

# Food Connect- To supply left over food to poor



**FOOD CONNECT**

WE DELIVER HAPPINESS

## Project Overview

**Food Connect** is a platform built on Salesforce that streamlines the process of gathering surplus food from donors—such as restaurants, events, and households—and delivering it to underserved communities. By utilizing Salesforce’s robust CRM features, the system effectively manages donor information, monitors food availability, and coordinates delivery logistics. It also automates key processes to ensure prompt communication and smooth supply chain operations.

The platform promotes sustainability by reducing food waste and supports social welfare by ensuring that excess food reaches those who need it most. Its scalable design allows for easy expansion to serve broader geographic areas and a growing network of donors and recipients.

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## 1. Introduction

Food Connect is built to address food waste while helping people in need. The project uses Salesforce as a backbone for its donor management, food inventory tracking, and delivery coordination. By incorporating the full power of Salesforce's CRM, automation, and analytics capabilities, this platform enables seamless collaboration between food donors, volunteers, and distribution networks

## 2. Project Objectives

- **Distribute leftover food** efficiently to charities and shelters.
- **Automate workflows** for notifications, pickups, and deliveries.
- **Track inventory and supply chain** in real-time.
- **Improve community outreach** and reporting.

## 3. Key Features

- **Food Pickup and Distribution Tracking:** Automate requests for food pickup and ensure delivery to shelters.
- **Inventory Management:** Monitor food availability in real-time, ensuring efficient allocation based on demand.
- **Reporting and Analytics:** Create reports and dashboards on food distribution, donor contributions, and recipients.
- **Mobile Access:** Allow volunteers and coordinators to access the platform on mobile devices using Salesforce Mobile.

## 4. Salesforce Developer Setup and Workflow

### a. 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:

**Build enterprise-quality apps fast to bring your ideas to life**

- Build apps fast with drag and drop tools
- Customize your data model with clicks
- Go further with Apex code
- Integrate with anything using powerful APIs
- Stay protected with enterprise-grade security
- Customize UI with clicks or any leading edge web framework

**Sign up for your Salesforce Developer Edition**  
A full-featured copy of the Platform, for free

Complete the form to start your free trial. Our team will be in touch to help you make the most of your trial.

First Name\*  
Your first name

Last Name\*  
Your last name

Email\*  
Your email address

Role\*  
Your job role

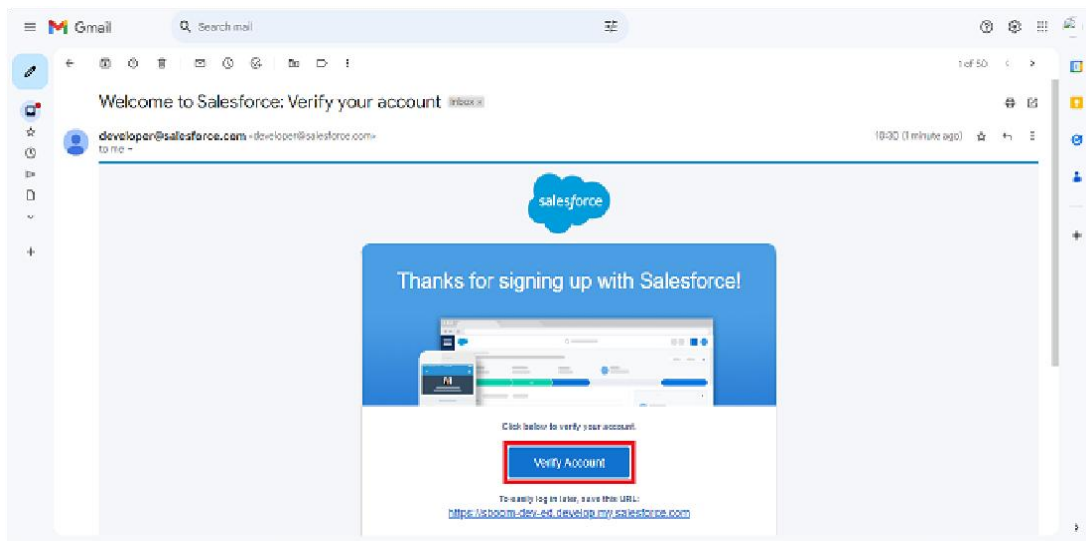
Company\*  
Company Name

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

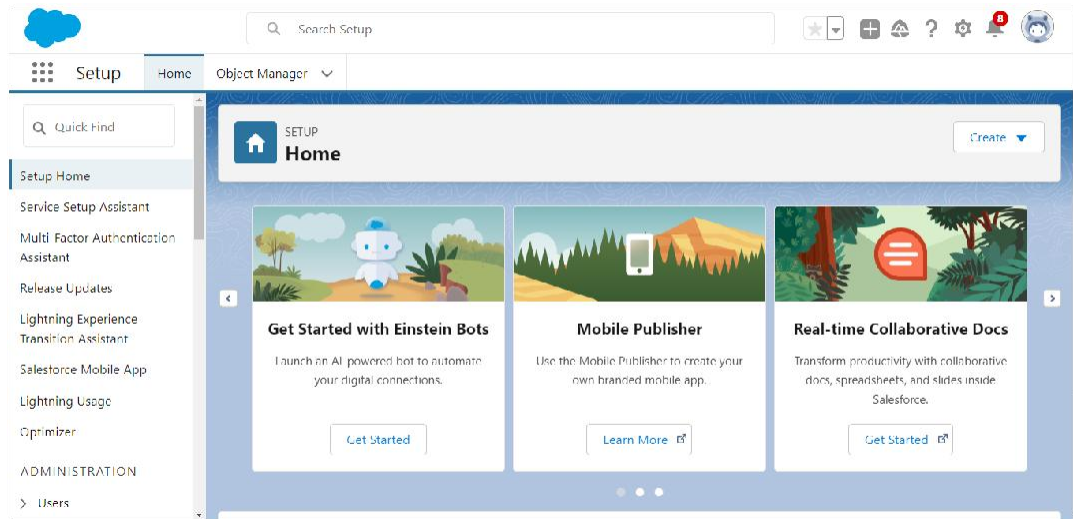
## 5. System Architecture

### b. Account Activation

1. 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 5-10mins.

