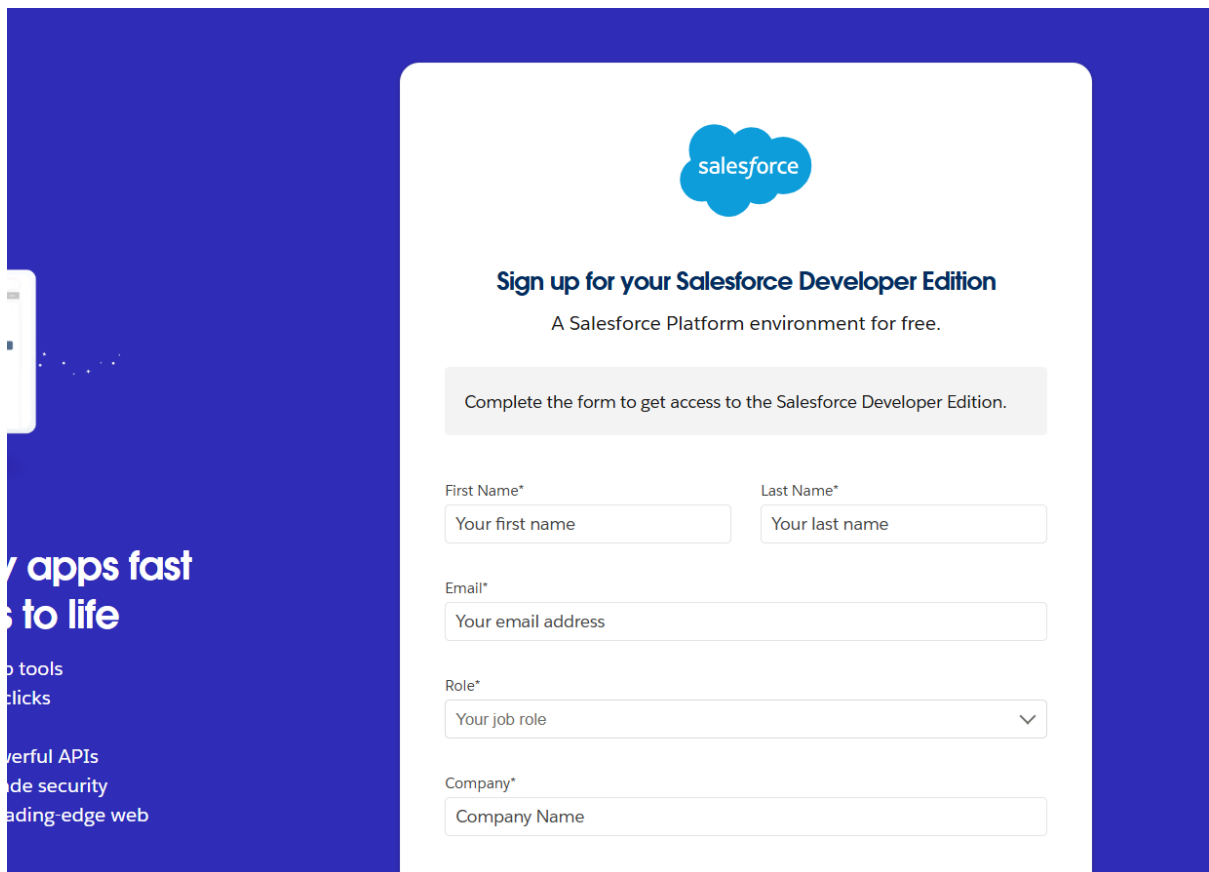# Food Connect: To supply Leftover Food to Poor

