

Salesforce Project

**Sharing surplus: Nourishing Those in
Need(To supply left over food)**

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ABSTRACT

The **Food Donation App in Salesforce** is designed to efficiently connect food donors, volunteers, and recipients, creating a streamlined solution to manage surplus food donations and distribution. Donors, whether individuals, restaurants, or grocery stores, can list food items available for donation, set expiration dates, and track donation status, ensuring timely and safe distribution. Volunteers are assigned tasks, such as food pickup, sorting, or delivery, with automated notifications for smooth coordination. This feature makes it easy for volunteers to participate and complete their tasks efficiently, supporting seamless movement of food from donors to those in need.

Recipient organizations, including community centers and nonprofits, can log food requests and track available resources, allowing donations to be matched quickly with areas of greatest need. The app's real-time dashboards and reporting provide actionable insights into donation volumes, volunteer participation, and the impact of distribution efforts. Leveraging Salesforce's capabilities, the Food Donation App brings transparency, efficiency, and scalability to food donation initiatives, helping reduce food waste and strengthen food security efforts in local communities.

This app leverages Salesforce's powerful automation tools, like Flows and Process Builder, to streamline each step of the donation process, from initial registration to final distribution. Automated workflows help assign volunteer tasks based on availability and proximity, while notifications keep donors, volunteers, and recipients updated on task progress and donation status. Additionally, the app's scalability allows it to adapt as donation volumes increase or new communities are included, making it a versatile solution for both local and larger-scale food donation efforts. Through its comprehensive approach, the Food Donation App fosters community engagement, making it easier for organizations to reduce waste and distribute food where it's needed most.

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INTRODCTION

Donating food to those in need is a simple yet impactful way to combat hunger and support vulnerable communities. Millions of people face food insecurity daily, struggling to access nutritious meals, while surplus food often goes to waste. By donating food, whether from individuals, businesses, or community drives, we can bridge this gap, reduce waste, and ensure food reaches those who need it most. Food donations help nourish children, families, and individuals, fostering a stronger, more compassionate community. In addition to meeting immediate needs, food donations contribute to long-term health and stability for recipients, offering hope and support in times of difficulty.

Food donation is not only about providing meals; it's about creating a network of care and resilience. When individuals, restaurants, grocery stores, and farms come together to share surplus food, it makes a tangible difference in the lives of people who may be facing unexpected financial hardships, homelessness, or unemployment. Organizations like food banks, shelters, and local charities rely on these donations to serve their communities consistently.

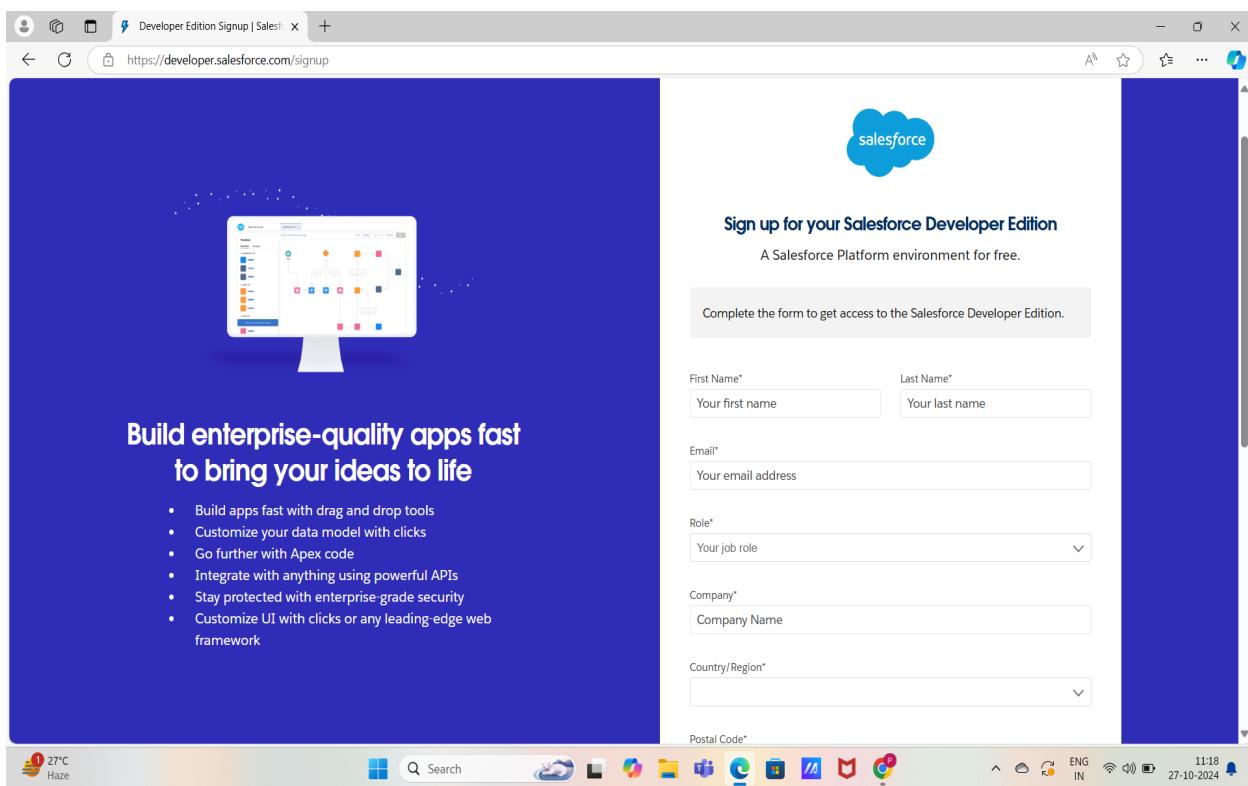
By reducing food waste and redistributing it to those in need, food donation efforts also contribute to environmental sustainability by lowering the amount of food that ends up in landfills, thereby reducing greenhouse gas emissions. Additionally, food donation helps raise awareness of the broader issue of hunger and encourages others to contribute, volunteer, or participate in food recovery initiatives. This collective approach has the power to create a lasting impact on hunger and food security, building a more inclusive, sustainable, and caring society.

