

# FOODCONNECT: TO SUPPLY LEFTOVER FOOD TO POOR



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#### **ABSTRACT:**

The Salesforce-based project aims to create a sustainable solution for redistributing surplus food to those in need, addressing both food waste and hunger. This initiative connects food donors—such as restaurants, hotels, and event organizers—with NGOs, shelters, and community kitchens that serve the underprivileged. Using Salesforce's robust CRM and automation tools, the platform allows donors to easily register leftover food, which is then efficiently matched with nearby recipients based on real-time demand and logistical factors.

Key features of the project include automated notifications to both donors and recipients, intelligent scheduling to ensure food is picked up and delivered promptly, and tracking to monitor the food's journey from donor to beneficiary. The system also integrates with mapping and route optimization tools to minimize transportation time and reduce carbon footprints.

To support continuous improvement, the platform provides detailed analytics on food donations, recipient needs, and operational efficiency. These insights help refine the distribution network, identify areas with the highest demand, and foster stronger relationships with food donors. Additionally, the platform includes community engagement features, such as recognition programs for donors and impact reports that highlight the benefits of their contributions.

By integrating these capabilities, the Salesforce project not only addresses immediate food insecurity but also builds a replicable model for communities worldwide to tackle hunger and food waste in a more organized and impactful manner.

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## **INTRODUCTION:**

Food waste is a significant global issue, with millions of tons of edible food discarded every year, while millions of people face hunger and food insecurity. This disparity highlights the need for innovative solutions that can bridge the gap between food surplus and hunger. The Salesforce project, designed to supply leftover food to the poor, addresses this challenge by creating an organized, efficient, and scalable platform for food redistribution.

The project leverages Salesforce's comprehensive CRM and automation capabilities to connect food donors—such as restaurants, hotels, and event venues—with organizations that serve the underprivileged, including NGOs, shelters, and community kitchens. The platform simplifies the process of donating surplus food, ensuring that it reaches those in need promptly and safely. By automating notifications, optimizing logistics, and providing real-time tracking, the system minimizes food spoilage and ensures that surplus food is distributed where it can have the most impact.

This introduction sets the stage for a solution that not only reduces food waste but also contributes to social welfare by feeding the hungry. The Salesforce-based platform aims to create a sustainable, replicable model that can be adapted by communities worldwide, ultimately fostering a more equitable distribution of resources and addressing the critical issue of food insecurity.

#### **OBJECT:**

Salesforce objects are key components used to store and manage data within the Salesforce platform. There are two main types:

- 1. **Standard Objects:** Pre-built objects provided by Salesforce, such as:
  - a. **Account:** Stores information about organizations like food donors or recipient NGOs.
  - b. **Contact:** Holds details about individuals associated with these organizations.
  - c. **Opportunity:** Tracks potential food donations through various stages.
  - d. **Case:** Manages issues that arise during the food distribution process.
- 2. **Custom Objects:** User-defined objects tailored to specific needs, such as:
- **Venue:** Stores information about locations where surplus food is available, such as restaurants, hotels, or event sites.
- **Dropoff Point:** Captures details of locations where food will be delivered, such as shelters, NGOs, or community kitchens.
- **Task:** Manages specific actions or steps needed in the food redistribution process, like scheduling pickups, coordinating with volunteers, or confirming deliveries.
- **Volunteer:** Tracks details about individuals who are helping with the food distribution, including their availability, assigned tasks, and contact information.
- **Execution Details:** Holds information on the actual implementation of food distribution activities, including logistics, timing, and any issues encountered during the process.

### 1. Create Customer DetailsObject

To create an object:

From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.

Enter the label name >> Customer Details

Plural label name >> Customer Details

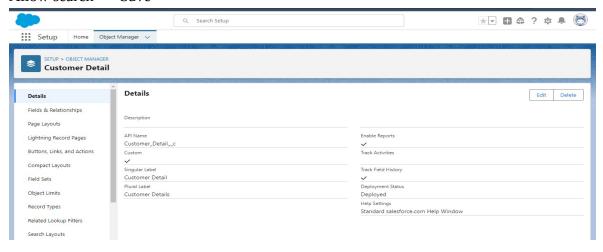
Enter Record Name Label and Format

Record Name >> Customer Name

Data Type >> Text

Click on Allow reports and Track Field History,

Allow search >> Save



# 2. Create Venue Object

To create an object:

From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.

