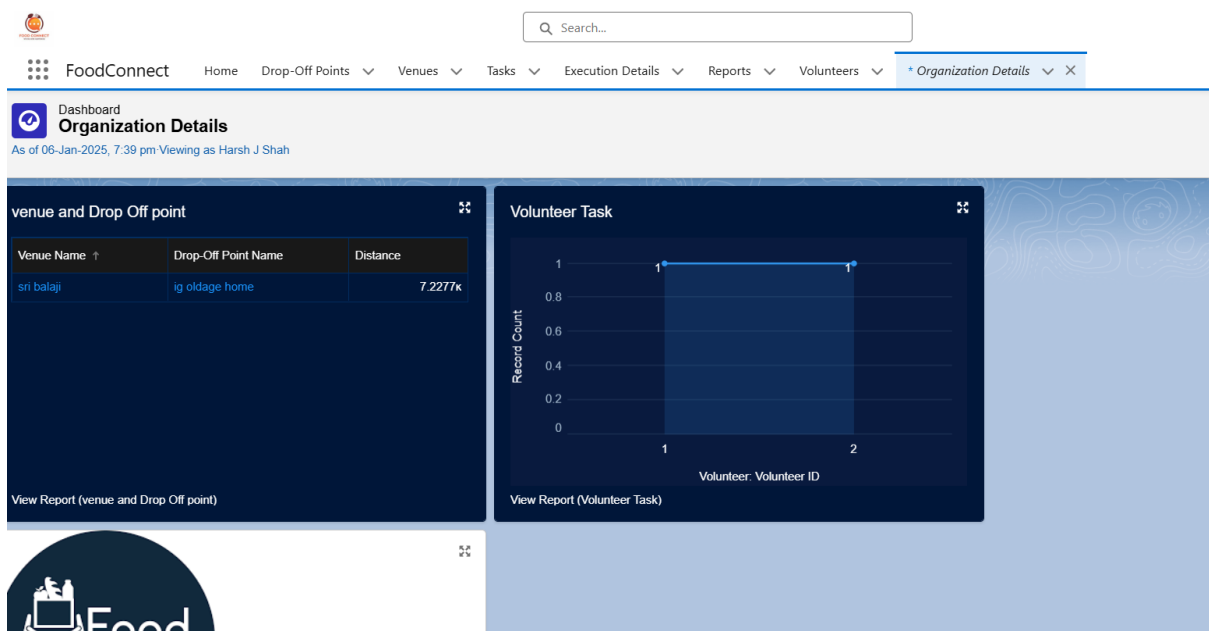
- Go to Setup > Quick Find > App Manager > New Lightning App.
- Add components: Home, Venue, Drop-Off Point, Task, Volunteer, Execution Details, and Reports.

2. Assign User Profiles:

- Assign the System Administrator profile to the app.

3. Finish Setup:

- Click Save & Finish.



FoodConnect Home Drop-Off Points Venues Tasks Execution Details Reports Volunteers Organization Details

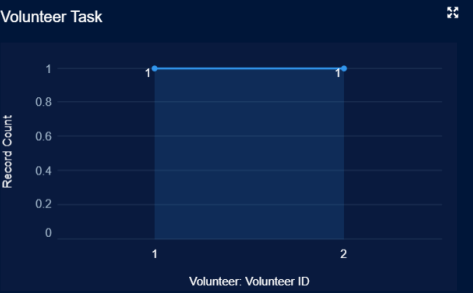
Dashboard **Organization Details**
As of 06-Jan-2025, 7:39 pm-Viewing as Harsh J Shah

venue and Drop Off point


Venue Name ↑	Drop-Off Point Name	Distance
sri balaji	ig oldage home	7.2277k

View Report (venue and Drop Off point)

Volunteer Task



View Report (Volunteer Task)



Step 5: Defining Fields and Relationships

1. Establish Relationships:

- Use Lookup and Master-Detail relationships between Venue, Volunteer, Drop-Off Point, Execution Details, and Task.

2. Create Fields for Data Capture:

- Add fields like Email, Phone, Geolocation, Text Area, Picklist, Auto Number, and Formula.
- Define properties (Length, Decimal Places, Description) for each field.