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
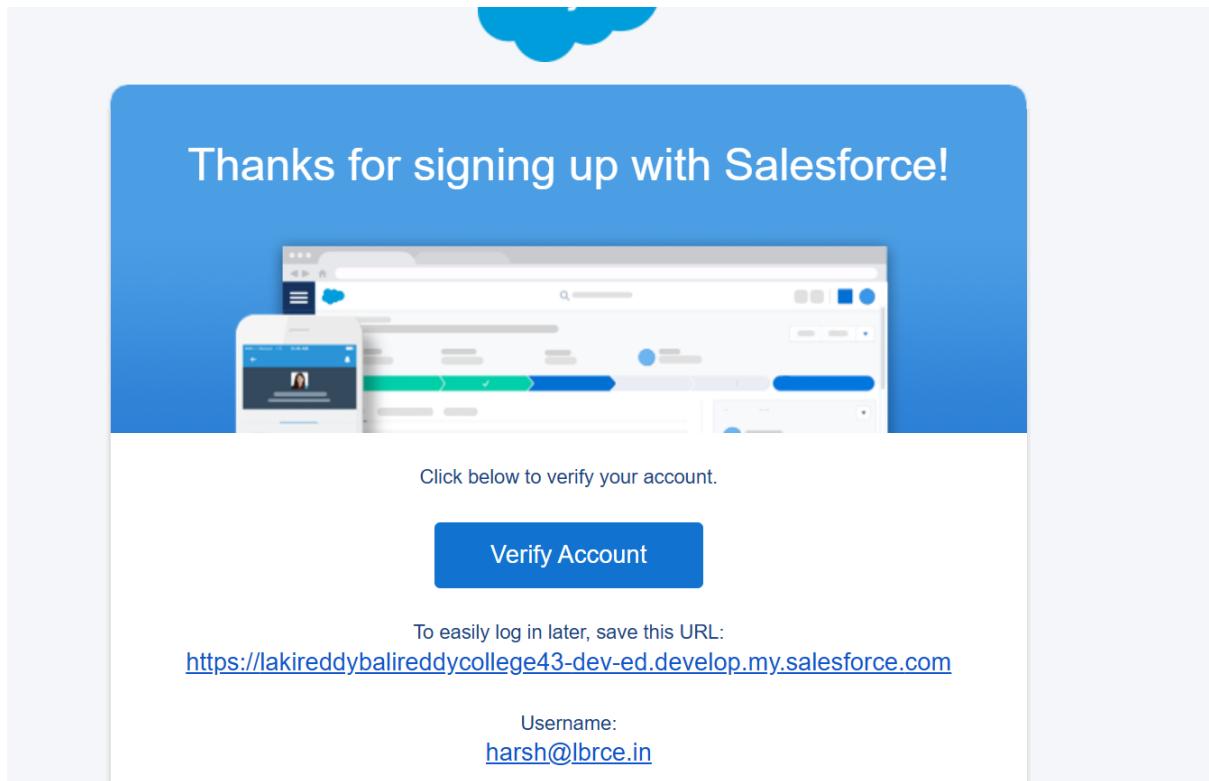
1. **Sign Up and Activate Your Account:**

   o Visit the Salesforce Developer Signup Page.

   o Fill out the required details and submit the form.

   o Check your email to verify and activate the account, then set a password.

Thanks for signing up with Salesforce!

Click below to verify your account.

Verify Account

To easily log in later, save this URL:
https://lakireddybalireddycollege43-dev-ed.develop.my.salesforce.com

Username:
harsh@lbrce.in

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:**
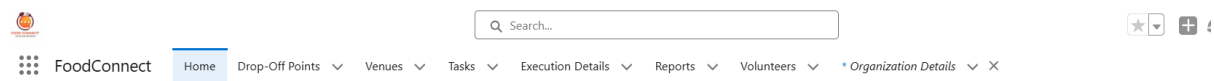   - Similarly, create the Drop-Off Point object.