Enter the label name >> Venue

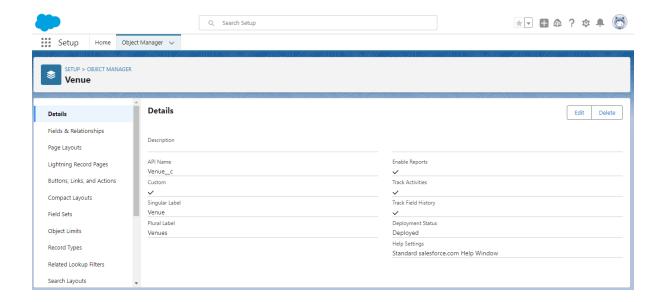
Plural label name >> Venues

Enter Record Name Label and Format

Record Name >> Venue Name

Data Type >> Text

Click on Allow reports and Track Field History, Allow Activities.



# 3. Create Drop-Off Point Object

To create an object:

From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.

Enter the label name >> Drop-Off Point

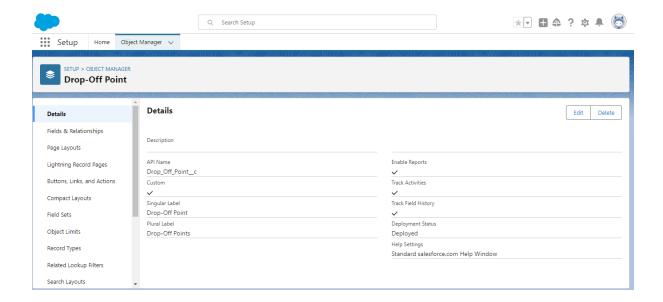
Plural label name>> Drop-Off Points

Enter Record Name Label and Format

Record Name >> Drop-Off point Name

Data Type >> Text

Click on Allow reports and Track Field History, Allow Activities



# 4. Create Task Object

To create an object:

From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.

Enter the label name>> Task

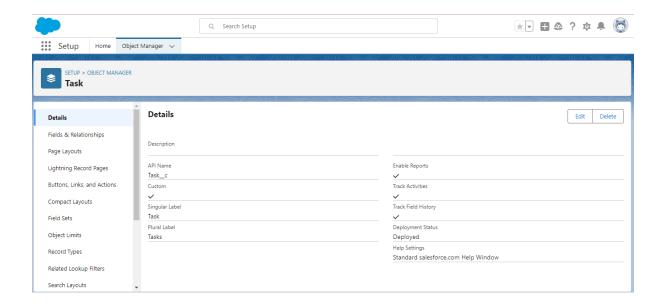
Plural label name>> Tasks

Enter Record Name Label and Format

Record Name >> Task Name

Data Type >> Text

Click on Allow reports and Track Field History, Allow Activities



# 5. Create Volunteer Object

To create an object:

From the setup page >> Click on Object Manager>> Click on Create >> Click on Custom Object.

Enter the label name>> Volunteer

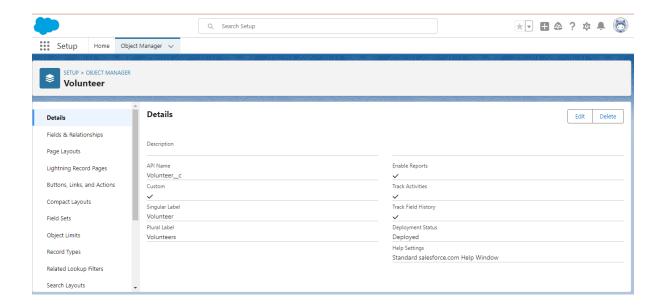
Plural label name>> Volunteers

Enter Record Name Label and Format

Record Name >> Volunteer Name

Data Type >> Text

Click on Allow reports and Track Field History, Allow Activities



# 6. Create Execution Details Object

To create an object:

From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.