SETUP > OBJECT MANAGER

Venue

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

Fields & Relationships

8 Items, Sorted by Field Label

Quick Find

FIELD LABEL	FIELD NAME	DATA TYPE
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	Long Text Area(32768)
Venue Name	Name	Text(80)

SETUP > OBJECT MANAGER

Volunteer

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

Scoping Rules

Object Access

Triggers

Flow Triggers

Fields & Relationships

12 Items, Sorted by Field Label

Quick Find

FIELD LABEL	FIELD NAME	DATA TYPE
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(10, 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
Gender	Gender__c	Picklist
Last Modified By	LastModifiedById	Lookup(User)
Volunteer ID	Volunteer_ID__c	Number(18, 0)
Volunteer Name	Name	Text(80)

Drop-Off Point

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

Scoping Rules

Fields & Relationships

9 Items, Sorted by Field Label

Quick Find

FIELD LABEL	FIELD NAME	DATA TYPE
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)

Execution Detail

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Fields & Relationships

6 Items, Sorted by Field Label

Quick Find

FIELD LABEL	FIELD NAME	DATA TYPE
Created By	CreatedById	Lookup(User)
Execution Detail Name	Name	Text(80)
Execution ID	Execution_ID__c	Number(18, 0)
Last Modified By	LastModifiedById	Lookup(User)
Task	Task__c	Master-Detail(Task)
Volunteer	Volunteer__c	Master-Detail(Volunteer)

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

Search Layouts

List View Button Layout

Restriction Rules

Scoping Rules

Object Access

Triggers

Flow Triggers

Fields & Relationships

14 Items, Sorted by Field Label

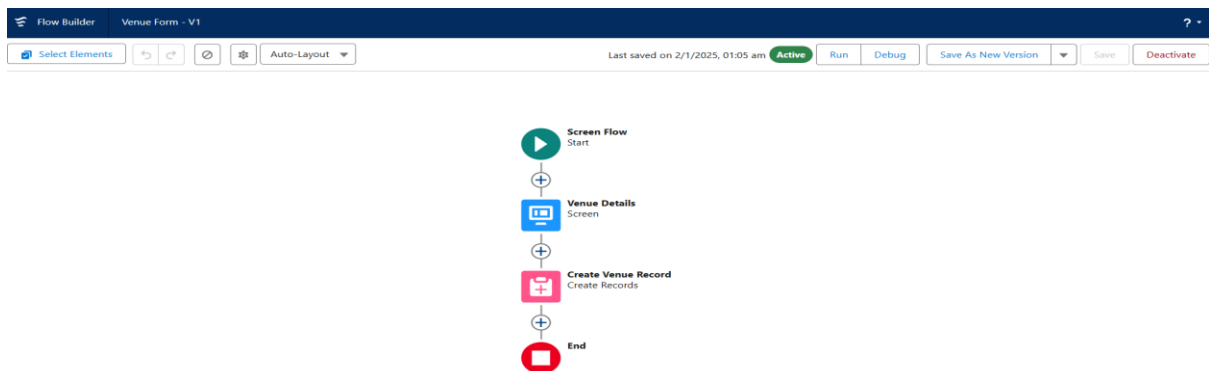
Quick Find

FIELD LABEL	FIELD NAME	DATA TYPE
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(20)
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
Sponsored By	Sponsored_By__c	Lookup(Venue)

Step 6: Flow Creation

1. Designing a Screen Flow:

- Navigate to Setup and create a Screen Flow.
- Add components (Text, Email, Phone, Number, Latitude/Longitude) for the Venue object.
- Include a "Create Record" element to map inputs to the Venue object fields.
- Save and activate the flow as **Venue Form**.



Step 7: Trigger Creation

1. Automating Distance Calculation:

File Edit Debug Test Workspace Help

DropOffTrigger.apxt

Code Coverage: None API Version: 62

```

1 trigger DropOffTrigger on Drop_Off_Point__c (before insert) {
2     for(Drop_Off_point__c Drop : Trigger.new){
3
4         Drop.Distance__c = Drop.distance_calculation__c;
5
6     }
7
8 }

```

Step 8: Profile Creation

1. Create NGOs Profile:

- Clone the Standard Platform User profile.
- Name the new profile **NGOs Profile**.

The screenshot shows the Salesforce Setup interface. The left sidebar has a search bar with 'profi' and a list of items including 'Users' and 'Profiles'. The main content area is titled 'Clone Profile' and contains a message: 'Enter the name of the new profile.' Below this is a table with the heading 'You must select an existing profile to clone from.' The table has three columns: 'Existing Profile', 'User License', and 'Profile Name'. The first row shows 'Standard User', 'Salesforce', and 'NGOs Profile' (which is highlighted with a red border). At the bottom right of the table are 'Save' and 'Cancel' buttons.

Existing Profile	User License	Profile Name
Standard User	Salesforce	NGOs Profile

Step 9: User Creation

1. Add New Users:

- Go to Setup > Users > New User.
- Include First Name, Last Name, Email, Username, and assign the NGOs Profile.

The screenshot shows the Salesforce Setup interface for the 'Users' section. The left sidebar has a search bar with 'users' and a list of items including 'Users', 'Permission Set Groups', 'Permission Sets', 'Profiles', 'Public Groups', 'Queues', 'Roles', 'User Management Settings', 'Feature Settings', and 'Data.com'. The main content area is titled 'All Users' and contains a message: 'On this page you can create, view, and manage users. To get more licenses, use the Your Account app. Let's Go'. Below this is a table with the heading 'All Users' and a search bar. The table has columns: 'Action', 'Full Name', 'Alias', 'Username', 'Role', 'Active', and 'Profile'. The table contains five rows of user data.