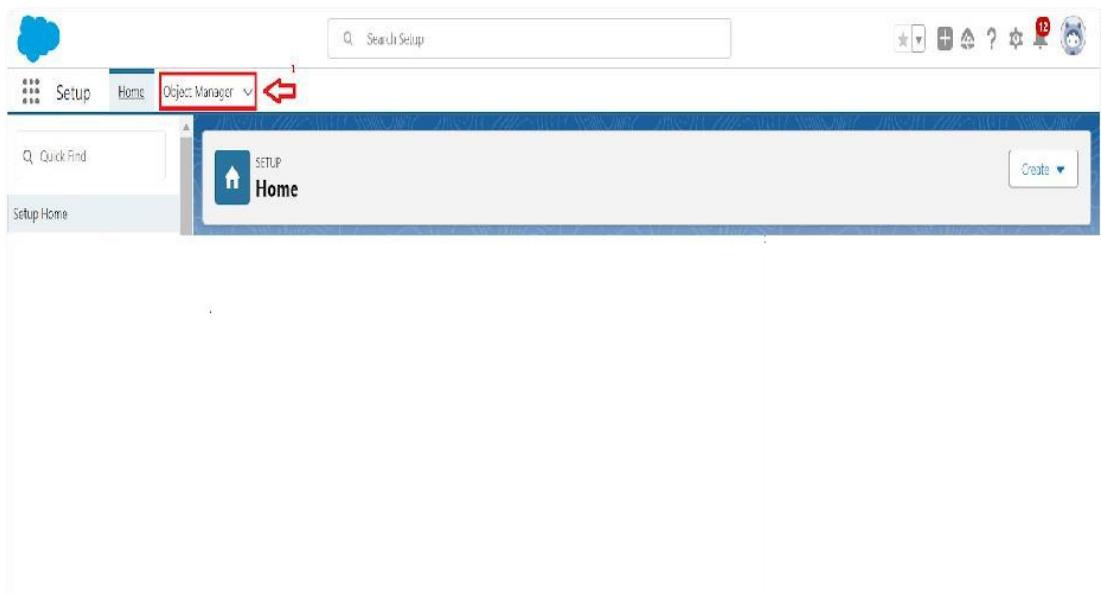
A screenshot of the 'Change Your Password' form. The form is titled 'Change Your Password' and asks to 'Enter a new password for lead@sb.com'. It lists requirements: '8 characters', '1 letter', and '1 number', all marked with green checkmarks. The form contains four input fields: 'New Password' (with a 'Good' status), 'Confirm New Password' (with a 'Match' status), 'Security Question' (a dropdown menu showing 'In what city were you born?'), and 'Answer' (containing 'asdfghikl'). A blue 'Change Password' button is at the bottom, and the entire form area is enclosed in a red rectangular border.

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



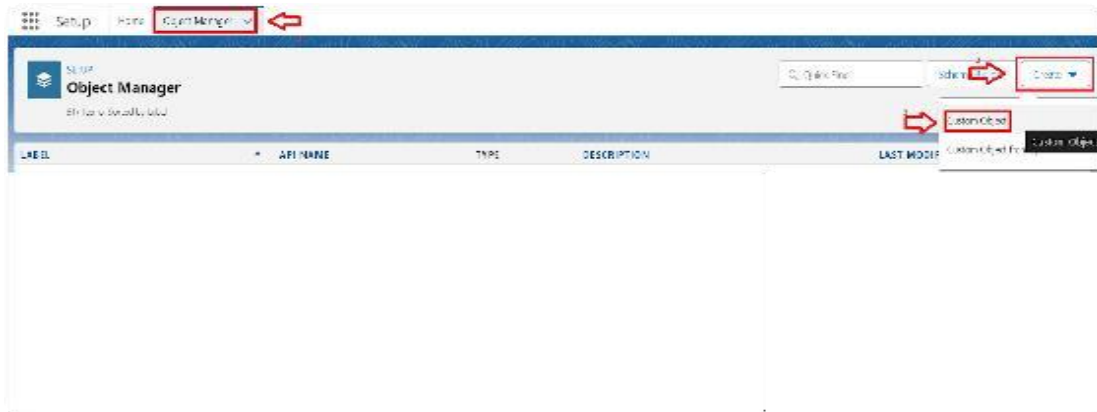
## b. Creating Objects

To Navigate to Setup page:



To create an object:

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



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

Setup New Custom Object

Custom Object Definition Edit Save Save & Next Cancel

Custom Object Information

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

Label  Example: Account

Plural Label  Example: Accounts

Share with external account ☐

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

Object Name  Example: Account

Description

Contact Sensitive Help Setting ☒ Use the standard Salesforce.com Help & Training window ☐ Create a new custom help page for this object page

Custom Name

Enter Record Name Label and Format

The Record Name appears in page layouts, key lists, records. 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  Example: Account Name

Field Type

Optional Features

☒ Allow Reports

☐ Allow Search

☐ Track Field History



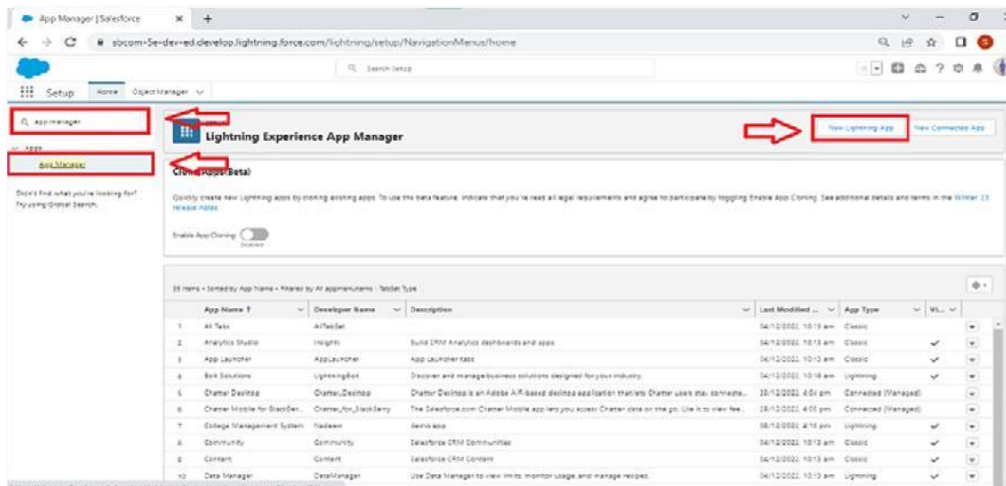


1. Select Object (Venue) >> Select the tab style >> Next (Add to profiles page) keep it as default >> Next (Add to Custom App) uncheck the include tab.
2. Make sure that the Append tab to users' existing personal customizations is checked.
3. Click save

