

# **To Supply Leftover Food To Poor ( FOOD CONNECT )**

By

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# Project Abstract

This project aims to address both food waste and food insecurity, often found in the same communities, by creating a solution that tackles both issues simultaneously. We plan to connect surplus food suppliers, such as local restaurants, grocery stores, and food producers, with individuals and families in need. By partnering with these suppliers, we'll collect food that is still good to eat but would otherwise be discarded and redistribute it to those who lack adequate access to nutritious meals.

Our initiative will not only reduce food waste but also provide essential nourishment to people facing food insecurity. We'll establish a system for efficiently collecting, storing, and distributing food with the help of volunteers and community organizations. Additionally, this project will raise awareness about food waste and encourage community engagement in the fight against hunger.

The ultimate goal is to create a model that can be replicated in other communities, fostering a culture of sharing and support. By bridging the gap between food waste and those in need, our project seeks to reduce hunger and prevent deaths caused by food scarcity.

# Index

TOPIC	PAGE NO.
1. Introduction	04-05
2. Tasks to set up the App	05-39
3. Conclusion	40

# Introduction

The "Supply Leftover Food to the Poor" project, known as "Food Connect," tackles two significant global issues: food waste and hunger. Our initiative is focused on efficiently redistributing leftover food to those in need, using advanced tools to manage venues, tasks, volunteers, and distribution points.

"Food Connect" aims to ensure that surplus food from restaurants, events, and households is collected and redistributed to underprivileged communities. Leveraging Salesforce's data management and process automation capabilities, we will track food donations, coordinate volunteer efforts, and optimize delivery routes to ensure that no food is wasted and no one goes hungry.

## Key Features of Food Connect:

- **Real-Time Tracking:** Enables the monitoring of food donations and deliveries in real-time, ensuring that surplus food is quickly redistributed.
- **Volunteer Management:** Streamlines the management of volunteer sign-ups, scheduling, and task assignments to maximize impact.
- **Automated Notifications:** Sends automated alerts to donors, volunteers, and recipients about when food will be collected and delivered.
- **Data Analytics:** Utilizes analytics to identify trends, optimize delivery routes, and improve the efficiency of the food redistribution process.
- **Community Engagement:** Encourages local businesses, organizations, and individuals to join the fight against hunger.

### **Our Mission:**

To reduce food waste and alleviate hunger through a sustainable, efficient redistribution system. We connect surplus food with those in need, making a significant difference in food security and community well-being.

## **Tasks to set up FoodConnect**

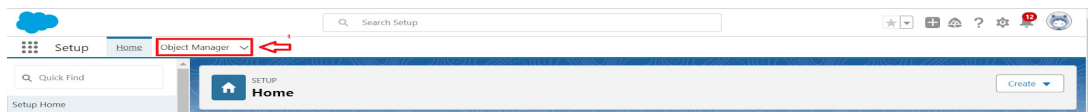
### **Task 1 : Salesforce developer account creation**

Creating a developer org in salesforce.

1. Go to <https://developer.salesforce.com/signup>
2. On the sign up form, enter the required details
3. Go to the inbox of the email that you used while signing up. Click on the verify account to activate your account. The email may take 5-10 mins.

### **Task 2 : Object**

Navigate to the Setup page:



To create an object:

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



2. On the Custom object defining page:
3. Enter the label name, plural label name, click on Allow reports, Allow search.

**Custom Object Definition Edit** [Save] [Save & New] [Cancel]

**Custom Object Information**

The singular and plural labels are used in tabs, page layouts, and records.

Label:  Example: Account

Plural Label:  Example: Accounts

Starts with vowel sound ☐

The Object Name is used when referencing the object via the API.

Object Name:  Example: Account

Description:

Context-Sensitive Help Setting: ☒ Open the standard Salesforce.com Help & Training window  
☐ Open a window using a Visualforce page

Content Name:

**Enter Record Name Label and Format**

The Record Name appears in page layouts, key lists, related lists, and search results. For example, the Record Name for Account is "Account Name" and for Case it is "Case Number". Note that the Record Name field is always called "Name" when referenced via the API.

Record Name:  Account Name

Data Type:

**Optional Features**

☐ Allow Reports

☐ Allow Activities

☐ Track Field History

**Object Classification**

When these settings are enabled, this object is classified as an Enterprise Application object. When these settings are disabled, this object is classified as a Light Application object. [Learn more.](#)

☒ Allow Sharing

☒ Allow Bulk API Access

☒ Allow Streaming API Access

**Deployment Status**

☐ In Development

☒ Deployed

**Search Status**

When this setting is enabled, your users can find records of this object type when they search. [Learn more.](#)

☐ Allow Search

**Object Creation Options (Available only when custom object is first created)**

☐ Add Notes and Attachments related list to default page layout

☐ Launch New Custom Tab Wizard after saving this custom object

[Save] [Save & New] [Cancel]

4. Click on Save.

## **Task 2 a : Create Venue Object**

To create an object:

1. From the setup page >> Click on Object Manager >> Click on Create >>Click on Custom Object.
  1. Enter the label name >> Venue
  2. Plural label name >> Venues
  3. Enter Record Name, Label, and Format
    - Record Name >> Venue Name
    - Data Type >> Text
2. Click on Allow reports and Track Field History,Allow Activities.
3. Allow search >> Save.

## **Task 2 b : Create Drop-Off Point Object**

To create an object:

1. From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.
  1. Enter the label name >> Drop-Off Point
  2. Plural label name>> Drop-Off Points
  3. Enter Record Name, Label, and Format
    - Record Name >> Drop-Off point Name
    - Data Type >> Text
2. Click on Allow reports and Track Field History,Allow Activities
3. Allow search >> Save.

## **Task 2 c : Create Task Object**

To create an object:

1. From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.
  1. Enter the label name>> Task

2. Plural label name>> Tasks
3. Enter Record Name, Label, and Format
  - Record Name >> Task Name
  - Data Type >> Text
2. Click on Allow reports and Track Field History,Allow Activities
3. Allow search >> Save.

## **Task 2 d : Create Volunteer Object**

### **To create an object:**

1. From the setup page >> Click on Object Manager>> Click on Create >> Click on Custom Object.
  1. Enter the label name>> Volunteer
  2. Plural label name>> Volunteers
  3. Enter Record Name, Label, and Format
    - Record Name >> Volunteer Name
    - Data Type >> Text
2. Click on Allow reports and Track Field History, Allow Activities
3. Allow search >> Save.

## **Task 2 e : Create Execution Details Object**

### **To create an object:**

1. From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.
  1. Enter the label name >> Execution Detail
  2. Plural label name >> Execution Details
  3. Enter Record Name, Label, and Format
    - Record Name >> Execution Detail Name
    - Data Type >> Text
2. Click on Allow reports and Track Field History, Allow Activities
3. Allow search >> Save.