TASK 1: Salesforce developer account creation

Creating Developer Account

Creating a developer org in salesforce.

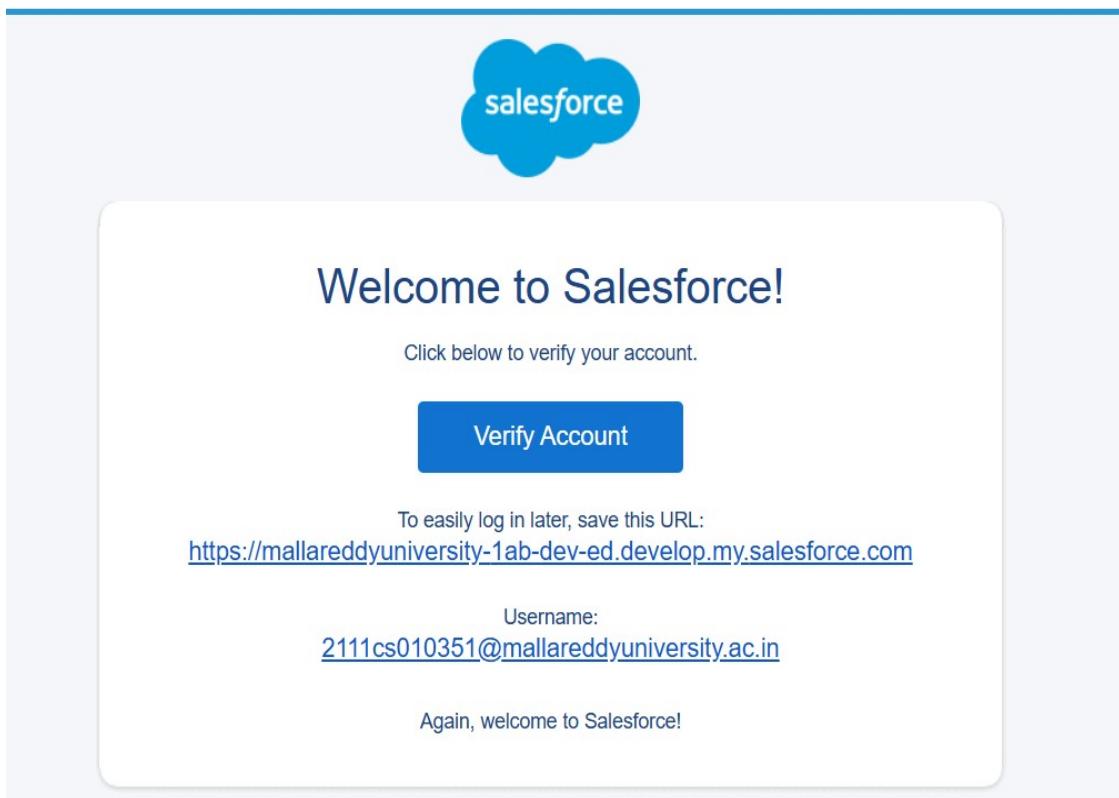
1. Go.to <https://developer.salesforce.com/signup>
2. On the sign up form, enter the following details :



1. First name & Last name
 2. Email
 3. Role : Developer
 4. Company : College or Company Name
 5. County : India
 6. Postal Code : pin code
 7. Username : should be a combination of your name and company
- Click on sign me up after filling these.

Account Activation

1. Go to the inbox of the email that you used while signing up. Click on the verifyaccount to activate your account. The email may take 5-10mins.



Change Your Password

Enter a new password for lead@sb.oom.
Make sure to include at least:

- 8 characters
- 1 letter
- 1 number

* New Password
..... Good

* Confirm New Password
..... Match

Security Question
In what city were you born?

* Answer
asdfghjkl

Change Password

1. Click on Verify Account
- 2 . Give a password and answer a security question and click on change password
3. Then you will redirect to your salesforce set.