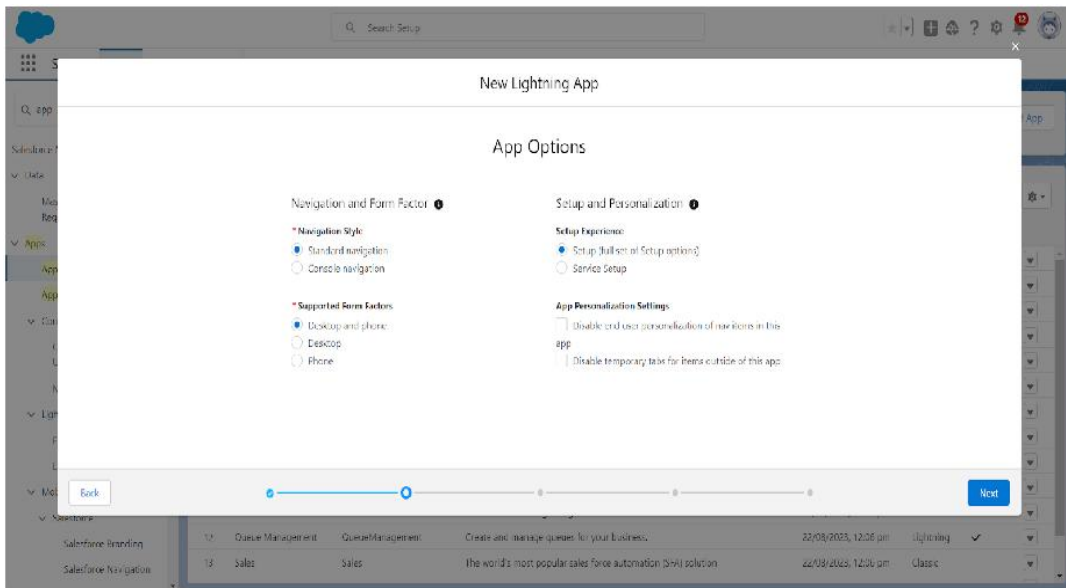
## f. Create a Lightning App

To create a lightning app page:

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



2. Fill the app name in app details and branding as follow App  
Name: FoodConnect  
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



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

4. To Add Navigation Items:

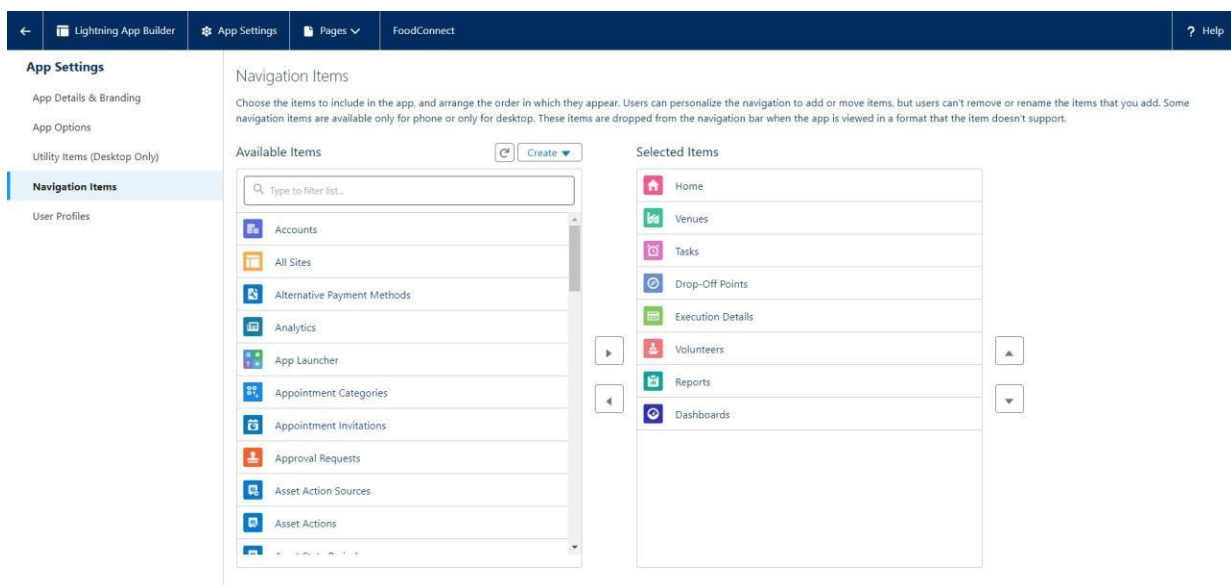
Search for the item in the (Home, Venue, Drop-Off Point, Task, Volunteer, Execution Details, Reports) from the search bar and move it using the arrow button >> Next

>> Next.

5. To Add User Profiles:

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

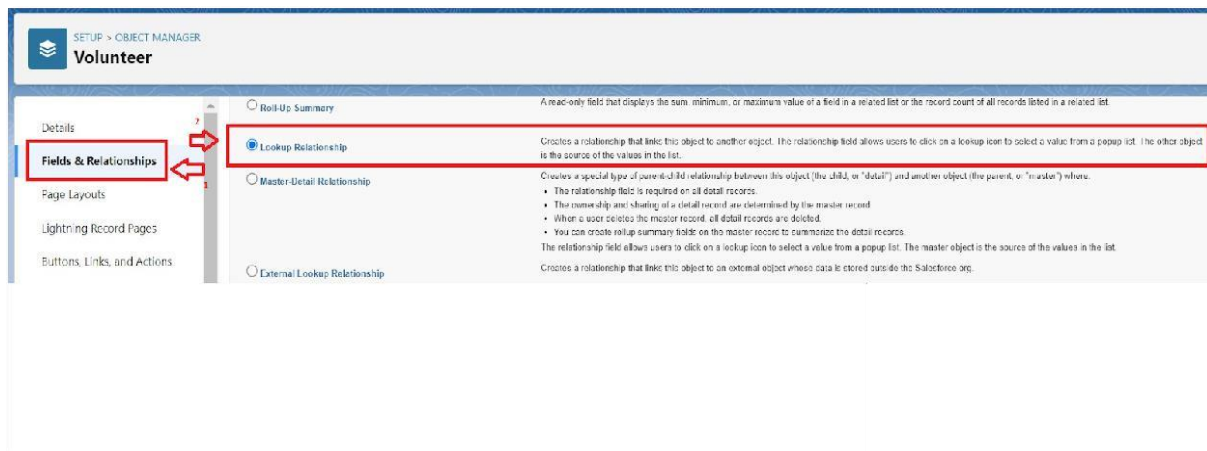
**Here I am adding my output of creating lighting app:**