## Task 3 : Tabs

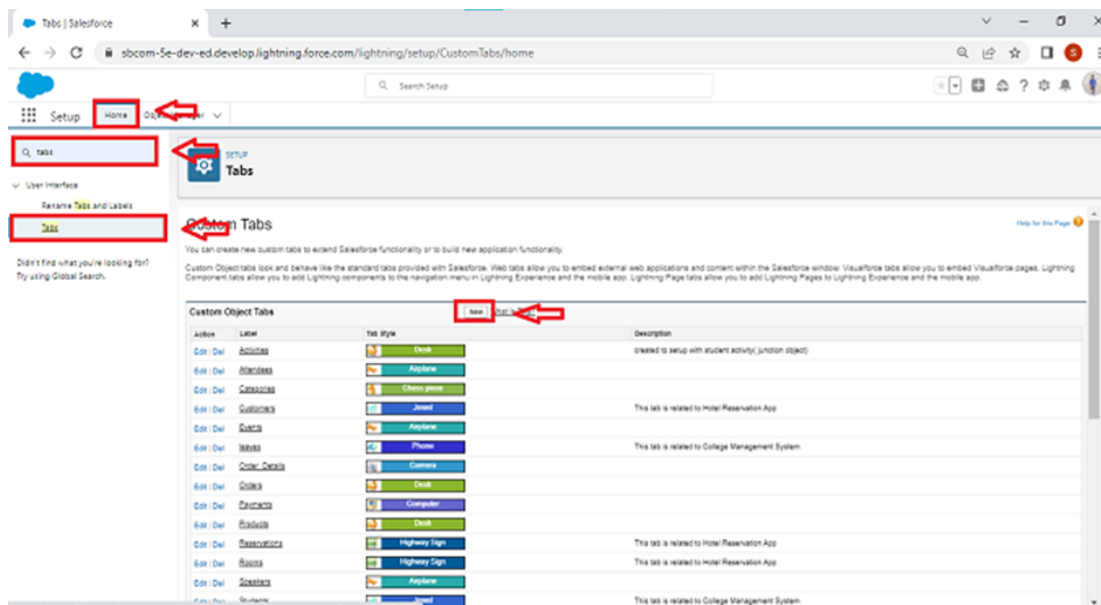
## What is Tab :

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 the setup page >> type Tabs in the Quick Find bar >> click on tabs >> New (under the custom object tab)



1. 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 .
2. Make sure that the Append tab to users' existing personal customizations is checked.
3. Click save

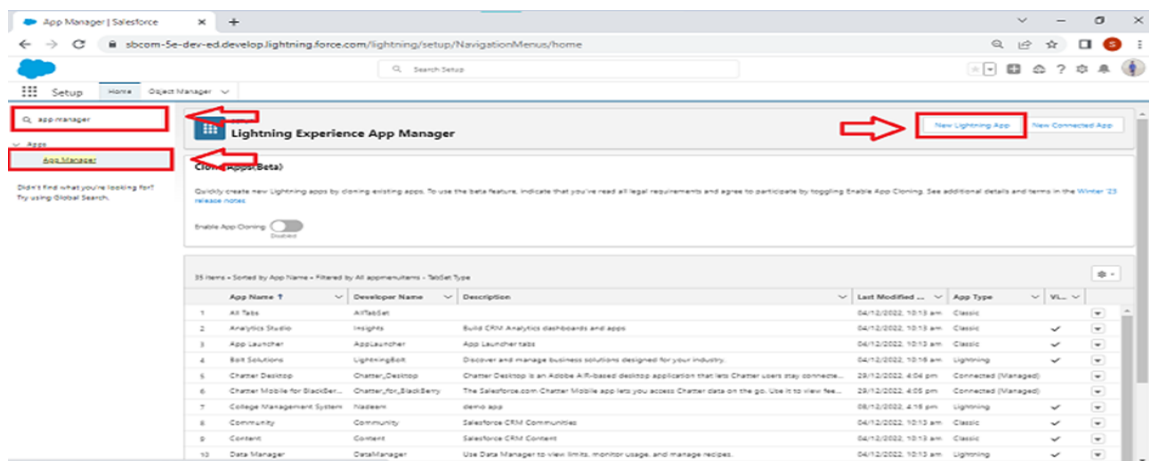
## Creating Remaining Tabs

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 in creating a custom tab.

## Task 4 : The Lightning App

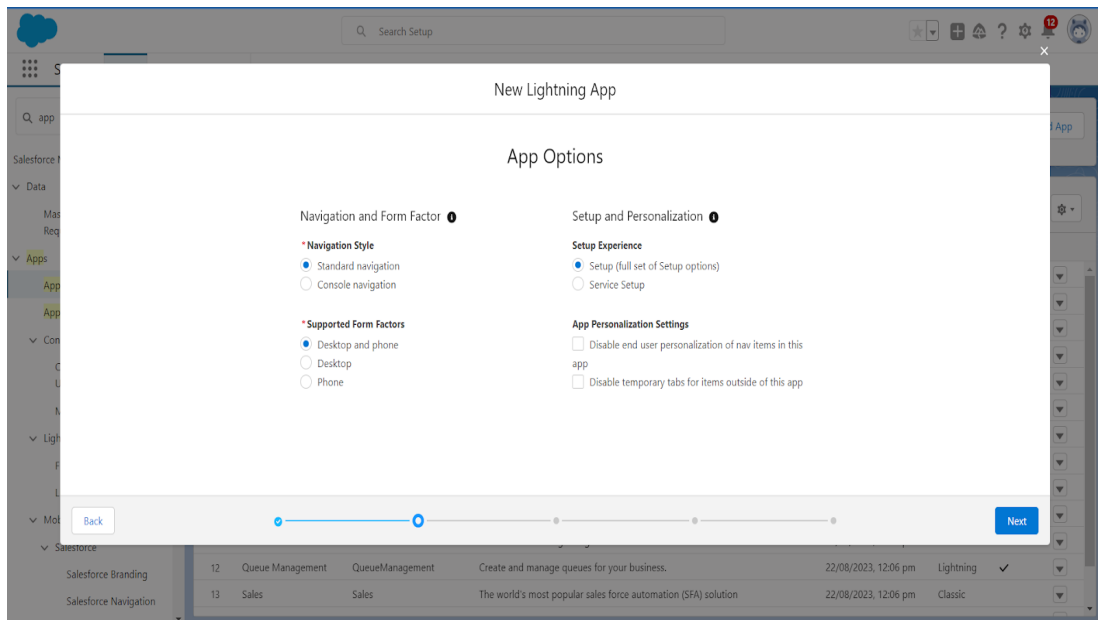
### To create a lightning app page:

1. Go to the setup page >> search “app manager” in quick find >> select “app manager” >> click on New lightning App.



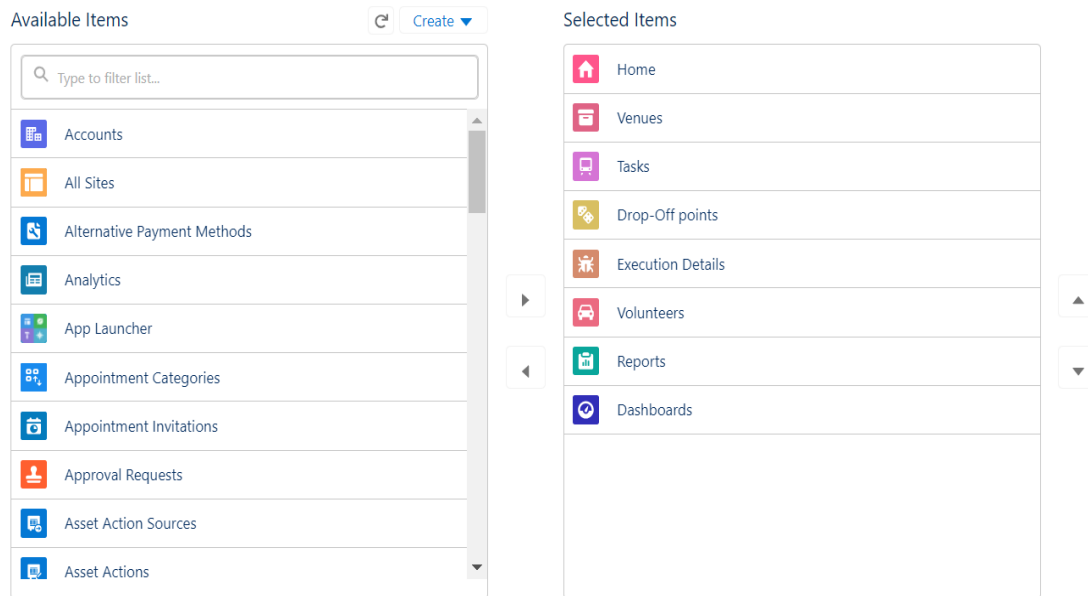
2. Fill the app name in app details and branding as follow  
App Name : Food Connect, Developer Name : This will auto be populated  
, Image : optional (if you want to give any image, you can otherwise not mandatory), Primary color hex value : keep this default.

3. Then click Next >> (App option page) Set Navigation Style as Standard Navigation >> Next.



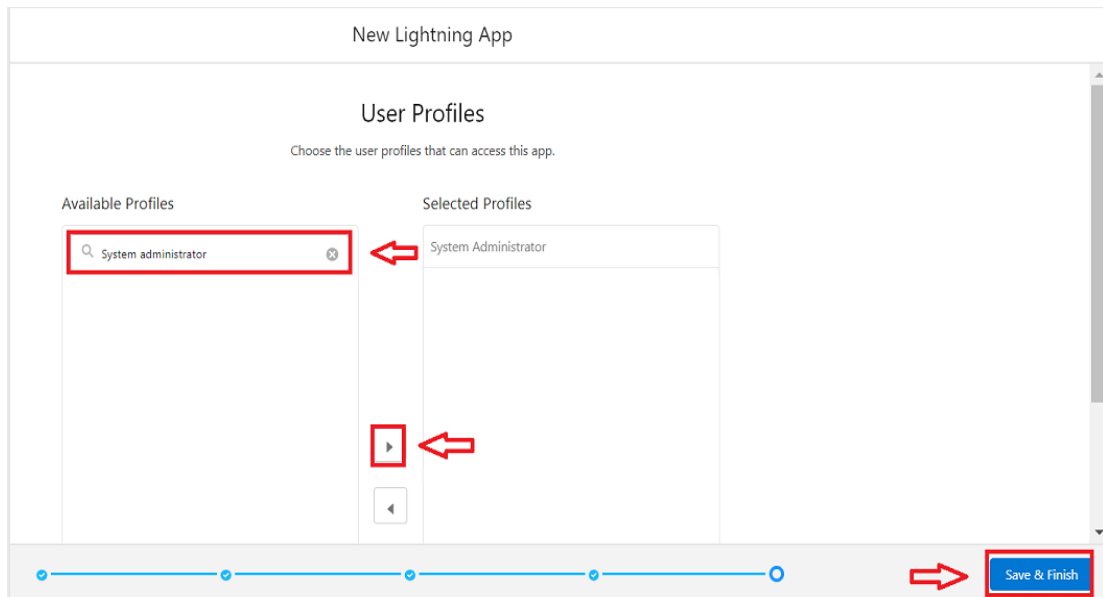
4.(Utility Items) keep it as default >> Next.

5. 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.

## 6. To Add User Profiles:

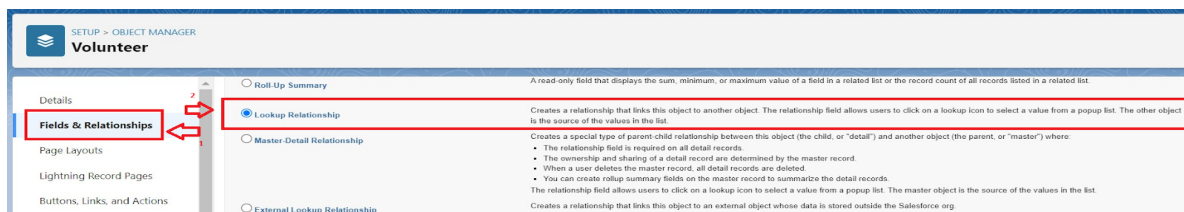


Search profiles (System administrator) in the search bar >> click on the arrow button >> save & finish.

## Task 5 : Fields

### Task 5 a :Creation of Lookup Relationship Field on Volunteer

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.

### **Creation of Master Detail Relationship Field onExecution DetailsObject :**

8. Go to setup >> click on Object Manager >> type object name(Execution Details) in the search bar >> click on the object.
9. Now click on "Fields & Relationships" >> New
10. Select Master Detail relationship
11. Select the related object "Volunteer" and click next.
12. Field Name : Volunteer
13. Field label : Auto generated
14. Next >> Next >> Save.

### **Creation of Master Detail Relationship Field onExecution DetailsObject :**

15. Go to setup >> click on Object Manager >> type object name(Execution Details) in the search bar >> click on the object.
16. Now click on "Fields & Relationships" >> New

17. Select Master Detail relationship
18. Select the related object "Task" and click next.
19. Field Name : Task
20. Field label : Auto generated
21. Next >> Next >> Save.