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
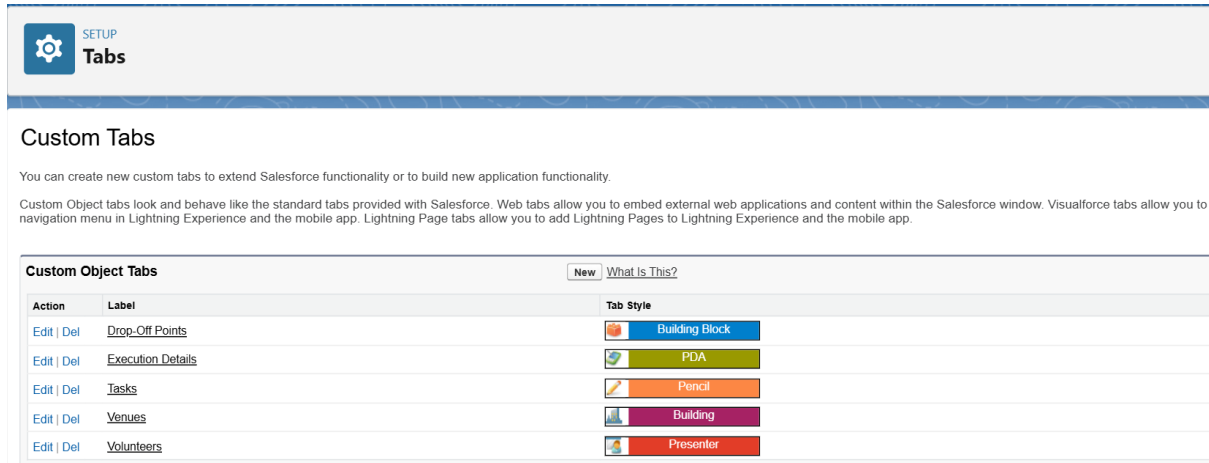
1. **Overview:**
   - Tabs let users access and manage custom object data.

2. **Create a Custom Tab for Venue:**

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

3. **Repeat for Other Objects:**
   - o Create tabs for Drop-Off Point, Task, Volunteer, and Execution Details.

Step 4: Lightning App Creation

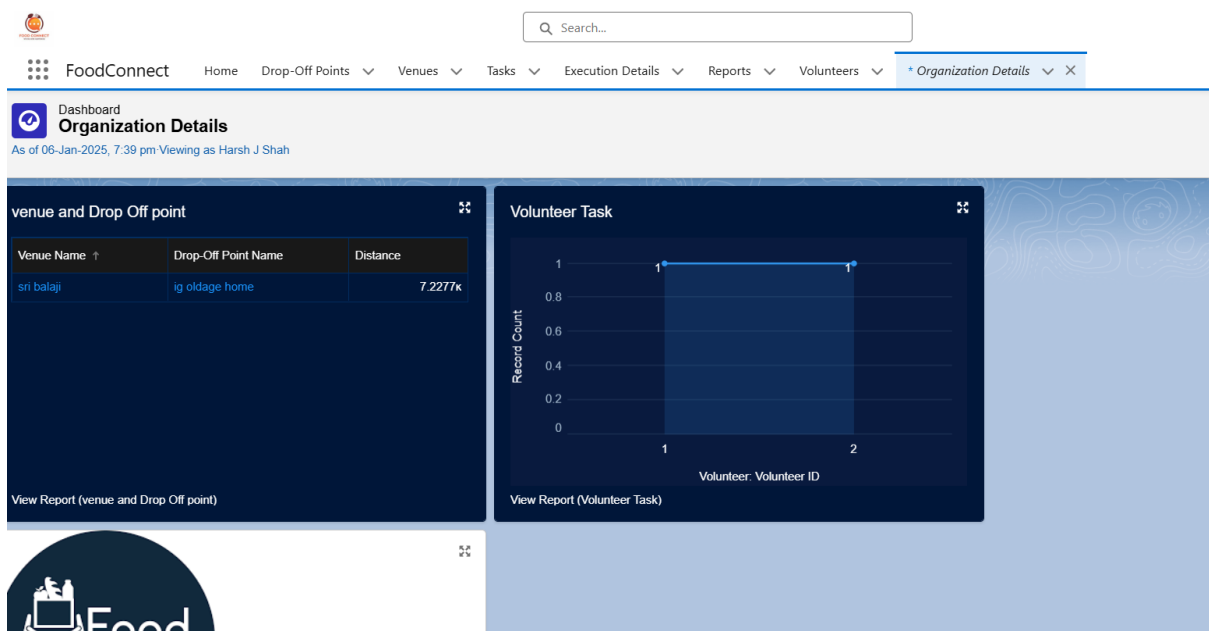1. **Create a New Lightning App:**
   - o Go to Setup > Quick Find > App Manager > New Lightning App.
   - o Add components: Home, Venue, Drop-Off Point, Task, Volunteer, Execution Details, and Reports.