Enter the label name >> Execution Detail

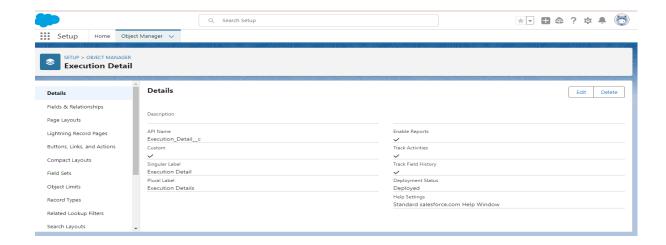
Plural label name >> Execution Details

Enter Record Name Label and Format

Record Name >> Execution Detail Name

Data Type >> Text

Click on Allow reports and Track Field History, Allow Activities



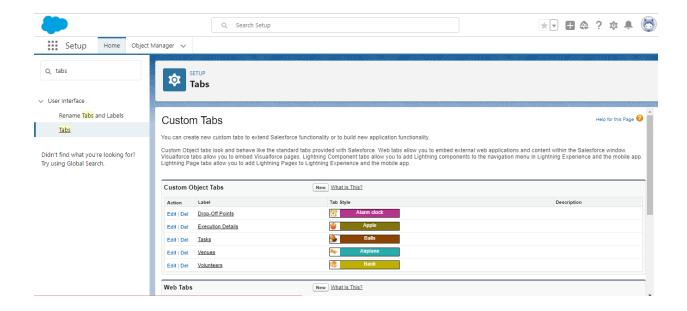
## **TABS**

A tab is like a user interface that is used to build records for objects and to view the records in the objects.

#### **Creating a Custom Tab**

To create a Tab:(Venue)

- 1. Go to setup page >> type Tabs in Quick Find bar >> click on tabs >> New (under custom object tab)
- 2. Select Object(Venue) >> Select the tab style >> Next (Add to profiles page) keep it as default >> Next (Add to Custom App) uncheck the include tab.
- 3. Make sure that the Append tab to users' existing personal customizations is checked.
- 4. Click save



#### **Creating Remaining Tabs**

- 1. Now create the Tabs for the remaining Objects, they are "Drop-Off Point, Task, Volunteer, Execution Details".
- 2. Follow the same steps as mentioned above

# THE LIGHTNING APP

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An app is a collection of items that work together to serve a particular function. In Lightning Experience, Lightning apps give your users access to sets of objects, tabs, and other items all in one convenient bundle in the navigation bar.

# **Create a Lightning App**

#### To create a lightning app page:

- 1. Go to setup page >> search "app manager" in quick find >> select "app manager" >> click on New lightning App.
- 1. Fill the app name in app details and branding as follow

App Name : FoodConnect

Developer Name: This will auto populated

Image: optional (if you want to give any image you can otherwise not mandatory)

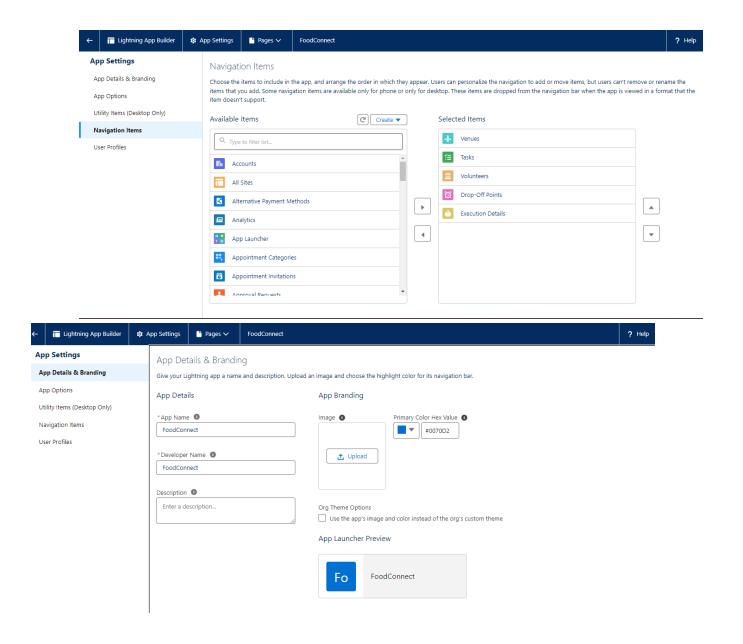
Primary color hex value: keep this default.

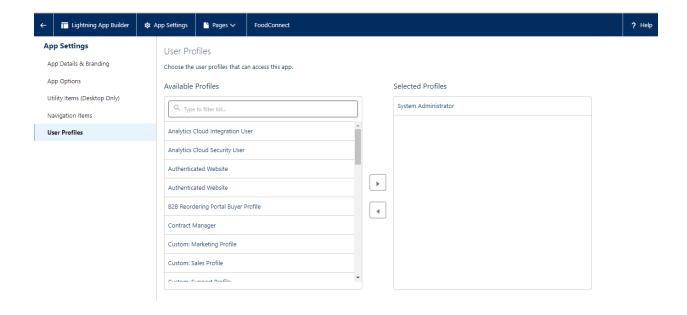
- 2. Then click Next >> (App option page)Set Navigation Style as Standard Navigation >> Next.
- 3. (Utility Items) keep it as default >> Next.
- 4. To Add Navigation Items:

Search for the item in the (Home, Venue, Drop-Off Point, Task, Volunteer, Execution Details, Reports) from the search bar and move it using the arrow button >> Next >> Next.