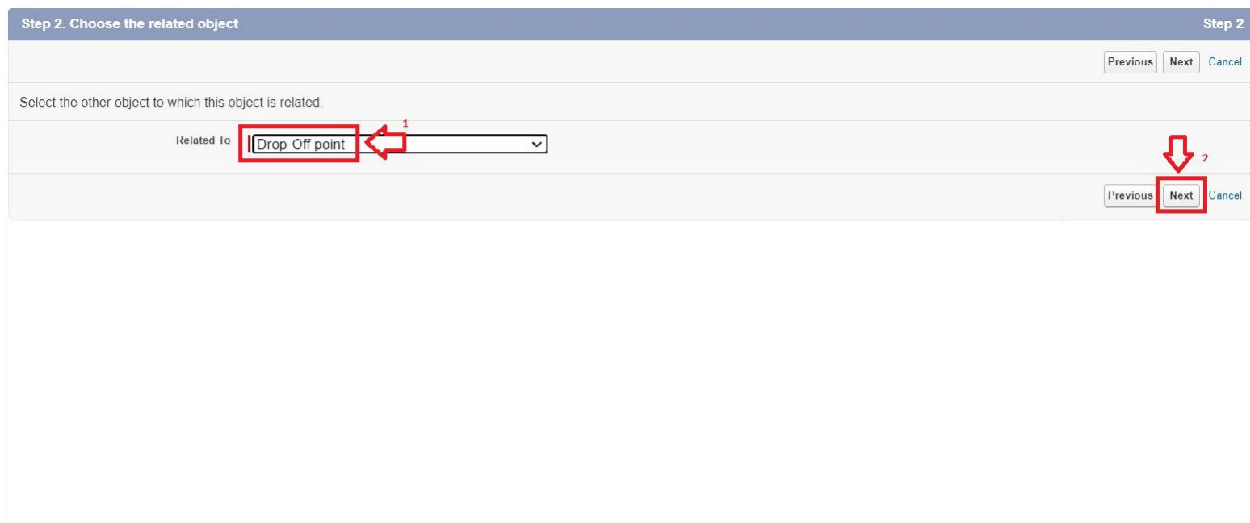
## g. Creation of Relationship fields in objects

### 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.

just like that I crated all the relationship as the same way it little bit different in the Moden relationship and the lookup relationship fields.

## 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.

Setup > OBJECT MANAGER

Venue

Details

Fields & Relationships

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Validation Rules

Conditional Field Formatting

Custom Field Definition Edit

Change Field Type Save Cancel

Field Information

Field Label Contact Email

Field Name Contact\_Email

Description

Help Text

Data Owner User

Field Usage --None--

Data Sensitivity Level --None--

Compliance Categorization

Available

PII

HIPAA

GDPR

PCI

Chosen

General Options

Required ☒ Always require a value in this field in order to save a record

Unique ☐ Do not allow duplicate values

External ID ☐ Set this field as the unique record identifier from an external system

Default Value

Show Formula Editor

Use formula syntax: Enclose text and proper value API names in double quotes (" "), include numbers without quotes. Use formulas as described in the documentation and express any calculations in the standard format: formula + 1, 2, 3, to reference a field from a Custom Metadata type record use: \$CustomMetadata.Type\_\_md.RecordId/Name/Field\_\_c

Change Field Type Save Cancel

To create contact phone in venue 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.

The screenshot shows the Salesforce Setup interface for creating a custom field. The breadcrumb trail is 'Setup > OBJECT MANAGER > Venue'. The left sidebar shows the 'Fields & Relationships' section. The main content area is titled 'Edit Venue Custom Field' and 'Contact Phone'. The 'Field Information' section includes fields for 'Field Label' (Contact Phone), 'Field Name' (Contact\_Phone), 'Description', 'Help Text', 'Data Owner' (User), 'Field Usage' (None), and 'Data Sensitivity Level' (None). The 'Compliance Categorization' section shows 'Available' categories (PII, HIPAA, GDPR, PCI) and 'Chosen' categories. The 'General Options' section has a 'Required' checkbox checked and a 'Default Value' field. The 'Show Formula Editor' button is visible.

To create location in 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 “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.

Setup > OBJECT MANAGER

**Venue**

Details

**Fields & Relationships**

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Conditional Field Formatting

Edit Venue Custom Field

**Location**

Help for this Page

Custom Field Definition Edit

Field Information

Field Label: Location

Field Name: Location

Description: Enter the Geolocation of your Venue

Help Text:

Data Owner: User

Field Usage: --None--

Data Sensitivity Level: --None--

Compliance Categorization

Available: PII, HIPAA, GDPR, PCI

Chosen:

General Options

Required: ☐ Always require a value in this field in order to save a record

Geolocation Options

Decimal Places: 4

Save Cancel

To create Venue Location 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.