Action	Full Name	Alias	Username	Role	Active	Profile
<input type="checkbox"/> Edit	Chatter Expert	Chatter	chatter00dms0000092x2ag.3c5e12e1kthro@chatter.salesforce.com		✓	Chatter Free User
<input type="checkbox"/> Edit	Iksha_Foundation Iksha Foundation	Iksha	harshv@gmail.com		✓	NGOs Profile
<input type="checkbox"/> Edit	Shah_Harsh J	HShah	harsh@bce.in		✓	System Administrator
<input type="checkbox"/> Edit	Shah_Neha	nshah	nshah@g.com		✓	NGOs Profile
<input type="checkbox"/> Edit	Shah_Riddh	rshah	rshah@g.com		✓	NGOs Profile

Step 10: Public Groups Creation

1. Define Public Groups:

- Go to Setup > Public Groups.
- Create groups such as Iksha, Neha, and Riddh.
- Assign relevant users to each group.

public

Public Groups

Public Groups

Salesforce Files

Content Deliveries and Public Links

Calendar Settings

Public Calendars and Resources

Public Groups

A public group is a set of users. It can contain individual users, other groups, the users in a particular role or territory, or the users in a role or territory plus all of the users below

View: All Edit Create New View

Action

Label

Group Name

Created By

Created Date

[Edit](#) | [Del](#)

Iksha

Iksha

Shah - Harsh J

01/01/2025, 11:59 pm

[Edit](#) | [Del](#)

neha

neha

Shah - Harsh J

02/01/2025, 12:00 am

[Edit](#) | [Del](#)

riddh

riddh

Shah - Harsh J

02/01/2025, 12:00 am

Step 11: Custom Report Types Creation

1. Create a Report Type:

- Navigate to Setup > Report Types.
- Link objects (Venue, Drop-Off Point, Volunteer) and name the report type **Venue with Drop-Off with Volunteer**.

Report Types

Drop-Off Points with Volunteers with Execution Details

Custom Report Type Definition

Report Type Label

Drop-Off Points with Volunteers with Execution Details

Report Type Category

Other Reports

Report Type Name

Drop_Off_Points_with_Volunteers_with_Execution_Details

Deployment Status

Deployed

Description

Drop-Off Points with Volunteers with Execution Details

Created By

Harsh J Shah, 01/01/2025, 8:51 pm

Modified By

Harsh J Shah, 01/01/2025, 8:51 pm

Object Relationships

Drop-Off Points (A)

with at least one related record from Volunteers (B)

with at least one related record from Execution Details (C)

A

B

C

Fields Available for Reports

Source

Drop-Off Points

Volunteers

Execution Details

Selected Fields

12

15

10

Step 12: Report Creation

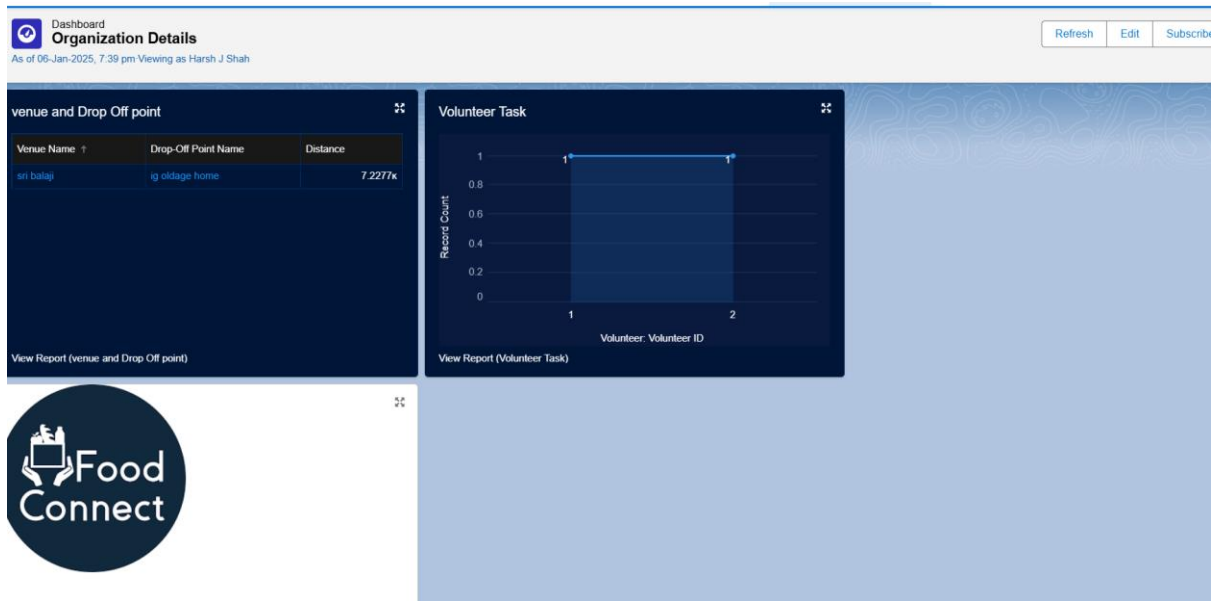
1. Build Reports for Analysis:

- Create reports like **Venue and Drop-Off Point and Volunteer Task**.
- Add relevant fields to customize the report.

Step 13: Dashboard Creation

1. Design a Dashboard:

- Add reports (Venue, Drop-Off Point, Volunteer Task) as tables or charts.
- Optionally, enhance the dashboard with images.



Step 14: Sharing Rules Creation

1. Set Sharing Rules:

- Go to Setup > Sharing Settings.
- Define rules for the Drop-Off Point object based on the Distance field.
- Share records with Iksha, Neha, and Riddh groups.

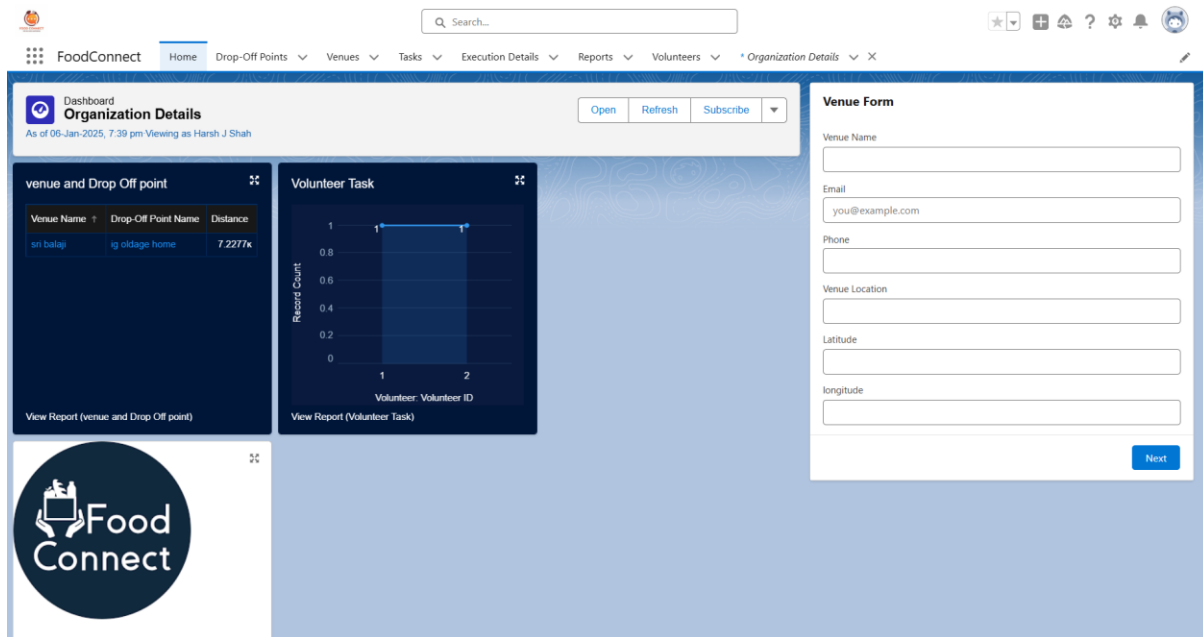
Drop-Off Point Sharing Rules				Drop-Off Point Sharing Rules Help ?	
		New	Recalculate		
Action	Criteria	Shared With		Access Level	
Edit Del	Drop-Off Point: Distance LESS THAN 15	Group: Iksha		Read Only	
Edit Del	(Drop-Off Point: Distance GREATER THAN 15) AND (Drop-Off Point: Distance LESS OR EQUAL 30)	Group: neha		Read Only	
Edit Del	(Drop-Off Point: Distance GREATER THAN 30) AND (Drop-Off Point: Distance LESS OR EQUAL 50)	Group: riddh		Read Only	

Task Sharing Rules				Task Sharing Rules Help ?	
		New	Recalculate		

Step 15: Home Page Setup

1. Create a Custom Home Page:

- Use the Lightning App Builder.
- Add components like the Venue Form flow and Dashboard.



Conclusion:

By leveraging Salesforce, this project creates a streamlined system to manage food donations effectively, connecting surplus food suppliers with individuals in need, optimizing resource use, and addressing food insecurity.