5. To Add User Profiles:

Search profiles (System administrator) in the search bar >> click on the arrow button >> save & finish.

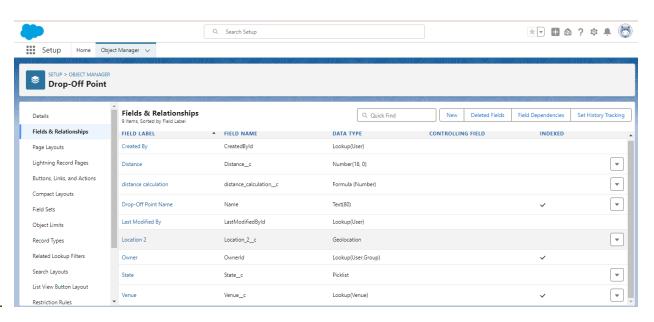




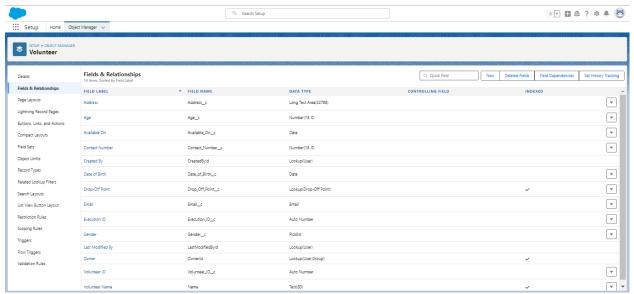
# **FIELDS**

## **Creation of Lookup Relationship Field on Volunteer Object:**

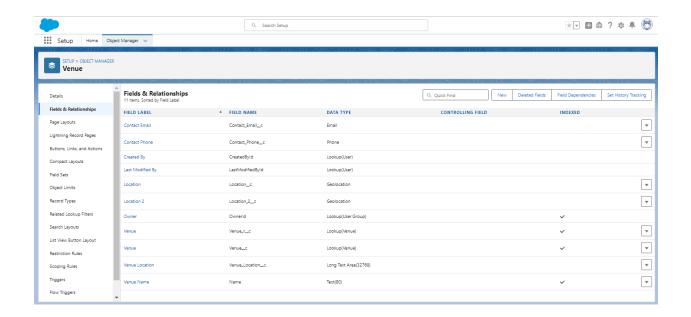
- 1. Go to setup >> click on Object Manager >> type object name(Volunteer) in the search bar >> click on the object.
- 2. Now click on "Fields & Relationships" >> New
- 3. Select Master Detail relationship
- 4. Select the related object "Drop-Off point" and click next.
- 5. Field Name: Drop\_Off\_point
- 6. Field label: Auto generated
- 7. Next>>Next>>Save.

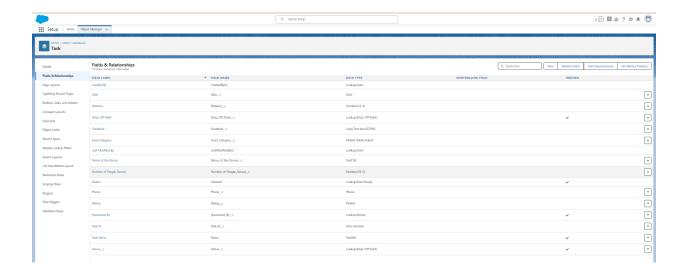


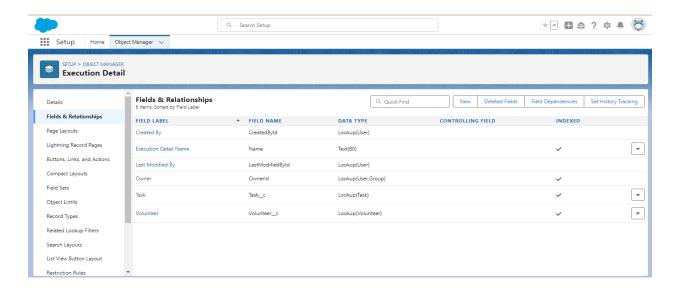
8.



Next >> Next >> Save.