Setup > OBJECT MANAGER

**Venue**

Details

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Conditional Field Formatting

Edit Venue Custom Field

**Venue Location**

Help for this Page

Custom Field Definition Edit

Field Information

Field Label: Venue Location

Field Name: Venue\_Location

Description: Enter the Geolocation of your Venue

Help Text:

Data Owner: User

Field Usage: --None--

Data Sensitivity Level: --None--

Compliance Categorization

Available: PII, HIPAA, GDPR, PCI

Chosen:

General Options

Default Value: Show Formula Editor

Long Text Area Options

Visible Lines: 3

Length: 32,768

Save Cancel

## 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:

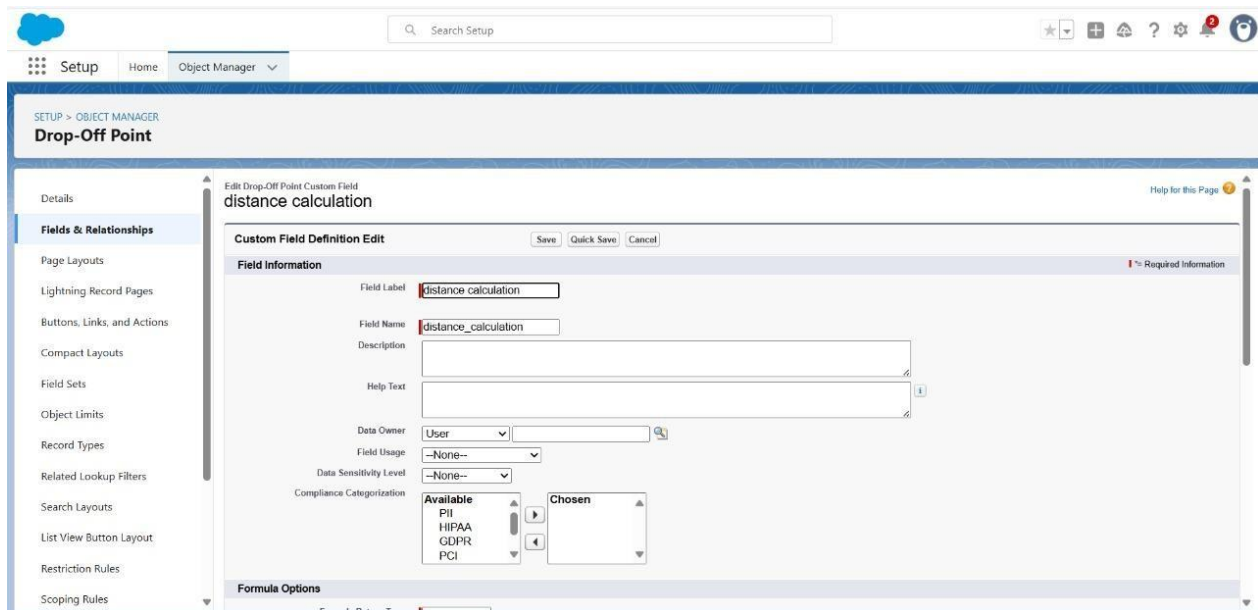
- Field Label: Location 2
- Field Name: gets auto generated
- Description: Enter the Geolocation of the Drop off Point
- Geolocation Options: select Decimal
- Decimal Places: 4
- Click on Next >> Next >> Save and new.

The screenshot shows the Salesforce Setup interface for the 'Drop-Off Point' object. The 'Custom Field Definition Edit' page is displayed, showing the 'Field Information' section. The field label is 'Location 2', the field name is 'Location\_2', and the description is 'Enter the Geolocation of the Drop off Point'. The data type is 'Geolocation'. The 'Data Owner' is set to 'User'. The 'Field Usage' is set to 'None'. The 'Data Sensitivity Level' is set to 'None'. The 'Compliance Categorization' section shows 'Available' categories: PII, HIPAA, GDPR, PCI. The 'General Options' section shows the 'Required' checkbox is checked, and the 'Always require a value in this field in order to save a record' checkbox is unchecked.

To create distance calculation in Drop-Off point 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.



Setup > OBJECT MANAGER

### Drop-Off Point

Details

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Scoping Rules

Edit Drop-Off Point Custom Field

#### distance calculation

Custom Field Definition Edit

Save Quick Save Cancel

**Field Information**

Field Label: distance calculation

Field Name: distance\_calculation

Description:

Help Text:

Data Owner: User

Field Usage: --None--

Data Sensitivity Level: --None--

Compliance Categorization:

Available: PII, HIPAA, GDPR, PCI

Chosen:

**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 State in Drop-Off point 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 “Picklist” and Click on Next



4. 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 Chhattis-  
garh Goa  
Gujarat Haryana  
Himachal Pradesh  
Jharkhand Karnataka  
Kerala Maharash-  
tra Madhya Pra-  
desh Manipur  
Meghalaya Mizo-  
ram Nagaland  
Odisha  
Punjab  
Rajasthan  
Sikkim  
Tamil Nadu  
Tripura Tel-  
angana  
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) Lak-  
shadweep (UT)  
Puducherry (UT)

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

Setup > OBJECT MANAGER

### Drop-Off Point

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Help for this Page

Custom Field Definition Edit

Change Field Type Promote to Global Value Set Save Cancel

**Field Information** Required Information

Field Label

Field Name

Description

Help Text

Data Owner

Field Usage

Data Sensitivity Level

Compliance Categorization

Available: PII, HIPAA, GDPR, PCI

Chosen:

**General Options**

Required ☒ Always require a value in this field in order to save a record

Default Value

Use formula editor: Enclose text and picklist values in double quotes (" "). Include numbers without quotes. Use formulas as described in the standard format: {Picklist} + 1. To reference a field from a Custom Metadata type record use: {CustomMetadataType\_\_mdt.RecordName}Field\_\_c.

**Picklist Options**

☒ Restrict picklist to the values defined in the value set

Change Field Type Promote to Global Value Set Save Cancel

To create Distance in Drop-Off point 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 “Number” and Click on Next
4. 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.

Setup > OBJECT MANAGER

### Drop-Off Point

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Change Field Type Save Cancel

**Field Information** Required Information

Field Label

Field Name

Description

Help Text

Data Owner

Field Usage

Data Sensitivity Level

Compliance Categorization

Available: PII, HIPAA, GDPR, PCI

Chosen:

**General Options**

Required ☒ Always require a value in this field in order to save a record

Unique ☐ Do not allow duplicate values

External ID ☐ Set this field as the unique record identifier from an external system

AI Prediction ☐ Use this field to store AI prediction scores

Default Value

Use formula editor: Enclose text and picklist values in double quotes (" "). Include numbers without quotes. Use formulas as described in the standard format: {Picklist} + 1. To reference a field from a Custom Metadata type record use: {CustomMetadataType\_\_mdt.RecordName}Field\_\_c.