#### **Creation of Lookup Relationship Field on Drop-Off Point Object :**

22. Go to setup >> click on Object Manager >> type object name(Task) in the search bar >> click on the object.
23. Now click on "Fields & Relationships" >> New
24. Select Lookup relationship
25. Select the related object "Drop-Off Point" and click next.
26. Field Name : Venue
27. Field label : Venue\_\_c
28. Next >> Next >> Save.

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

29. Go to setup >> click on Object Manager >> type object name(Task) in the search bar >> click on the object.
30. Now click on "Fields & Relationships" >> New
31. Select Lookup relationship
32. Select the related object "Venue" and click next.
33. Field Name : Sponsored By
34. Field label : Auto generated
35. Next >> Next >> Save.

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

36. Go to setup >> click on Object Manager >> type object name(Task) in the search bar >> click on the object.

37. Now click on "Fields & Relationships" >> New
38. Select Lookup relationship
39. Select the related object "Drop-Off point" and click next.
40. Field Name : Drop-Off point
41. Field label : Auto generated
42. Next >> Next >> Save.

## **Task 5 b : Creation of fields for the Venue object**

1. Go to setup>> click on Object Manager >> type object name(Venue) in search bar >> click on the object.
2. Now click on "Fields & Relationships" >> New
3. Select Data type as an "Email" and Click on Next
4. Fill the Above as following:
  - Field Label : Contact Email
  - Field Name : Contact Email
  - Click on required check box
  - Click on Next >> Next >> Save and new.

### **To create another fields in an object:**

5. Go to setup >> click on Object Manager >> type object name(Venue) in search bar >> click on the object.
6. Now click on "Fields & Relationships" >> New
7. Select Data type as a "Phone" and Click on Next
8. Fill the Above as following:
  - Field Label : Contact Phone
  - Field Name : Contact Phone
  - Click on required check box
  - Click on Next >> Next >> Save and new.

### **To create another fields in an object:**

1. Go to setup >> click on Object Manager >> type object name(Venue) in search bar >>click on the object.

2. Now click on "Fields & Relationships" >> New
3. Select Data type as a "Geolocation" and Click on Next
4. Fill the Above as following:
  - Field Label : Location
  - Decimal Places : 4
  - Field Name : Location
  - Description : Enter the Geolocation of your Venue
  - Click on Next >> Next >> Save and new.

#### **To create another fields in an object:**

9. Go to setup >> click on Object Manager >> type object name(Venue) in search bar >> click on the object.
10. Now click on "Fields & Relationships" >> New
11. Select Data type as a "Long Text Area" and Click on Next
12. Fill the Above as following:
  - Field Label : Venue Location
  - Field Name : Venue\_Location
  - Click on Next >> Next >> Save and new.

### **Task 5 c : Creation of fields for the Drop-Off point object**

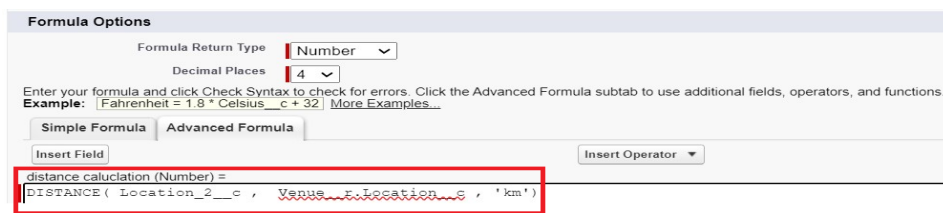
Go to setup >> click on Object Manager >> type object name(Drop-Off point) in search bar >> click on the object.

2. Now click on "Fields & Relationships" >> New
3. Select Data type as a "Geolocation" and Click on Next
4. Fill the Above as following:
  - Field Label : Location 2
  - Field Name : gets auto generated
  - Description : Enter the Geolocation of the Drop off Point
  - Geolocation Options : select Decimal
  - Decimal Places : 4
  - Click on Next >> Next >> Save and new.



### To create another fields in an object:

1. Go to setup >> click on Object Manager >> type object name(Drop-Off point) in search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Formula” and Click on Next
4. Fill the Above as following:
  - Field Label : distance calculation
  - Field Name : distance\_calculation
  - Formula Return Type : Number
  - Formula Options : DISTANCE( Location\_2\_\_c , Venue\_\_r.Location\_\_c , 'km')
  - Click on Next >> Next >> Save and new.



**Formula Options**

Formula Return Type: **Number**

Decimal Places: **4**

Enter your formula and click Check Syntax to check for errors. Click the Advanced Formula subtab to use additional fields, operators, and functions.  
**Example:** Fahrenheit = 1.8 \* Celsius\_\_c + 32 | [More Examples...](#)

**Simple Formula** | **Advanced Formula**

**Insert Field** **Insert Operator**

distance calculation (Number) =  
DISTANCE( Location\_2\_\_c , Venue\_\_r.Location\_\_c , 'km')

### To create another fields in an object:

5. Go to setup >> click on Object Manager >> type object name(Drop-Off point) in search bar >> click on the object.
6. Now click on “Fields & Relationships” >> New
7. Select Data type as a “Picklist” and Click on Next
8. Fill the Above as following:
  - Field Label : State
  - Field Name : State
  - Enter values, with each value separated by a new line :

Andhra Pradesh  
Arunachal Pradesh  
Assam  
Bihar  
Chhattisgarh  
Goa  
Gujarat  
Haryana  
Himachal Pradesh  
Jharkhand  
Karnataka  
Kerala  
Maharashtra  
Madhya Pradesh  
Manipur  
Meghalaya  
Mizoram  
Nagaland  
Odisha  
Punjab  
Rajasthan  
Sikkim  
Tamil Nadu  
Tripura  
Telangana  
Uttar Pradesh  
Uttarakhand  
West Bengal  
Andaman & Nicobar (UT)  
Chandigarh (UT)  
Dadra & Nagar Haveli and Daman & Diu (UT)  
Delhi [National Capital Territory (NCT)]  
Jammu & Kashmir (UT)

Ladakh (UT)

Lakshadweep (UT)

Puducherry (UT)

- Click on required check box
- Click on Next >> Next >> Save and new.

### **To create another fields in an object:**

9. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.

10. Now click on "Fields & Relationships" >> New

11. Select Data type as a "Number" and Click on Next

12. Fill the Above as following:

- Field Label : Distance
- Field Name : Distance
- Length: 14
- Decimal Places : 4
- Click on required check box
- Click on Next >> Next >> Save and new.

## **Task 5 d : Creation of fields for the Task object**

Go to setup>> click on Object Manager >> type object name(Task) in search bar >> click on the object.