SETUP Home

Get Started with Einstein Bots

Mobile Publisher

Real-time Collaborative Docs

Most Recently Used

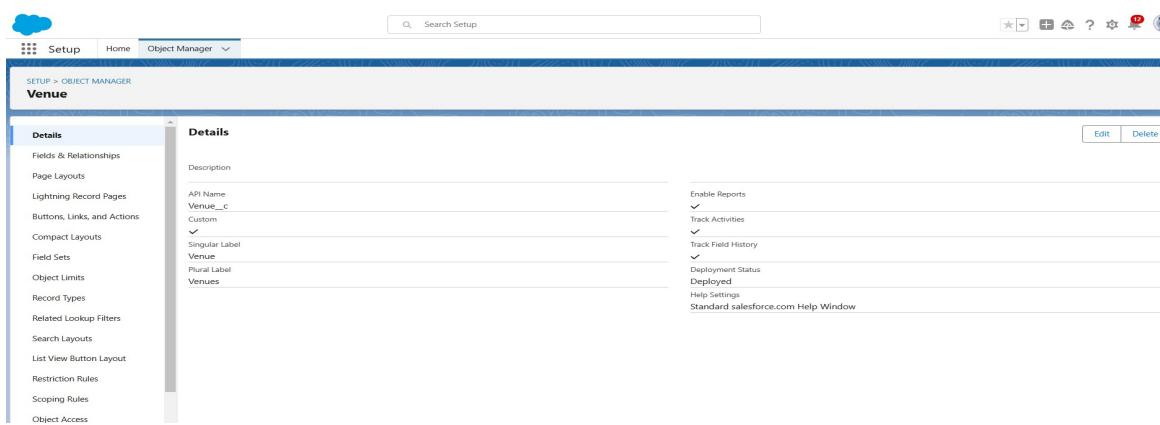
NAME	TYPE	OBJECT
HOME	Lightning Page	
Venue with DropOff with Volunteer	Custom Report Type	

TASK 2: Objects creation

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



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.

The screenshot shows the Salesforce Setup interface. In the top navigation bar, 'Setup' is selected. Below it, the 'Object Manager' section is open, and 'Drop-Off Point' is selected. The main area displays the 'Details' tab for the 'Drop-Off Point' object. On the left, a sidebar lists various configuration options like 'Fields & Relationships', 'Page Layouts', etc. The main 'Details' section shows the API name 'Drop_Off_Point__c' and other settings such as 'Custom' (selected), 'Singular Label' (Drop-Off Point), and 'Plural Label' (Drop-Off Points). On the right, there are checkboxes for 'Enable Reports', 'Track Activities', 'Track Field History' (all checked), and 'Deployment Status' (Deployed). At the bottom right of the main area are 'Edit' and 'Delete' buttons.

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

The screenshot shows the Salesforce Setup interface. At the top, there's a navigation bar with icons for Home, Object Manager, and a search bar labeled "Search Setup". Below the navigation is a breadcrumb trail: "SETUP > OBJECT MANAGER". The main area is titled "Task". On the left, a sidebar lists various setup categories like Fields & Relationships, Page Layouts, and Lightning Record Pages. The main content area has two tabs: "Details" and "Fields & Relationships". Under "Details", there are sections for Description, API Name (Task__c), Custom (✓), Singular Label (Task), Plural Label (Tasks), and several checkboxes for reports and history. At the bottom right of the main content area are "Edit" and "Delete" buttons.

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.Allowsearch>>Save.

The screenshot shows the Salesforce Setup interface. At the top, there's a navigation bar with icons for Home, Object Manager, and a search bar labeled "Search Setup". Below the navigation is a breadcrumb trail: "SETUP > OBJECT MANAGER". The main content area is titled "Volunteer". On the left, a sidebar lists various configuration options under the "Details" tab, such as 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, and Scoping Rules. The right side of the screen shows the "Details" section for the "Volunteer" object. It includes fields for Description, API Name (Volunteer__c), Singular Label (Volunteer), Plural Label (Volunteers), and several checkboxes for settings: Enable Reports (checked), Track Activities (checked), Track Field History (checked), Deployment Status (Deployed), Help Settings (Standard salesforce.com Help Window), and a link to "Edit" and "Delete".

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)

Go to setup page >> type Tabs in Quick Find bar >> click on tabs >> New (under 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 in above Activity.

The screenshot shows the Salesforce Setup interface. In the top navigation bar, there are icons for Home, Object Manager, and a search bar labeled "Search Setup". Below the navigation, there's a sidebar with sections like "User Interface" and "Rename Tabs and Labels". The main content area is titled "Custom Tabs" and contains a sub-section "Custom Object Tabs". It lists five tabs with their descriptions and icons:

Action	Label	Tab Style	Description
Edit Del	Drop-Off Points	Cell phone	
Edit Del	Execution Details	Books	
Edit Del	Tasks	Ticket	
Edit Del	Venues	Bottle	
Edit Del	Volunteers	Building Block	

Below this, there are sections for "Web Tabs" and "Visualforce Tabs", both of which currently have no entries.

TASK 4: The 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.

2. Fill the app name in app details and branding as follow

App Name :NourishNet 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.

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.

App Details & Branding

Give your Lightning app a name and description. Upload an image and choose the highlight color for its navigation bar.

App Details

- *App Name: NourishNet
- *Developer Name: FoodConnect
- Description: Nourish Food offers balanced, nutrient-rich meals made from fresh, whole ingredients

App Branding

- Image: Nourish logo
- Primary Color Hex Value: #40D74A

Org Theme Options

- Use the app's image and color instead of the org's custom theme

App Launcher Preview

NourishNet
Nourish Food offers balanced, nutrient-rich meals made...

App Settings

App Options

App Details & Branding

Navigation and Form Factor

- *Navigation Style
 - Standard navigation
 - Console navigation
- Supported Form Factors**
 - Desktop and phone
 - Desktop

If you don't see all the form factors in this list, it's because this app contains items that prevent selection of one or more options. For example, if an app contains pages assigned to the phone form factor, you can't switch the app to be for desktop only.