## **FLOWS**

#### **Create Flow to create a record in Venue object**

- 1. Go to setup >> type Flow in quick find box >> Click on the Flow and Select the New Flow.
- 2. Select the Screen flow. Click on create.
- 3. Click on the '+' icon in between start and end, and click on screen element.
- 4. Under the Screen Properties:

Label: Venue Details

API Name: Venue Details

5. Now lets add components in this flow. Click on Text Component and name it as:

Label: Venue Name

API Name: Venue Name

6. Click on Email Component and name it as:

Label: Email

API Name: Contact\_Email

7. Click on Phone Component and name it as:

Label: Phone

API Name : Contact\_Phone

8. Click on Text Component and name it as:

Label: Venue Location

API Name: Venue Location

9. Click on Number Component and name it as:

Label: Latitude

API Name: Latitude

10. Click on Number Component and name it as:

Label: longitude

API Name: longitude

- 11. Next click on Done. This would like below
- 12. Click on the '+' icon in between Venue details and end, and click on create record element.
- 13. Now label it as

Label: Create Venue Record

API Name: Create\_Venue\_Record

How Many Records to Create: One

How to Set the Record Fields: Use separate resources, and literal values

Object : Venue

Set Field Values for the Venue: Click on 'Add Field' 5 times

Field : Value = Contact\_Email\_\_c : {!Contact\_Email.value}

Field : Value = Contact\_Phone\_\_c : {!Contact\_Phone.value}

Field : Value = Name : {!Venue\_Name}

Field : Value = Venue\_Location\_\_c : {!location}

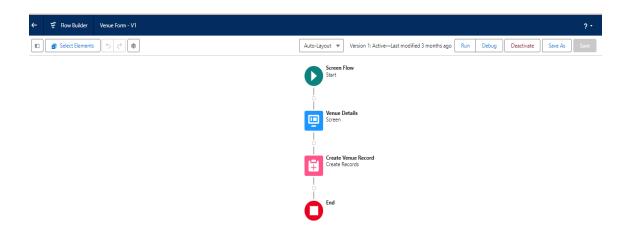
Field : Value = Location\_\_Latitude\_\_s : {!latitude}

Field : Value = Location\_\_Longitude\_\_s : {!longitude}

- 14. This would look like:
- 15. Click on Save as:

Flow Label: Venue Form

Flow API Name: Venue Form



# **TRIGGERS**

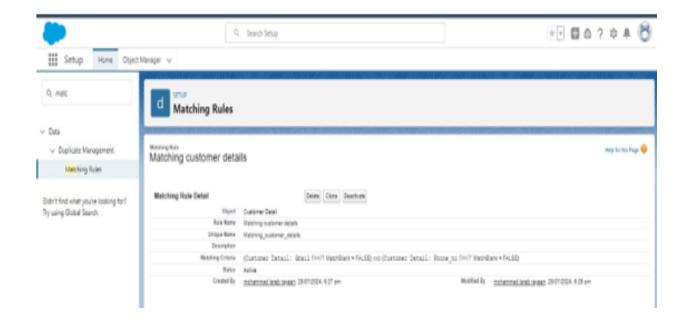
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#### **Create a Trigger**

- 1. Log into the trailhead account, navigate to the gear icon in the top right corner.
- 2. Click on developer console and you will be navigated to a new console window.
- 3. Click on the File menu in the toolbar, and click on new >> Trigger.
- 4. Enter the trigger name and the object to be triggered.
- Enter Name : DropOffTrigger sObject: Drop-Off Point
- 6. Click on Submit.

# To create a matching rule to an Customer details Object

- 1. Go to quick find box in setup and search for matching Rule.
- 2. Click on matching rule >> click on New Rule.
- 3. Select the object as Customer details and click Next.
- 4. Give the Rule name: Matching customer details
- 5. Unique name : is auto populated
- 6. Define the matching criteria as
- 7. Field Matching Method
  - a. Gmail Exact
  - b. Phone Number Exact
- 8. Click save.
- 9. After saving click on activate

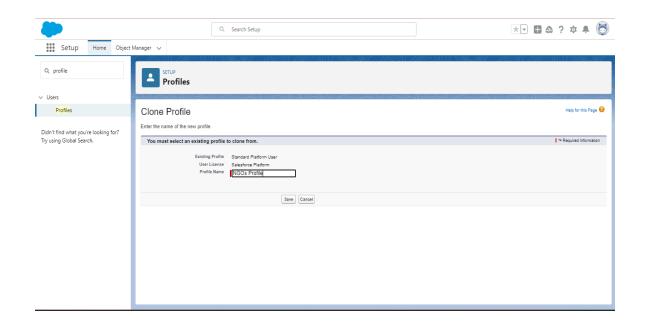


# **PROFILES**

- 1. Go to setup page >> type Profiles in Quick Find bar >> click on Profiles >> click on 'S'
- 2. Click on Clone beside Standard Platform User.
- 3. Under Clone Profile:

Profile Name: NGOs Profile

1. Then click on Save



# **CREATION OF USERS**

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In our Project we consider them as NGO's

#### **Creation of User1**

1. Go to setup page >> type users in Quick Find bar >> click on users>> New user.

2. In General Information give details as: (Note: create users as per your wish NGO's)

First Name : Iksha Foundation Last Name : Iksha\_Foundation

Alias: iiksh

Email: Give Your Email

Username : <u>ikshafoundation@sb.com</u> (give the username different)

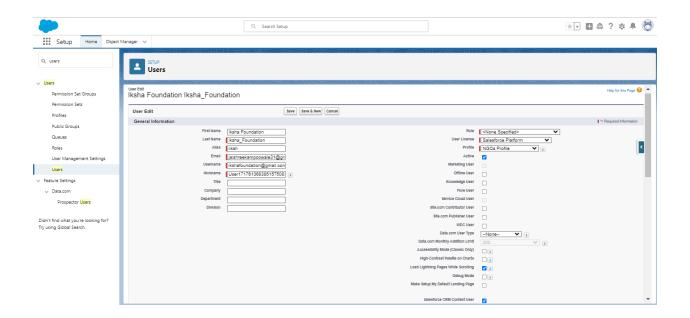
Nickname : Auto Populated

User License: Salesforce Platform

Profile: NGOs Profile

Active : Check

1. Click on Save



## Creation of User2, User3

- 1. Create another Two Users by following steps in Activity 1 with similar User License and Profile.
- 2. Give Different First Name, Last Name based on Different NGO's.



# **PUBLIC GROUPS**

Creation of Public Group 1

1. Go to setup page >> type Public Groups in Quick Find bar >> click on Public Groups >> click on New.

2. Under Group Information:

Label: Iksha

Group Name: Iksha

Grant Access Using Hierarchies: Check

1. In Search, Select Users.

2. In Selected Members Add Iksha Foundation and System Administrator

★▼ 🖩 🕸 ? 🌣 📮 👩 Q. Search Setup Public Groups Public Groups Public Groups Feature Settings Salesforce Files View: All ▼ Edit | Create New View Content Deliveries and Publi Company Settings Action Label + Edit | Del | Iksha | Edit | Del | NSS | Edit | Del | Street Cause 06/06/2024, 12:32 am 06/06/2024, 12:33 am 06/06/2024, 12:34 am Iksha NSS kampoowale, jaishree kampoowale, jaishree Calendar Settings Public Calendars and

#### Creation of Public Group 2

- 1. By Following Steps in Activity 1, Create other two Public Groups for other two users.
- 2. After Saving this would look like this.

# REPORT TYPES

Creation of Report Types

- Go to setup page >> type Report Types in Quick Find bar >> click on Report Types >> click on Continue >> Click on New Custom Report Type.
- 2. In Define the Custom Report Type:

Primary Object : Select Venues

Report Type Label: Venue with DropOff with Volunteer

 $Report\ Type\ Name: Venue\_with\_DropOff\_with\_Volunteer$ 

Description: Venue with DropOff with Volunteer

Store in Category : Select Other Reports

Deployment Status: Deployed

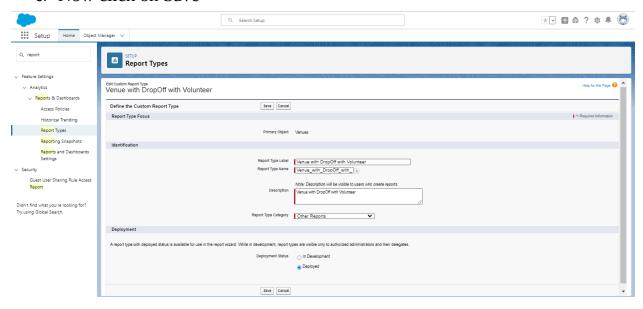
1. Click on Next

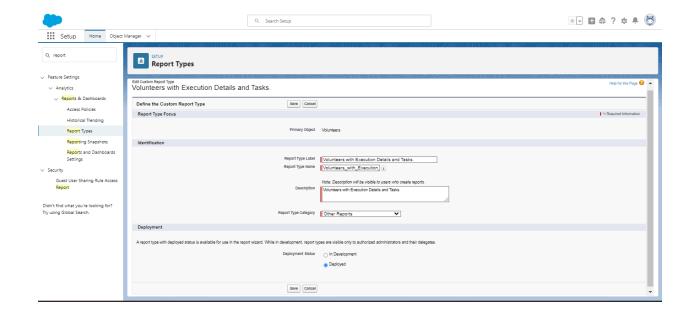
2. Near Click to relate another Object Select Drop-Off Points.