2. Now click on "Fields & Relationships" >> New

3. Select Data type as a "Auto Number" and Click on Next

4. Fill the Above as following:

- Field Label : Task ID
- Display Format : TASK-{0}
- Starting Number : 1
- Field Name : gets auto generated
- Click on required check box
- Click on Next >> Next >> Save and new.

**To create another fields in an object:**

1. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
2. Now click on "Fields & Relationships" >> New
3. Select Data type as a "Date" and Click on Next
4. Fill the Above as following:
  - Field Label : Date
  - Field Name : Date
  - Click on required check box
  - Click on Next >> Next >> Save and new.

**To create another fields in an object:**

5. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
6. Now click on "Fields & Relationships" >> New
7. Select Data type as a "Picklist (Multi-Select)" and Click on Next
8. Fill the Above as following:
  - Field Label : Food Category
  - Field Name : Food Category
  - Enter values, with each value separated by a new line :  
Veg  
Non-Veg  
Salad  
Snack
  - Click on required check box
  - Click on Next >> Next >> Save and new.

**To create another fields in an object:**

9. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
10. Now click on "Fields & Relationships" >> New
11. Select Data type as a "Number" and Click on Next
12. Fill the Above as following:

- Field Label : Number of People Served
- Field Name : Number\_of\_People\_Served
- Click on required check box
- Click on Next >> Next >> Save and new.

**To create another fields in an object:**

13. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
14. Now click on "Fields & Relationships" >> New
15. Select Data type as a "Text" and Click on Next
16. Fill the Above as following:
  - Field Label : Name of the Person
  - Field Name : Name\_of\_the\_Person
  - Click on Next >> Next >> Save and new.

**To create another fields in an object:**

17. Go to setup>> click on Object Manager >> type object name(Task) in search bar >> click on the object.
18. Now click on "Fields & Relationships" >> New
19. Select Data type as a "Phone" and Click on Next
20. Fill the Above as following:
  - Field Label : Phone
  - Field Name : Phone
  - Click on Next >> Next>> Save and new.

**To create another fields in an object:**

21. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
22. Now click on "Fields & Relationships" >> New
23. Select Data type as a "Pick List" and Click on Next
24. Fill the Above as following:
  - Field Label : Rating
  - Field Name : Rating

- Enter values, with each value separated by a new line :  
1  
2  
3  
4  
5
- Click on Next >> Next >> Save and new.

#### **To create another fields in an object:**

25. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
26. Now click on "Fields & Relationships" >> New
27. Select Data type as a "Long Text Area" and Click on Next
28. Fill the Above as following:
  - Field Label : Feedback
  - Field Name : Feedback
  - Click on Next >> Next >> Save and new.

### **Task 5 e : Creation of fields for the Volunteer object**

1. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
2. Now click on "Fields & Relationships" >> New
3. Select Data type as a "Auto Number" and Click on Next
4. Fill the Above as following:
  - Field Label : Volunteer ID
  - Field Name : gets auto generated
  - Click on required check box
  - Click on Next >> Next >> Save and new.
  - Click on Next >> Next >> Save and new.

#### **To create another fields in an object:**

1. Go to setup >> click on Object Manager >> type object name(Volunteer) in

search bar >> click on the object.

2. Now click on "Fields & Relationships" >> New
3. Select Data type as a "Picklist" and Click on Next
4. Fill the Above as following:
  - Field Label : Gender
  - Field Name : Gender
  - Enter values, with each value separated by a new line :  
Female  
Male
  - Click on Next >> Next >> Save and new.

#### **To create another fields in an object:**

5. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
6. Now click on "Fields & Relationships" >> New
7. Select Data type as a "Date" and Click on Next
8. Fill the Above as following:
  - Field Label : Available On
  - Field Name : Available On
  - Click on required check box
  - Click on Next >> Next >> Save and new.

#### **To create another fields in an object:**

9. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
10. Now click on "Fields & Relationships" >> New
11. Select Data type as a "Number" and Click on Next
12. Fill the Above as following:
  - Field Label : Age
  - Field Name : Age
  - Click on required check box
  - Click on Next >> Next >> Save and new.

**To create another fields in an object:**

13. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
14. Now click on "Fields & Relationships" >> New
15. Select Data type as a "Email" and Click on Next
16. Fill the Above as following:
  - Field Label : Email
  - Field Name : Email
  - Click on required check box
  - Click on Next>> Next >> Save and new.

**To create another fields in an object:**

17. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
18. Now click on "Fields & Relationships" >> New
19. Select Data type as a "Number" and Click on Next
20. Fill the Above as following:
  - Field Label : Contact Number
  - Field Name : Contact\_Number
  - Click on required check box
  - Click on Next >> Next >> Save and new.

**To create another fields in an object:**

21. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
22. Now click on "Fields & Relationships" >> New
23. Select Data type as a "Text Area (Long)" and Click on Next
24. Fill the Above as following:
  - Field Label : Address
  - Field Name : Address
  - Click on Next >> Next >> Save and new.



### **To create another fields in an object:**

25. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
26. Now click on "Fields & Relationships" >> New
27. Select Data type as a "Date" and Click on Next
28. Fill the Above as following:
  - Field Label : Date of Birth
  - Field Name : Date\_of\_Birth
  - Click on Next >> Next >> Save and new.

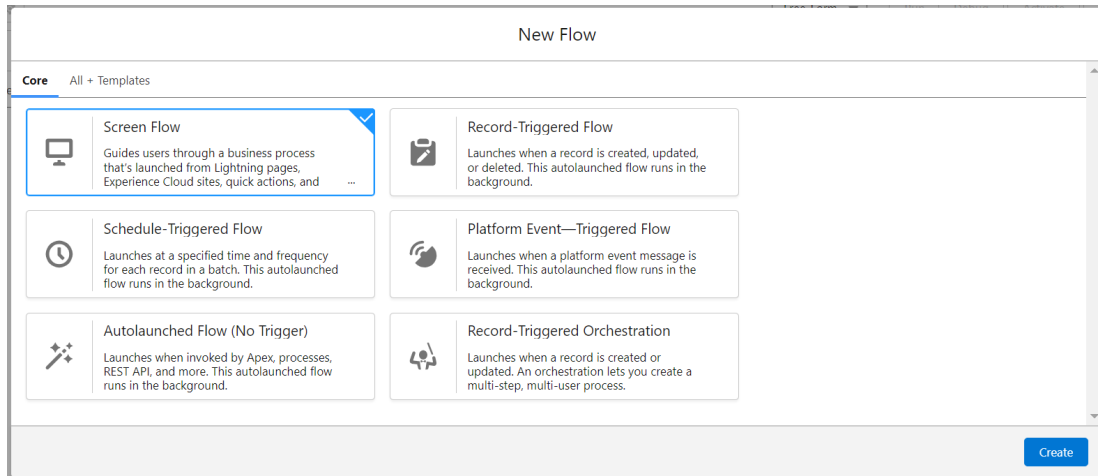
### **Task 5 f : Creation of fields for the Execution Details object**

1. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
2. Now click on "Fields & Relationships" >> New
3. Select Data type as a "Auto Number" and Click on Next
4. Fill the Above as following:
  - Field Label : Execution ID
  - Field Name : gets auto generated
  - Click on required check box
  - Click on Next >> Next >> Save and new.