Setup and Personalization

- Setup Experience**
 - Setup (full set of Setup options)
 - Service Setup
- App Personalization Settings**
 - Disable end user personalization of nav items in this app
 - Disable temporary tabs for items outside of this app
 - Use Omni-Channel sidebar

App Settings

Navigation Items

Available Items

- Accounts
- All Sites
- Alternative Payment Methods
- Analytics
- App Launcher
- Appointment Categories
- Appointment Invitations
- Approval Requests
- Asset Action Sources
- Asset Actions
- Asset State Periods
- Assets

Selected Items

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

TASK 5: Fields creation

Creation of Relationship fields in objects

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.

Creation of Master Detail Relationship Field on Execution Details Object :

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 on Execution Details Object :

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.

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 a “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.

The screenshot shows the Salesforce Object Manager interface. The top navigation bar includes a cloud icon, 'Setup', 'Home', and 'Object Manager'. A search bar at the top right contains the placeholder 'Search Setup'. Below the header, the URL 'SETUP > OBJECT MANAGER' and the object name 'Venue' are displayed. On the left, a sidebar lists various setup categories like Page Layouts, Lightning Record Pages, etc. The main content area is titled 'Fields & Relationships' and shows a table of existing fields. The table has columns for 'FIELD LABEL', 'FIELD NAME', 'DATA TYPE', 'CONTROLLING FIELD', and 'INDEXED'. The data in the table is as follows:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Contact Email	Contact_Email_c	Email		
Contact Phone	Contact_Phone_c	Phone		
Created By	CreatedBy	Lookup(User)		
Last Modified By	LastModifiedBy	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)		✓

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 20

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.

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.

The screenshot shows the Salesforce Setup interface with the following details:

- Setup > OBJECT MANAGER**
- Drop-Off Point**
- Fields & Relationships** (selected)
- Fields & Relationships** table (9 items):

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
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	Venue_c	Lookup(Venue)		✓

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
 - 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.

The screenshot shows the Salesforce Object Manager interface. The left sidebar lists various setup categories like Page Layouts, Buttons, and Record Types. The main area is titled 'Fields & Relationships' and shows a table of fields for the 'Task' object. A new row is being added at the bottom. The columns are: FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. The new field is labeled 'Feedback', has a field name of 'Feedback__c', a data type of 'Long Text Area(32768)', and is indexed. Other fields listed include Created By, Date, Drop-Off Point, Food Category, Last Modified By, Name of the Person, Number of People Served, Owner, Phone, Rating, Sponsored By, Task ID, Task Name, and Venue.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
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		
Last Modified By	LastModifiedById	Lookup(User)		
Name of the Person	Name_of_the_Person__c	Text(18)		
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)		
Task ID	Task_ID__c	Auto Number		
Task Name	Name	Text(80)		
Venue	Venue__c	Lookup(Drop-Off Point)		

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.

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.

The screenshot shows the Salesforce Object Manager interface for the 'Volunteer' object. The left sidebar lists various setup options like Details, Fields & Relationships (which is selected), Page Layouts, Lightning Record Page, etc. The main content area displays a table of fields. The columns are FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. There are 13 items listed, sorted by Field Label. Key entries include 'Address' (Long Text Area), 'Age' (Number), 'Available On' (Date), 'Contact Number' (Number), 'Created By' (Lookup), 'Date of Birth' (Date), 'Drop-Off Point' (Master-Detail), 'Email' (Email), 'Execution ID' (Auto Number), 'Gender' (Picklist), 'Last Modified By' (Lookup), 'Volunteer ID' (Auto Number), and 'Volunteer Name' (Text). The 'Date of Birth' field has a checkmark in the 'INDEXED' column.

Fields & Relationships 13 Items, Sorted by Field Label				
	FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD
	Address	Address_c	Long Text Area(32768)	
	Age	Age_c	Number(18, 0)	
	Available On	Available_On_c	Date	
	Contact Number	Contact_Number_c	Number(18, 0)	
	Created By	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	
	Execution ID	Execution_ID_c	Auto Number	
	Gender	Gender_c	Picklist	
	Last Modified By	LastModifiedById	Lookup(User)	
	Volunteer ID	Volunteer_ID_c	Auto Number	
	Volunteer Name	Name	Text(80)	✓

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 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}