**Number Options**

Length

Decimal Places

# 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.

The screenshot shows the Salesforce Setup interface for creating a custom field. The page is titled "Task ID" and is part of the "Object Manager" setup. The "Field Information" section includes fields for "Field Label" (Task ID), "Field Name" (Task\_ID), "Description", "Help Text", "Data Owner" (User), "Field Usage" (None), and "Data Sensitivity Level" (None). The "Data Type" is set to "Auto Number". The "Auto Number Options" section shows the "Auto Number Display Format" as "TASK-{0}". The "General Options" section has a checkbox for "Set this field as the unique record identifier from an external system" which is unchecked. The "Compliance Categorization" section shows a list of categories: PII, HIPAA, GDPR, PCI, with PII and HIPAA selected. The page has a sidebar with navigation links like "Details", "Fields & Relationships", "Page Layouts", etc. and a top navigation bar with "Setup", "Home", and "Object Manager".

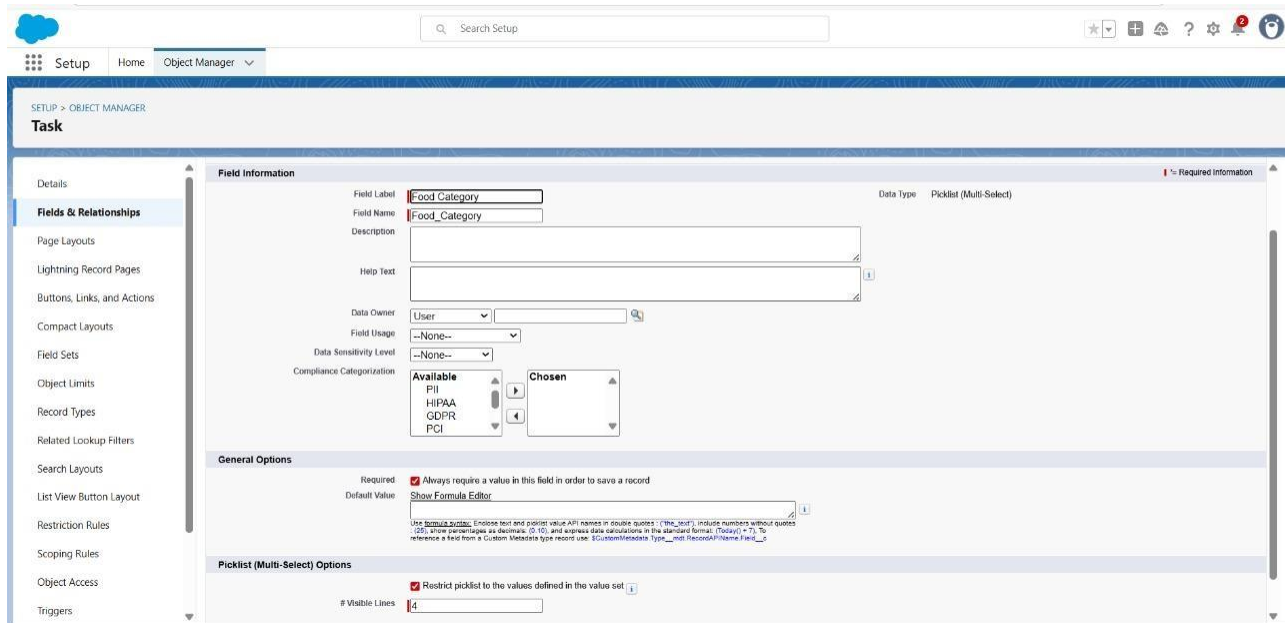
To create Date in Task object:

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.

The screenshot shows the Salesforce Setup interface. At the top, there's a search bar with 'Search Setup' and navigation tabs for Setup, Home, and Object Manager. The left sidebar lists various setup options under 'Details' and 'Fields & Relationships'. The main content area is titled 'Custom Field Definition Edit' and shows the configuration for a field named 'Date'. The 'Field Information' section includes fields for Field Label, Field Name, Description, Help Text, Data Owner, Field Usage, Data Sensitivity Level, and Compliance Categorization. The 'General Options' section includes a 'Required' checkbox (checked) and a 'Default Value' field with a formula editor.

To create Food Category fields in an object:

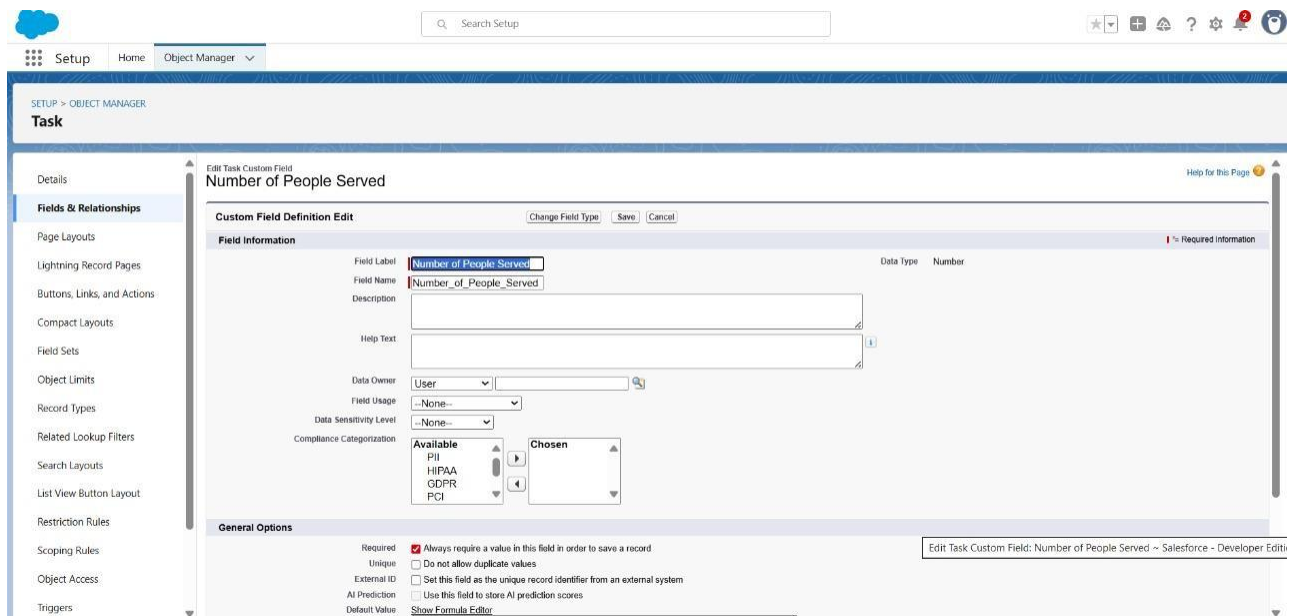
1. Go to setup>> click on Object Manager>> type object name (Task) in search bar>> click on the object.
2. Now click on “Fields & Relationships”>> New
3. Select Data type as a “Picklist (Multi-Select)” and Click on Next
4. Fill the Above as following:
  - Field Label: Food Category
  - Field Name: Food\_Category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