## **Task 6 : FLOWS**

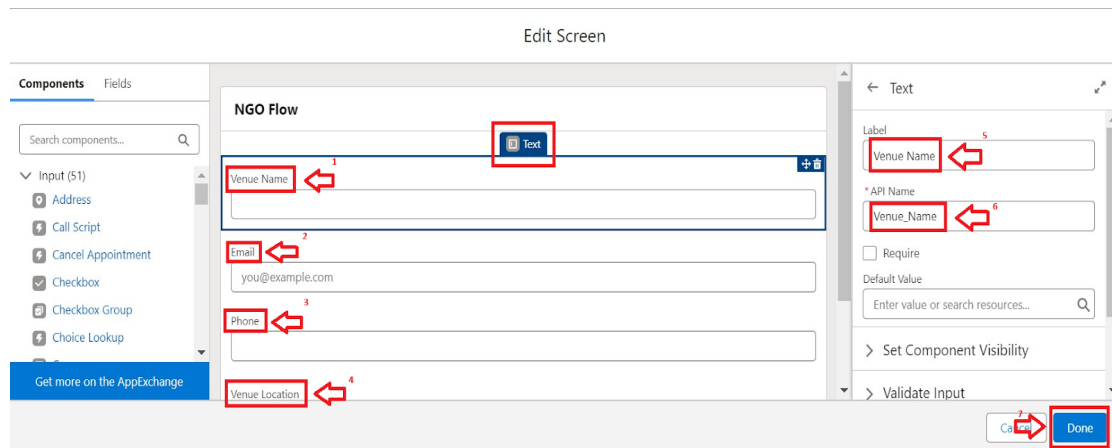
### **Create Flow to create a record in Venue object**

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 look 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:

Create a Record of This Object

\* Object  
Venue

---

Set Field Values for the Venue

Field Contact_Email__c	←	Value [A_a Contact_Email > Value X]	
Field Contact_Phone__c	←	Value [A_a Contact_Phone > Value X]	
Field Name	←	Value [A_a Venue_Name X]	
Field Venue_Location__c	←	Value [A_a location X]	

15. Click on Save as:

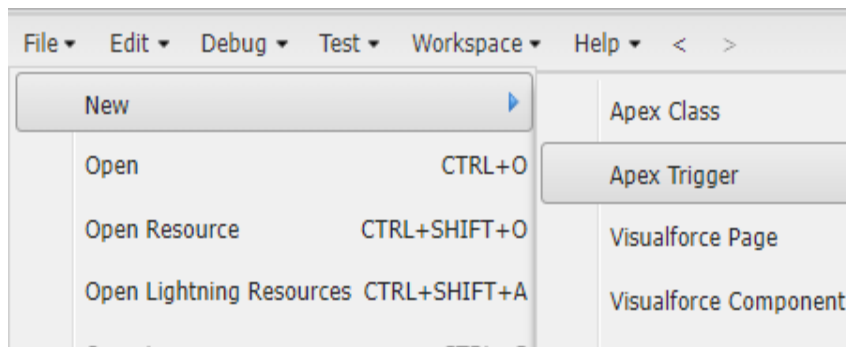
Flow Label : Venue Form

Flow API Name : Venue\_Form

## Task 7 : Trigger

### Task 7 a : Create a Trigger

1. Log into the trail head 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.



5. Enter Name : DropOffTrigger  
sObject: Drop-Off Point
6. Click on Submit.

## Task 7 b : Trigger Code

(This Trigger is to assign Distance field to the Distance Calculation field. So that we can assign the distance in the sharing rules.)

### Code:

```
trigger DropOffTrigger on Drop_Off_point__c (before insert) {
    for(Drop_Off_point__c Drop : Trigger.new){
        Drop.Distance__c = Drop.distance_calculation__c;
    }
}
```

## Task 8 : 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  
Then click on Save

## Task 9 : Creation of Users

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 : [ikshafoundation@sb.com](mailto:ikshafoundation@sb.com) (give the username different)

Nickname : Auto Populated

User License : Salesforce Platform

Profile : NGOs Profile

Active : Check

General Information	
First Name	<input type="text" value="Iksha Foundation"/>
Last Name	<input type="text" value="Iksha_Foundation"/>
Alias	<input type="text" value="iiksh"/>
Email	<input type="text" value="bhargavipaila1023@gmail.c"/>
Username	<input type="text" value="ikshafoundation@sb.com"/>
Nickname	<input type="text" value="User1711437164226559933"/> 
Title	<input type="text"/>
Company	<input type="text"/>
Department	<input type="text"/>
Division	<input type="text"/>
Role	<input type="text" value="&lt;None Specified&gt;"/>
User License	<input type="text" value="Salesforce Platform"/>
Profile	<input type="text" value="NGOs Profile"/> 
Active	<input checked="" type="checkbox"/>
Marketing User	<input type="checkbox"/>
Offline User	<input type="checkbox"/>
Knowledge User	<input type="checkbox"/>
Flow User	<input type="checkbox"/>
Service Cloud User	<input type="checkbox"/>
Site.com Contributor User	<input type="checkbox"/>

3. 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.

<input type="checkbox"/>	<a href="#">Edit</a>   <a href="#">Login</a>	<a href="#">Iksha_Foundation, Iksha Foundation</a>	<a href="#">iksh</a>	<a href="#">ikshafoundation@sb.com</a>	<input checked="" type="checkbox"/>	<a href="#">NGOs Profile</a>
<input type="checkbox"/>	<a href="#">Edit</a>   <a href="#">Login</a>	<a href="#">NSS, NSS</a>	<a href="#">nnss</a>	<a href="#">nss@sb.com</a>	<input checked="" type="checkbox"/>	<a href="#">NGOs Profile</a>
<input type="checkbox"/>	<a href="#">Edit</a>   <a href="#">Login</a>	<a href="#">Street_Cause, Street Cause</a>	<a href="#">sstre</a>	<a href="#">streetcause@sb.com</a>	<input checked="" type="checkbox"/>	<a href="#">NGOs Profile</a>

## Task 10 : Public Groups

### Task 10 a : 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
3. In Search, Select Users.
4. In Selected Members Add Iksha Foundation and System Administrator

### Task 10 b : 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.

New				
Action	Label ↑	Group Name	Created By	Created Date
<a href="#">Edit</a>   <a href="#">Del</a>	<a href="#">Iksha</a>	<a href="#">Iksha</a>	<a href="#">Bhargavi_Paila</a>	26/03/2024, 2:27 pm
<a href="#">Edit</a>   <a href="#">Del</a>	<a href="#">NSS</a>	<a href="#">NSS</a>	<a href="#">Bhargavi_Paila</a>	26/03/2024, 2:27 pm
<a href="#">Edit</a>   <a href="#">Del</a>	<a href="#">Street Cause</a>	<a href="#">Street_Cause</a>	<a href="#">Bhargavi_Paila</a>	26/03/2024, 2:28 pm

## Task 11 : Report Types

### Creation of Report Types

1. 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
3. Click on Next
4. Near Click to relate another Object Select Drop-Off Points.
5. And also select "A" records may or may not have related "B" records.
6. Now again Near Click to relate another Object Select Volunteers.
7. Now click on Save.