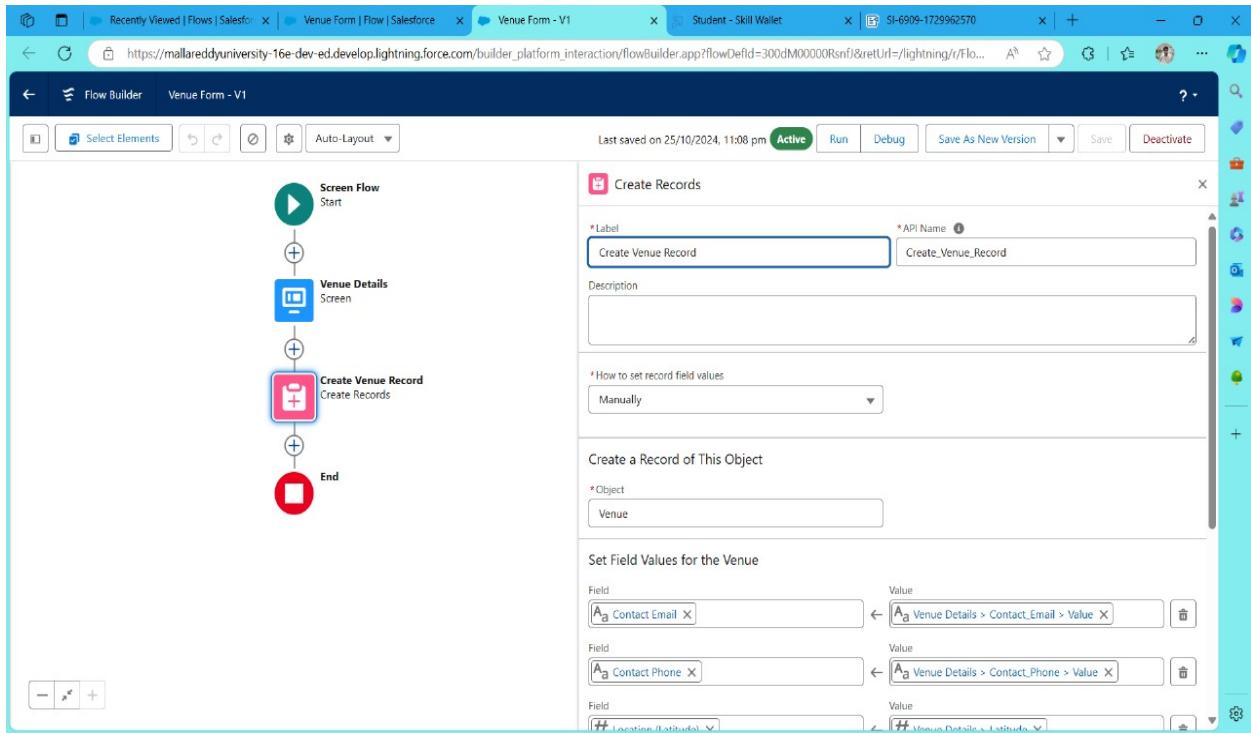
Field : Value = Name : {!Venue_Name}

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:

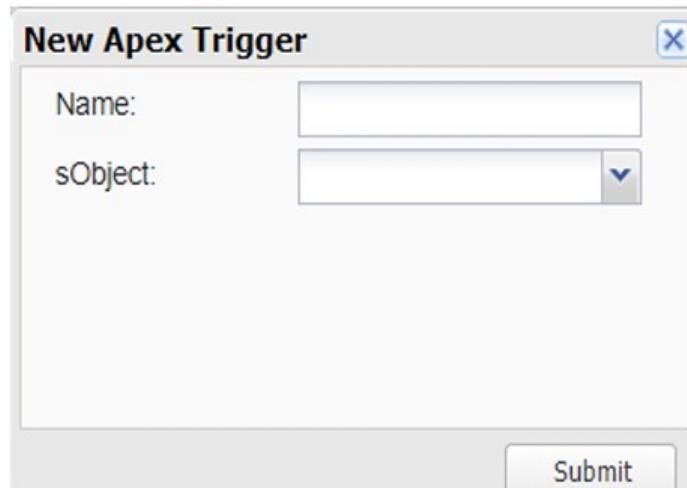
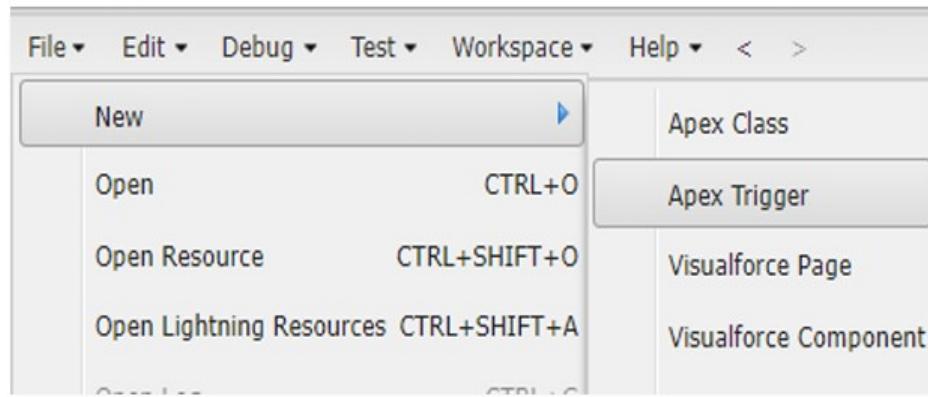
Flow Label : Venue Form

Flow API Name : Venue_Form

TASK 7: Trigger

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.