2. **Assign User Profiles:**
   - o Assign the System Administrator profile to the app.

3. **Finish Setup:**
   - o Click Save & Finish.
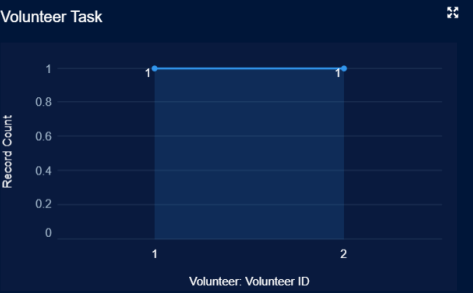
Step 5: Defining Fields and Relationships

1. **Establish Relationships:**

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

2. **Create Fields for Data Capture:**

   o Add fields like Email, Phone, Geolocation, Text Area, Picklist, Auto Number, and Formula.

   o Define properties (Length, Decimal Places, Description) for each field.

SETUP > OBJECT MANAGER
Venue

Details	**Fields & Relationships** 8 Items, Sorted by Field Label		Quick Find
Fields & Relationships			
Page Layouts	**FIELD LABEL** ▲	**FIELD NAME**	**DATA TYPE**
Lightning Record Pages	Contact Email	Contact_Email__c	Email
Buttons, Links, and Actions	Contact Phone	Contact_Phone__c	Phone
Compact Layouts	Created By	CreatedById	Lookup(User)
Field Sets	Last Modified By	LastModifiedById	Lookup(User)
Object Limits	Location	Location__c	Geolocation
Record Types	Owner	OwnerId	Lookup(User,Group)
Related Lookup Filters	Venue Location	Venue_Location__c	Long Text Area(32768)
Search Layouts	Venue Name	Name	Text(80)
List View Button Layout			

SETUP > OBJECT MANAGER
Volunteer

Details	**Fields & Relationships** 12 Items, Sorted by Field Label		Quick Find
Fields & Relationships			
Page Layouts	**FIELD LABEL** ▲	**FIELD NAME**	**DATA TYPE**
Lightning Record Pages	Address	Address__c	Long Text Area(32768)
Buttons, Links, and Actions	Age	Age__c	Number(18, 0)
Compact Layouts	Available On	Available_On__c	Date
Field Sets	Contact Number	Contact_Number__c	Number(10, 0)
Object Limits	Created By	CreatedById	Lookup(User)
Record Types	Date of Birth	Date_of_Birth__c	Date
Related Lookup Filters	Drop-Off Point	Drop_Off_Point__c	Master-Detail(Drop-Off Point)
Search Layouts	Email	Email__c	Email
List View Button Layout	Gender	Gender__c	Picklist
Restriction Rules	Last Modified By	LastModifiedById	Lookup(User)
Scoping Rules	Volunteer ID	Volunteer_ID__c	Number(18, 0)
Object Access	Volunteer Name	Name	Text(80)
Triggers			
Flow Triggers			

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	C
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)

Details	**Fields & Relationships** 14 Items, Sorted by Field Label	Quick Find
Fields & Relationships	FIELD LABEL ▲	FIELD NAME	DATA TYPE
Page Layouts	Created By	CreatedById	Lookup(User)
Lightning Record Pages	Date	Date__c	Date
Buttons, Links, and Actions	Drop-Off Point	Drop_Off_Point__c	Lookup(Drop-Off Point)
Compact Layouts	Feedback	Feedback__c	Long Text Area(32768)
Field Sets	Food Category	Food_Category__c	Picklist (Multi-Select)
Object Limits	Last Modified By	LastModifiedById	Lookup(User)
Record Types	Name of the Person	Name_of_the_Person__c	Text(20)
Related Lookup Filters	Number of People Served	Number_of_People_Served__c	Number(18, 0)
Search Layouts	Owner	OwnerId	Lookup(User,Group)
List View Button Layout	Phone	Phone__c	Phone
Restriction Rules	Rating	Rating__c	Picklist
Scoping Rules	Sponsored By	Sponsored_By__c	Lookup(Venue)
Object Access			
Triggers			
Flow Triggers			

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**.