## Task 12 : Reports

### Task 12 a : 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
3. Open Custom Reports and click on New Report
4. Select Report Type : Venue with DropOff with Volunteer
5. Then click on Start Report.
6. In GROUP ROWS : Add Volunteer Name
7. In Columns : Add Venue Name, Drop-Off point Name, Distance.



The screenshot shows the FoodConnect application interface. At the top, there's a search bar and navigation tabs: Home, Venues, Tasks, Drop-Off Points, Execution Details, Volunteers, Reports (selected), and Dashboards. Below the navigation bar, the 'REPORT' section is active, showing 'Volunteer Task' and 'Tasks with Execution Details and Volunteers'. A 'Save & Run' button is visible. The main area displays a table with columns: Volunteer: Volunteer ID, Task: Task Name, Execution Detail: Execution Detail Name, Volunteer: Volunteer Name, Task: Owner Name, and Date. The table contains three rows of data, each with a 'Subtotal' row. The bottom of the interface has toggle switches for Row Counts, Detail Rows, Subtotals, and Grand Total.

Volunteer: Volunteer ID	Task: Task Name	Execution Detail: Execution Detail Name	Volunteer: Volunteer Name	Task: Owner Name	Date
1 (1)	Giveaway	FOODdelieve	Cin	Cindrela Dawn	08/08/2024
Subtotal					
2 (1)	Giveaway	TadaaaFood	Katyy	Cindrela Dawn	08/08/2024
Subtotal					
3 (1)	DonateFood	FoodExpresso	Sriiii	Cindrela Dawn	04/08/2024
Subtotal					

8. Now click on Save & Run.
9. Give Label as :
10. Report Name : venue and Drop Off point
11. Report Unique Name : Auto Populated
12. Click on Select Folder and select Custom Report, then click on Save.

### Task 12 b : 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.

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

Search...

Report: Tasks with Execution Details and Volunteers

Volunteer Task

Enable Field Editing

Total Records: 5

Volunteer: Volunteer ID	Task: Task Name	Execution Detail: Execution Detail Name	Volunteer: Volunteer Name	Task: Owner Name	Date	Rating
1 (1)	Giveaway	FOODdelverie	Cin	Cindrela Dawn	08/08/2024	4
Subtotal						
2 (1)	Giveaway	TadaaaFood	Katyy	Cindrela Dawn	08/08/2024	4
Subtotal						
3 (1)	DonateFood	FoodExpresso	Sriiii	Cindrela Dawn	04/08/2024	5
Subtotal						
4 (1)	Fooddeliver	Aminia	Vidi	Cindrela Dawn	05/08/2024	4
Subtotal						
5 (1)	Foood	Sher-E-Punjab	Shreya	Cindrela Dawn	09/07/2024	2
Subtotal						
Total (5)						

Row Counts Detail Rows Subtotals Grand Total

7. Now click on Save & Run.

8. Give Label as :

Report Name : Volunteer Task

Report Unique Name : Auto Populated

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

## Task 13 : Dashboards

### Task 13 a : 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

3. Open Custom Dashboards and click on New Dashboards

4. Name : Organization Details

5. Click on Widget and select Chart or Table

6. In Select Report : Select venue and Drop Off point Report.


7. Then click on select

8. In Add Component:

Display As : Select Lightning Table

Component Theme : Select Dark (Optional)

venue and Drop Off point



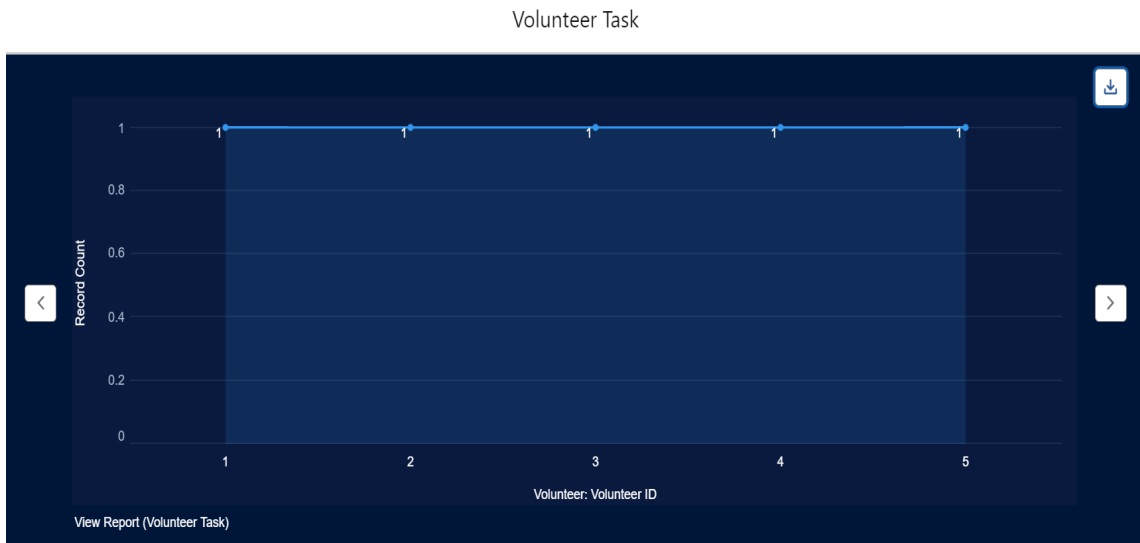
Venue Name ↑	Drop-Off Point Name	Distance
Ballygunge	BudgeBudge	4.6702κ
Baranagar	Bonhoogly	2.6638κ
Baranagar	Tollygunge	2.7923κ
College Street	Shyambazaar	333.5853
Kumartolli	Kumartolli	2.3838κ

View Report (venue and Drop Off point)