5. Enter Name : DropOffTrigger

sObject: Drop-Off Point

6. Click on submit.

Trigger 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;
}

```

```

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

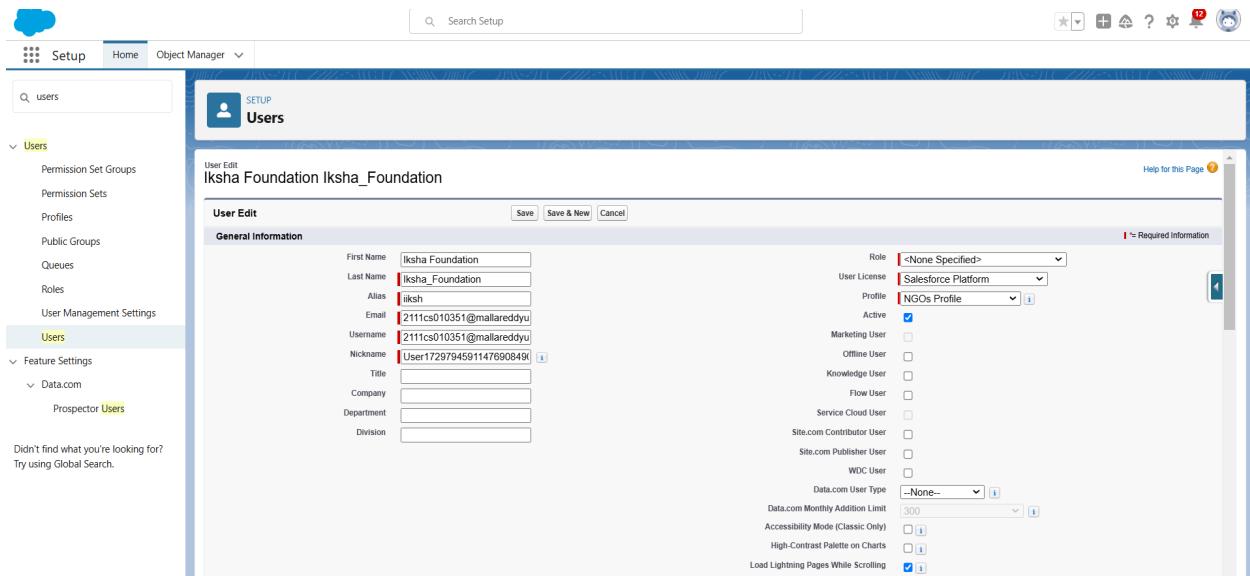
1. Go to setup page >> type Profiles in Quick Find bar >> click on Profiles >> click on 'S'
2. Click on Clone beside Standard Platform User.
3. Under Clone Profile: Profile Name : NGOs Profile
1. Then click on Save.

Action	Profile Name	User License	Custom
<input type="checkbox"/>	Edit Del ... NGOs Profile	Salesforce Platform	✓

TASK 9 : Creation of Users

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 (give the username different)
 Nickname : Auto Populated 38
 User License : Salesforce Platform
 Profile : NGOs Profile
 Active : Check



3. Click on Save

Creation of User2, User3

Create another Two Users by following steps in Activity - 1 with similar User License and Profile.

Give Different First Name, Last Name based on Different NGO's.

The screenshot shows the Salesforce Setup interface. The left sidebar is titled 'Setup' and includes sections for Home, Object Manager, and various configuration options like Permission Set Groups, Profiles, Public Groups, Queues, Roles, User Management Settings, and Feature Settings (with 'Users' selected). The main content area is titled 'SETUP Users' and displays a list of 'All Users'. The table headers are Action, Full Name, Alias, Username, Role, Active, and Profile. The table body lists several users, including 'Chatter_Expert', 'Iksha_Foundation_Iksha_Foundation', 'mahesh_mahesh', 'Pavan_Reddy', 'Prashu_Prashu', 'User_Integration', and 'User_Security'. The 'User_Integration' row is highlighted with a blue background. At the bottom of the table, there are buttons for New User, Reset Password(s), and Add Multiple Users.

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

Creation of Public Group 2

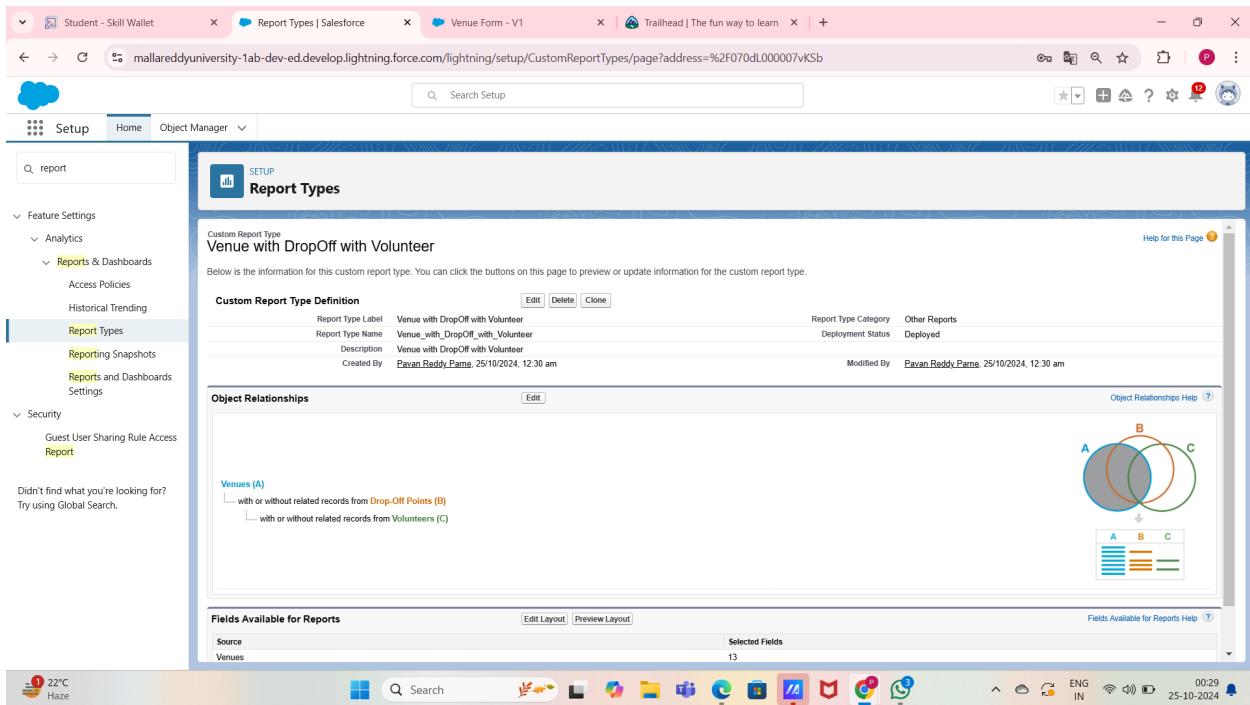
1. By Following Steps in Activity 1, Create other two Public Groups for other two users.
2. After Saving this would look like this.