Flow Builder   Venue Form - V1

Select Elements   Auto-Layout   Last saved on 2/1/2025, 01:05 am Active Run Debug Save As New Version Save Deactivate

```
Screen Flow
Start

Venue Details
Screen

Create Venue Record
Create Records

End
```
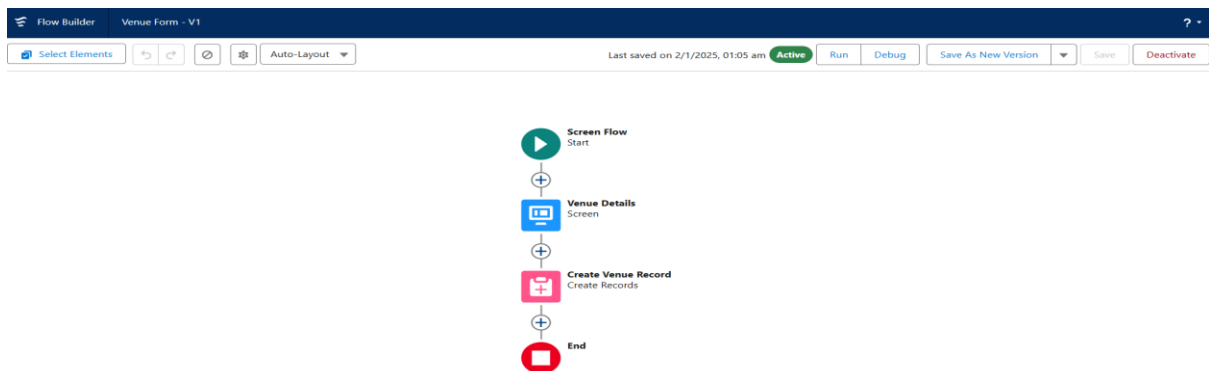
Step 7: Trigger Creation