The screenshot shows the Salesforce Setup interface, specifically the Object Manager for the 'Task' object. The left sidebar contains a navigation menu with options like Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, List View Button Layout, Restriction Rules, Scoping Rules, Object Access, and Triggers. The main content area is titled 'Task' and shows the configuration for a new field. The 'Field Information' section includes fields for Field Label ('Food Category'), Field Name ('Food\_Category'), Description, Help Text, Data Owner (User), Field Usage (None), Data Sensitivity Level (None), and Compliance Categorization (Available: PII, HIPAA, GDPR, PCI; Chosen: ). The 'General Options' section has a 'Required' checkbox checked with the label 'Always require a value in this field in order to save a record' and a 'Default Value' field with a formula editor. The 'Picklist (Multi-Select) Options' section has a 'Restrict picklist to the values defined in the value set' checkbox checked and a '# Visible Lines' field set to 4.

To create Number of People Served in Task 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 “Number” and Click on Next
4. 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.



The screenshot shows the Salesforce Setup interface, specifically the Object Manager for the 'Task' object, with the 'Number of People Served' field configuration. The left sidebar is the same as the previous screenshot. The main content area is titled 'Task' and shows the configuration for a new field. The 'Field Information' section includes fields for Field Label ('Number of People Served'), Field Name ('Number\_of\_People\_Served'), Description, Help Text, Data Owner (User), Field Usage (None), Data Sensitivity Level (None), and Compliance Categorization (Available: PII, HIPAA, GDPR, PCI; Chosen: ). The 'General Options' section has a 'Required' checkbox checked with the label 'Always require a value in this field in order to save a record', and other options like 'Unique', 'External ID', 'AI Prediction', and 'Default Value' are unchecked. A 'Show Formula Editor' link is present at the bottom.

To create Name of the Person in Task 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 “Text” and Click on Next
4. 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 Phone fields in Task 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 “Phone” and Click on Next
4. Fill the Above as following:
  - Field Label : Phone
  - Field Name : Phone
  - Click on Next >> Next>> Save and new.

Setup > OBJECT MANAGER

**Task**

Details

**Fields & Relationships**

Page Layouts

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Buttons, Links, and Actions

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Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

List View Button Layout

Restriction Rules

Scoping Rules

Object Access

Triggers

Edit Task Custom Field

**Phone**

Help for this Page

**Custom Field Definition Edit**

Change Field Type Save Cancel

**Field Information**

Field Label Phone

Field Name Phone

Description

Help Text

Data Owner User

Field Usage --None--

Data Sensitivity Level --None--

Compliance Categorization

**Available**

- PII
- HIPAA
- GDPR
- PCI

**Chosen**

**General Options**

Required ☒ Always require a value in this field in order to save a record

Default Value Show Formula Editor

Use formula syntax: Enclose text and picklist value API names in double quotes ("the\_text"), include numbers without quotes (25), show percentages as decimals (0.10), and express date calculations in the standard format: {Today() + 7}. To reference a field from a Custom Metadata type record use: \$CustomMetadata.Type\_\_mdt.RecordAPIName.Field\_\_c

To create Rating in Task object:

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

- Now click on "Fields & Relationships" >> New
- Select Data type as a "Pick List" and Click on Next
- 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.

**Custom Field Definition Edit**

**Field Information**

Field Label: Rating  
 Field Name: Rating  
 Description:   
 Help Text:   
 Data Owner: User  
 Field Usage: --None--  
 Data Sensitivity Level: --None--  
 Compliance Categorization: Available (PII, HIPAA, GDPR, PCI) / Chosen

**General Options**

Required: ☐ Always require a value in this field in order to save a record  
 Default Value: Show Formula Editor  
 Use formula syntax: (Enclose text and picklist value API names in double quotes - ("the\_text"). Include numbers without quotes - (25). Show percentages as decimals - (0.10), and express date calculations in the standard format: (Today) + 7. To reference a field from a Custom Metadata type record use: \$CustomMetadata.Type\_\_c.recordAPIName.Field\_\_c

**Picklist Options**

☒ Restrict picklist to the values defined in the value set

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 “Long Text Area” and Click on Next
4. Fill the Above as following:
  - Field Label : Feedback
  - Field Name : Feedback
  - Click on Next >> Next >> Save and new.

**Custom Field Definition Edit**

**Field Information**

Field Label: Feedback  
 Field Name: Feedback  
 Description:   
 Help Text:   
 Data Owner: User  
 Field Usage: --None--  
 Data Sensitivity Level: --None--  
 Compliance Categorization: Available (PII, HIPAA, GDPR, PCI) / Chosen

**General Options**

Default Value: Show Formula Editor  
 Use formula syntax: (Enclose text and picklist value API names in double quotes - ("the\_text"). Include numbers without quotes - (25). Show percentages as decimals - (0.10), and express date calculations in the standard format: (Today) + 7. To reference a field from a Custom Metadata type record use: \$CustomMetadata.Type\_\_c.recordAPIName.Field\_\_c

**Long Text Area Options**

# Visible Lines: 3  
 Length: 32,768 (Max 131,072)



# Creation of fields for the Volunteer object

To create Volunteer ID in 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.

The screenshot shows the Salesforce Setup interface for creating a custom field for the Volunteer object. The page title is "Edit Volunteer Custom Field Volunteer ID". The "Field Information" section includes fields for Field Label (Volunteer ID), Field Name (Volunteer\_ID), Description, and Help Text. The Data Type is set to Auto Number. The Data Owner is set to User. The Field Usage is set to None. The Data Sensitivity Level is set to None. The Compliance Categorization section shows a list of categories (PII, HIPAA, GDPR, PCI) with a "Chosen" list. The General Options section includes a checkbox for "External ID" which is checked, and a note "Set this field as the unique record identifier from an external system". The Auto Number Options section includes a field for "Auto Number Display Format" set to ID-0.