Action	Label	Group Name	Created By	Created Date
Edit Del	Iksha	Iksha	Pame_Pavan Reddy	25/10/2024, 12:20 am
Edit Del	mahesh	mahesh	Pame_Pavan Reddy	25/10/2024, 12:22 am
Edit Del	prashu	prashu	Pame_Pavan Reddy	25/10/2024, 12:22 am

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

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. 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

Report: Venue with DropOff with Volunteer venue and Drop Off point

Total Records	Total Distance		
4	70.0000		
<input type="checkbox"/> Volunteer Name	Venue Name	Drop-Off Point Name	Distance
<input type="checkbox"/> - (2)	Manoj	manoj	30.0000
	Pavan Kumar	Pavan kumar	5.0000
Subtotal			
35.0000			
<input type="checkbox"/> Pavan Kumar (1)	Pranith	Hyderabad	10.0000
Subtotal			
10.0000			
<input type="checkbox"/> Varshini (1)	Pranith	karimnagar	25.0000
Subtotal			
25.0000			
Total (4)			
70.0000			

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.
 7. Now click on Save & Run.
 8. 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.

The screenshot shows the NourishNet application interface. At the top, there is a navigation bar with links for Home, Venues, Tasks, Drop-Off Points, Execution Details, Volunteers, Reports, and Dashboards. A search bar is located at the top center. On the right side of the header, there are several icons for account management and notifications. Below the header, a title bar displays 'Report: Tasks with Execution Details and Volunteers' and 'Volunteer Task'. The main content area is a table with the following data:

	Task: Task Name	Execution Detail: Execution Detail Name	Volunteer: Volunteer Name	Task: Owner Name	Rating	Date
<input type="checkbox"/> 1 (1)	FoodSupply	Sairam	Pavan Kumar	Pavan Reddy Pame	4	07/11/2024
Subtotal						
<input type="checkbox"/> 2 (1)	Distribute Leftover Food	Mahesh	Vanshi	Pavan Reddy Pame	4	26/10/2024
Subtotal						
Total (2)						

TASK 13:Dashboards

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)

The screenshot shows the NourishNet dashboard builder interface. A modal window titled "Add Widget" is open, displaying a report titled "venue and Drop Off point". The report table has columns: "Venue Name", "Drop-Off Point Name", and "Distance". The data is as follows:

Venue Name	Drop-Off Point Name	Distance
Manoj	manoj	30.0000
Pavan Kumar	Pavan kumar	5.0000
Pranith	karimnagar	25.0000
Pranith	Hyderabad	10.0000

Below the report, there is a chart titled "Volunteer Task" showing a single data series with a value of 1 across four categories. The Y-axis is labeled "Record Count" and ranges from 0 to 1. The X-axis categories are 1, 0.8, 0.6, 0.4, 0.2, and 0.

The "Add Widget" dialog also includes sections for "Report", "Display As" (with various chart and table icons), "Groups", and "Columns". The "Columns" section lists "Venue Name" and "Drop-Off Point Name". At the bottom of the dialog are "Cancel" and "Add" buttons.

Now click on save.

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)

The screenshot shows the NourishNet application interface with the 'Dashboards' tab selected. A modal window titled 'Add Widget' is open, allowing the creation of a new dashboard element. The 'Report' section is set to 'Volunteer Task'. Under 'Display As', a bar chart icon is selected. The 'X-axis' is labeled 'Volunteer: Volunteer ID' and shows two categories, both with a value of 1. The 'Y-axis' is labeled 'Record Count' with a scale from 0 to 1. The preview area shows the resulting bar chart with two bars at height 1.0. Buttons for 'Cancel' and 'Add' are at the bottom right of the dialog.

Now click on save.

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.

The screenshot shows the NourishNet application interface. At the top, there's a navigation bar with links for Home, Venues, Tasks, Drop-Off Points, Execution Details, Volunteers, Reports, and Dashboards. Below the navigation is a search bar and a toolbar with various icons. The main area displays three widgets:

- venue and Drop Off point**: A table with columns: Venue Name, Drop-Off Point Name, and Distance. The data is as follows:

Venue Name	Drop-Off Point Name	Distance
Manoj	manoj	30.0000
Pavan Kumar	Pavan kumar	5.0000
Pranith	karimagar	25.0000
Pranith	Hyderabad	10.0000
- Volunteer Task**: A bar chart titled "Volunteer Task" showing the count of records for two volunteer IDs. The Y-axis is "Record Count" from 0 to 1.0. The X-axis is "Volunteer: Volunteer ID" with values 1 and 2. Both bars reach a height of 1.0.
- A photograph of several volunteers in orange and yellow shirts serving food to people at an outdoor event under a tent.