1. **Automating Distance Calculation:**

File   Edit   Debug   Test   Workspace   Help   <   >

DropOffTrigger.apxt

Code Coverage: None   API Version: 62

```apex
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**.

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.

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.

Q public

Users

Public Groups

Feature Settings

∨ Salesforce Files

    Content Deliveries and Public Links

Company Settings

∨ Calendar Settings

    Public Calendars and Resources

SETUP
Public Groups

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

A | B | C | D | E | F | G | H | I | J | K | L | M | N

New

Action	Label ↑	Group Name	Created By	Created Date
Edit	Del	lksha	lksha	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**.

SETUP
Report Types

Custom Report Type
Drop-Off Points with Volunteers with Execution Details

Help for this Page ?

Below is the information for this custom report type. You can click the buttons on this page to preview or update information for the custom report type.

Custom Report Type Definition   Edit   Delete   Clone

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   Edit   Object Relationships Help ?

Drop-Off Points (A)
  └ with at least one related record from **Volunteers (B)**
    └ with at least one related record from **Execution Details (C)**

Fields Available for Reports   Edit Layout   Preview Layout   Fields Available for Reports Help ?

Source	Selected Fields
Drop-Off Points	12
Volunteers	15
Execution Details	10

Step 12: Report Creation

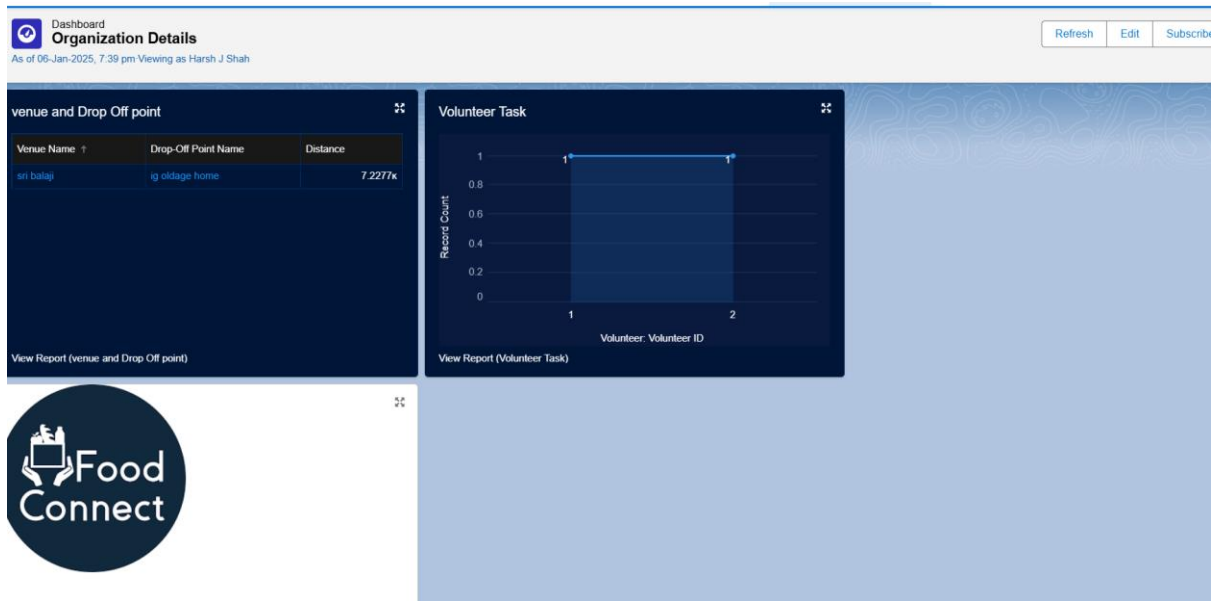1. **Build Reports for Analysis:**
   - Create reports like **Venue and Drop-Off Point and Volunteer Task**.
   - Add relevant fields to customize the report.

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.
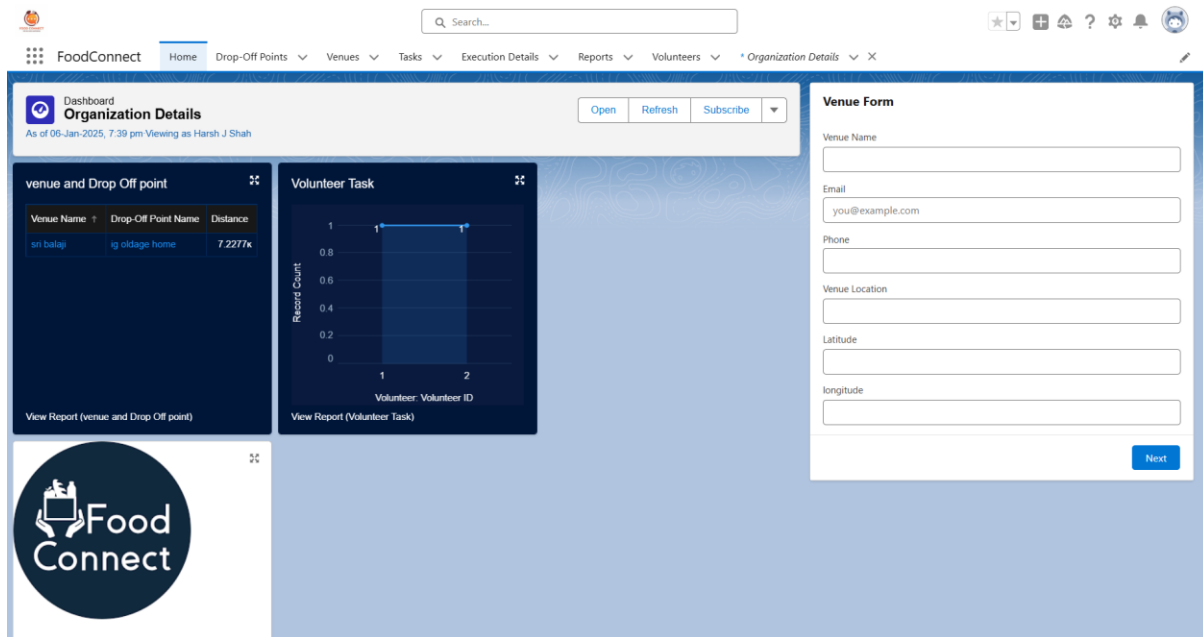   - Share records with Iksha, Neha, and Riddh groups.

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.