3. And also select "A" records may or may not have related "B" records.

4. Now again Near Click to relate another Object Select Volunteers.

5. Now click on Save





# **REPORTS**

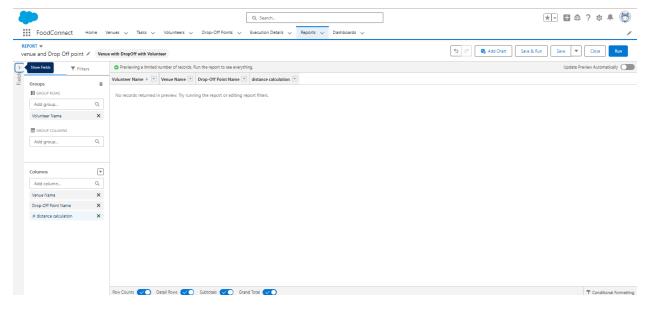
# Creation of Report on Venue with DropOff with Volunteer

- 1. Go to the app(FoodConnect) >> click on the reports tab
- 2. Click on New Folder.

Folder Label: Custom Reports

Folder Unique Name: CustomReports

- 1. Open Custom Reports and click on New Report
- 2. Select Report Type: Venue with DropOff with Volunteer
- 3. Then click on Start Report.
- 4. In GROUP ROWS: Add Volunteer Name
- 5. In Columns: Add Venue Name, Drop-Off point Name, Distance.
- 1. Now click on Save & Run.
- 2. Give Label as:
- 3. Report Name : venue and Drop Off point
- 4. Report Unique Name: Auto Populated
- 5. Click on Select Folder and select Custom Report, then click on Save.



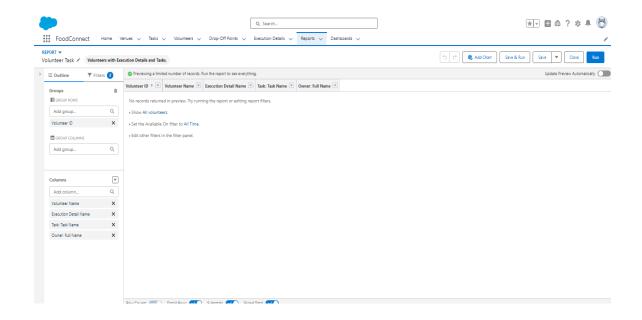
# **Creation of Report on Volunteers with Execution Details and Tasks**

- 1. Go to the app(FoodConnect) >> click on the reports tab
- 2. Click on Custom Reports Folder and click on New Report
- 3. Select Report Type: Volunteers with Execution Details and Tasks.
- 4. Then click on Start Report.
- 5. In GROUP ROWS: Volunteer ID
- 6. In Columns: Add Volunteer: Volunteer Name, Task: Task Name, Execution Detail: Execution Detail Name, Volunteer: Owner Name, Task: Date, Task: Rating.
- 1. Now click on Save & Run.
- 2. Give Label as:

Report Name: Volunteer Task

Report Unique Name: Auto Populated

1. Click on Select Folder and select Custom Report, then click on Save.



# **DASHBOARDS**

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Adding venue and Drop Off point Report to the Dashboard

- 1. Go to the app(FoodConnect) >> click on the Dashboards tab.
- 2. Click on New Folder.

Folder Label: Custom Dashboards

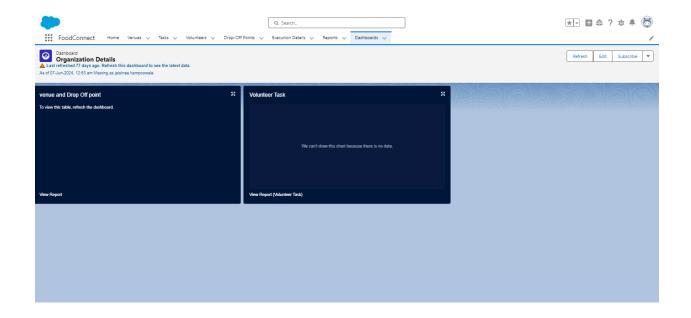
Folder Unique Name: Auto Populated

- 1. Open Custom Dashboards and click on New Dashboards
- 2. Name: Organization Details
- 3. Click on Widget and select Chart or Table
- 4. In Select Report : Select venue and Drop Off point Report.
- 5. Then click on select
- 6. In Add Component:

Display As: Select Lightning Table

Component Theme : Select Dark (Optional)

1. Now click on save.



# **SHARING RULES**

# **Creation of sharing rules**

- 1. Go to setup >> type Sharing Settings in quick find box >> Click on the Sharing Settings.
- 2. Scroll down and find Drop-Off point Sharing Rules.
- 3. Click on new near Drop-Off point Sharing Rules and Name it as:

Label: Rule 1

Rule Name: Rule\_1

- 4. Select your rule type : Select Based on criteria.
- 5. Select which records to be shared:

Field: Operator: Value = Distance: less than: 15

6. Select the users to share with: Near Share With

Public Groups: Iksha

7. Click on Save.

8. Click on new near Drop-Off point Sharing Rules and Name it as:

Label: Rule 2

Rule Name: Rule\_2

- 9. Select your rule type: Select Based on criteria.
- 10. Select which records to be shared:

Field : Operator : Value = Distance : greater than : 15

Field : Operator : Value = Distance : less or equal : 30

11. Select the users to share with: Near Share With

Public Groups: NSS

- 12. Click on Save.
- 13. Click on new near Drop-Off point Sharing Rules and Name it as:

Label: Rule 3

Rule Name: Rule\_3

- 14. Select your rule type: Select Based on criteria.
- 15. Select which records to be shared:

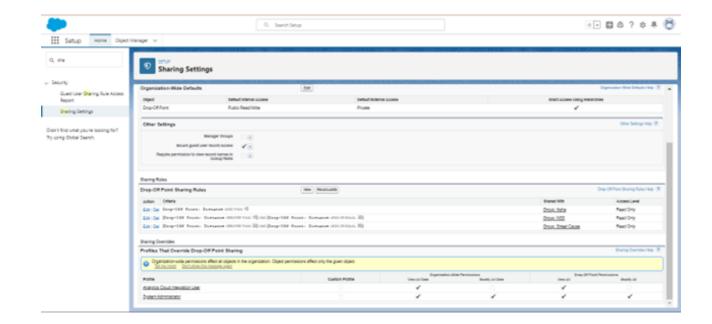
Field : Operator : Value = Distance : greater than : 30

Field : Operator : Value = Distance : less or equal : 50

16. Select the users to share with: Near Share With

Public Groups: Street Cause

17. Click on Save.



## **HOME PAGE**

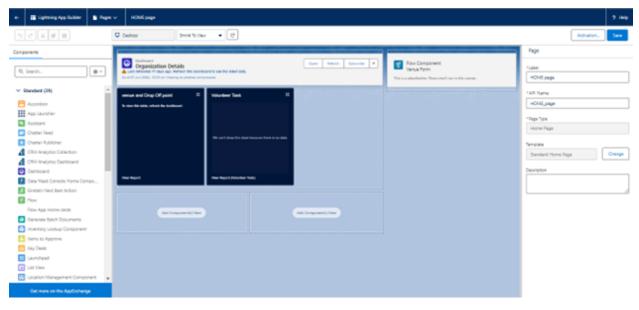
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# Creation of Home Page

- 1. Go to setup >> type Lightning App Builder in quick find box >> Click on the Lightning App Builder and Select the New.
- 2. Select Home Page and give Label as HOME Page.
- 3. Select Standard Home Page.
- 4. Near Components search for Flow and Drag and Drop in Right Side Section..
- 5. On the right hand side:

#### Flow: Venue Flow

- 1. Near Components search for Dashboard, then Drag and Drop it in first Section.
- 2. Click on Save and Activation, then click on App Default, then Add Assignments.
- 3. Add FoodConnect App and then Save.
- 4. FoodConnect Home Page would Look Like this.



# CONCLUSION

The Salesforce-based food redistribution project effectively addresses the dual challenges of food waste and hunger by creating a streamlined, organized system for managing surplus food. Through the use of custom objects such as Venue, Dropoff Point, Task, Volunteer, and Execution Details, the platform ensures that all aspects of the food donation and distribution process are meticulously tracked and managed.

By automating key tasks, optimizing logistics, and providing real-time data insights, the project not only improves operational efficiency but also maximizes the impact of food donations. Volunteers are better coordinated, food is delivered promptly and safely, and the system adapts to the needs of both donors and recipients.

Ultimately, this project demonstrates the power of Salesforce in creating scalable, sustainable solutions that benefit both communities and the environment. It sets a precedent for how technology can be leveraged to tackle pressing social issues, offering a replicable model that can be adapted by other communities worldwide to address food insecurity.