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
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

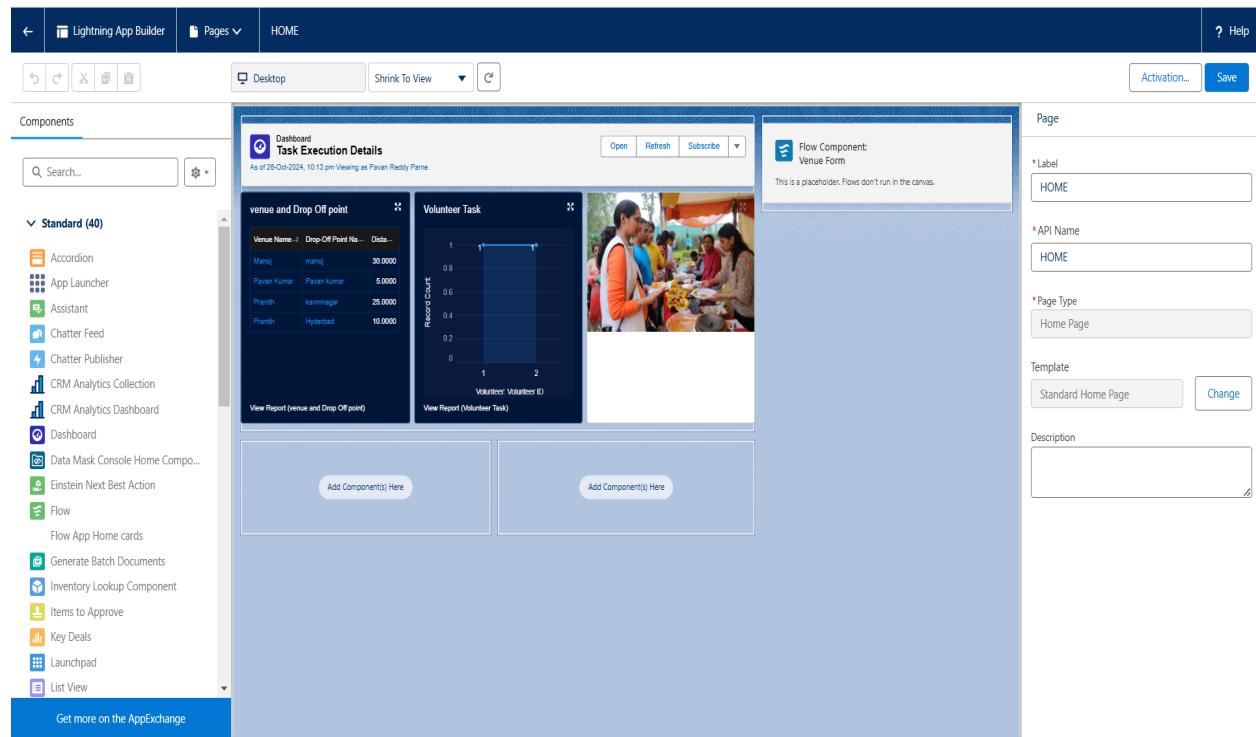
17. Click on Save.

Action	Criteria	Shared With	Access Level
Edit Del	(Drop-Off Point: Distance LESS THAN 15)	Group: Isha	Read Only
Edit Del	(Drop-Off Point: Distance GREATER THAN 30) AND (Drop-Off Point: Distance LESS OR EQUAL 50)	Group: mahesh	Read Only
Edit Del	(Drop-Off Point: Distance GREATER THAN 15) AND (Drop-Off Point: Distance LESS OR EQUAL 30)	Group: prashu	Read Only

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.

The screenshot shows the NourishNet application interface. At the top, there is a navigation bar with links for Home, Venues, Tasks, Drop-Off Points, Execution Details, Volunteers, Reports, and Dashboards. A search bar is located at the top right. Below the navigation bar, there is a header for "Task Execution Details" with a timestamp "As of 26-Oct-2024, 10:13 pm Viewing as Pavan Reddy Parne".

The main content area contains three cards:

- venue and Drop Off point:** A table showing the distance between venues and drop-off points. The data is as follows:

Venue Name	Drop-Off Point Name	Distance
Manoj	manoj	30.0000
Pavan Kumar	Pavan kumar	5.0000
Pranith	karimnagar	25.0000
Pranith	Hyderabad	10.0000

[View Report \(venue and Drop Off point\)](#)

- Volunteer Task:** A chart showing the record count for two volunteers. Both have a count of 1.

[View Report \(Volunteer Task\)](#)

To the right, there is a "Venue Form" section with fields for Venue Name, Email, Phone, Venue Location, Latitude, and Longitude. A "Next" button is at the bottom right of the form.

Conclusion

The **Food Donation Project** is a powerful initiative that bridges the gap between surplus food and communities in need, fostering both sustainability and compassion. By creating an organized and responsive system for collecting, managing, and distributing food donations, this project ensures that nutritious meals reach people facing food insecurity. It not only reduces waste but also brings communities together in a shared mission to end hunger and support vulnerable populations. As more individuals, businesses, and organizations join this effort, the project's impact continues to grow, driving meaningful, lasting change and setting a foundation for a more food-secure, resilient future.