1. Now click on save.

### Task 13 b : Adding Volunteer Task Report to the Dashboard

1. Click on Widget and select Chart or Table
2. In Select Report : Select Volunteer Task Report.
3. Then click on select
4. In Add Component:  
Display As : Select Line Chart  
Component Theme : Select Dark (Optional)



1. Now click on save.

### Task 13 c : Adding a Picture to the Dashboard (Optional)

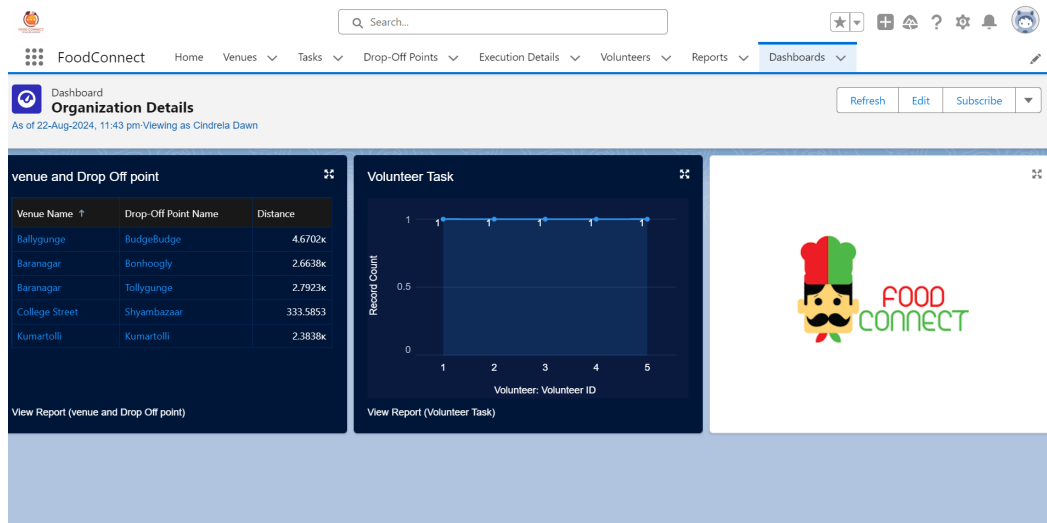
(Note : To upload an image into the Dashboard, we have to first download an image from google or other sources into your system)

1. Click on Widget and select Image. Then click on Browse Files.
2. Then Select the Picture you want to upload in this Dashboard.
3. Then click on Save As :

Name : Task Execution Details

Click on Select Folder and select Custom Dashboards

4. Click on Select Folder and then Save.



## Task 14 : 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.

Drop-Off point Sharing Rules			
		New	Recalculate
		Drop-Off point Sharing Rules Help ?	
Action	Criteria	Shared With	Access Level
<a href="#">Edit</a>   <a href="#">Del</a>	Drop-Off point: Distance LESS OR EQUAL 15	<a href="#">Group: Iksha</a>	Read/Write
<a href="#">Edit</a>   <a href="#">Del</a>	(Drop-Off point: Distance GREATER THAN 15) AND (Drop-Off point: Distance LESS OR EQUAL 30)	<a href="#">Group: NSS</a>	Read/Write
<a href="#">Edit</a>   <a href="#">Del</a>	(Drop-Off point: Distance GREATER THAN 30) AND (Drop-Off point: Distance LESS OR EQUAL 50)	<a href="#">Group: Street Cause</a>	Read/Write

## Task 15 : Home Page

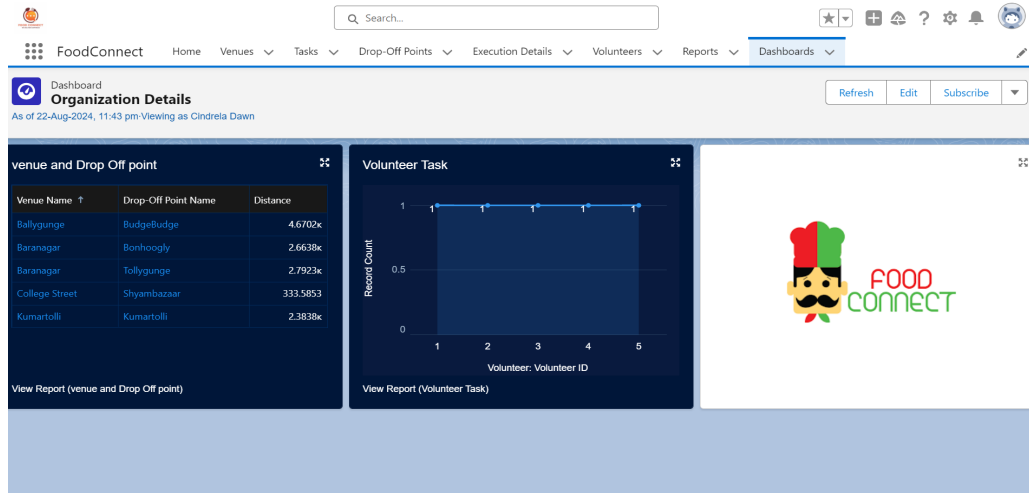
### Creation of Home Page

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

6. Near Components search for Dashboard, then Drag and Drop it in first Section.



7. Click on Save and Activation, then click on App Default, then Add Assignments.

8. Add FoodConnect App and then Save.

9. FoodConnect Home Page would look like this.

The screenshot shows the FoodConnect Home page. At the top, there's a search bar and navigation links: Home, Venues, Tasks, Drop-Off Points, Execution Details, Volunteers, Reports, and Dashboards. The main section is titled 'Dashboard Organization Details' with a timestamp 'As of 22-Aug-2024, 11:43 pm-Viewing as Cindrela Dawn'. Below this, there are three widgets: 1. 'venue and Drop Off point' table: 

Venue Na...	Drop-Off Point ...	Dist...
Ballygunge	BudgeBudge	4.6702
Baranagar	Bonhoogly	2.6638
Baranagar	Tollygunge	2.7923
College Street	Shyambazaar	333.58
Kumartolli	Kumartolli	2.3838

 2. 'Volunteer Task' chart: A line chart showing 'Record Count' (0 to 1) on the y-axis and 'Volunteer: Volunteer ID' (1 to 5) on the x-axis. 3. A large white box containing the FoodConnect logo, which features a chef's hat and the text 'FOOD connect'. To the right of these widgets is a 'Venue Form' with fields for: Venue Name, Email (you@example.com), Phone, Venue Location, Latitude, and Longitude. A 'Next' button is at the bottom right of the form.

## **Conclusion**

By leveraging the Salesforce platform, the project successfully established a streamlined and transparent system for managing surplus food donations. Through efficient coordination with volunteers and timely delivery to beneficiaries, the project effectively addressed food insecurity while maximizing the utilization of available resources.

# **Thank You**