To create Gender in 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 “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.

The screenshot shows the Salesforce Setup interface. The top navigation bar includes 'Setup', 'Home', and 'Object Manager'. The left sidebar lists various setup options, with 'Fields & Relationships' selected. The main content area is titled 'Edit Volunteer Custom Field Gender' and contains the 'Custom Field Definition Edit' form. The form has two tabs: 'Field Information' and 'General Options'. The 'Field Information' tab is active, showing fields for 'Field Label' (Gender), 'Field Name' (Gender), 'Description', 'Help Text', 'Data Owner' (User), 'Field Usage' (None), 'Data Sensitivity Level' (None), and 'Compliance Categorization' (Available, PII, HIPAA, GDPR, PCI). The 'General Options' tab shows the 'Required' checkbox checked with the label 'Always require a value in this field in order to save a record' and a 'Default Value' field with a formula editor.

To create Available On in 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 “Date” and Click on Next
4. 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.

Setup > OBJECT MANAGER  
**Volunteer**

Details  
**Fields & Relationships**  
Page Layouts  
Lightning Record Pages  
Buttons, Links, and Actions  
Compact Layouts  
Field Sets  
Object Limits  
Record Types  
Related Lookup Filters  
Search Layouts  
List View Button Layout  
Restriction Rules  
Scoping Rules  
Object Access  
Triggers

Edit Volunteer Custom Field  
**Available On**

Custom Field Definition Edit

Field Information

Field Label: Available On  
Field Name: Available\_On  
Description:  
Help Text:  
Data Owner: User  
Field Usage: --None--  
Data Sensitivity Level: --None--  
Compliance Categorization: Available (PII, HIPAA, GDPR, PCI)

General Options

Required: ☒ Always require a value in this field in order to save a record  
Default Value: Show Formula Editor

To create Age in 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 “Number” and Click on Next
4. Fill the Above as following:
  - Field Label : Age
  - Field Name : Age
  - Click on required check box
  - Click on Next >> Next>> Save and new.

Setup > OBJECT MANAGER  
**Volunteer**

Details  
**Fields & Relationships**  
Page Layouts  
Lightning Record Pages  
Buttons, Links, and Actions  
Compact Layouts  
Field Sets  
Object Limits  
Record Types  
Related Lookup Filters  
Search Layouts  
List View Button Layout  
Restriction Rules  
Scoping Rules  
Object Access  
Triggers

Edit Volunteer Custom Field  
**Age**

Field Information

Field Label: Age  
Field Name: Age  
Description:  
Help Text:  
Data Owner: User  
Field Usage: --None--  
Data Sensitivity Level: --None--  
Compliance Categorization: Available (PII, HIPAA, GDPR, PCI)

General Options

Required: ☒ Always require a value in this field in order to save a record  
Unique: ☐ Do not allow duplicate values  
External ID: ☐ Set this field as the unique record identifier from an external system  
AI Prediction: ☐ Use this field to store AI prediction scores  
Default Value: Show Formula Editor

Number Options

Length: 18

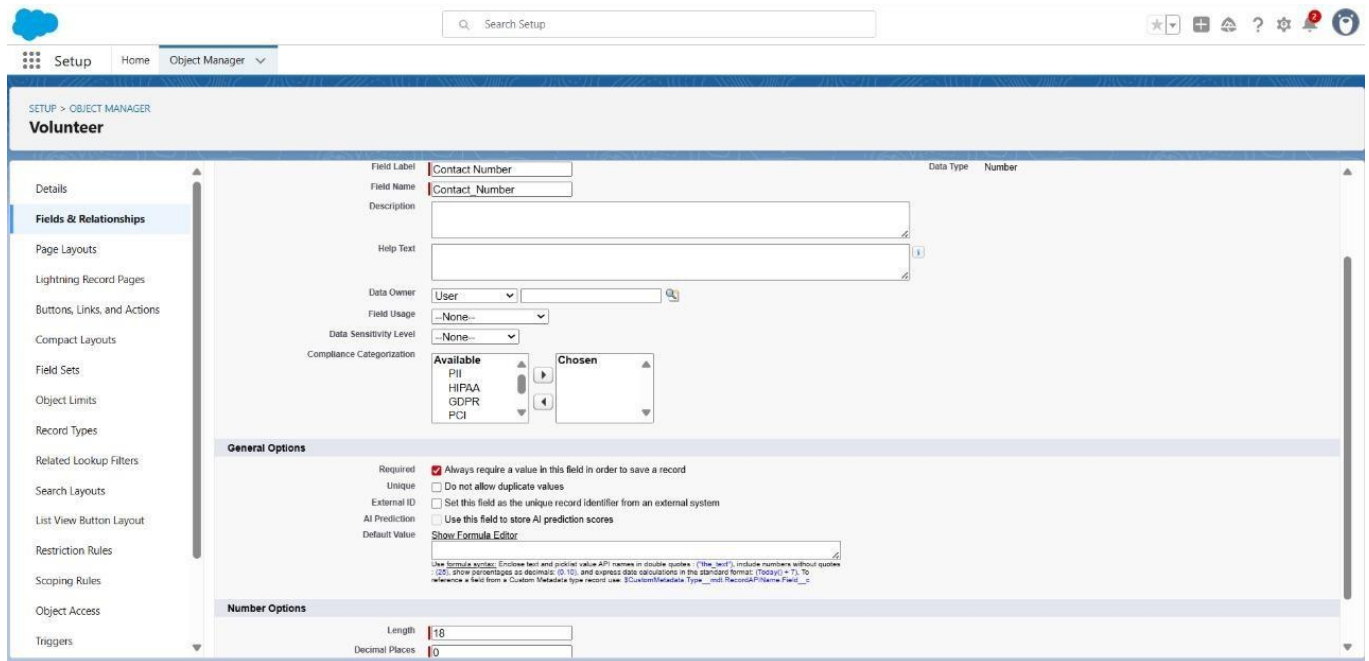
To create Email in Volunteer object:

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 “Email” and Click on Next
4. Fill the Above as following:
  - Field Label : Email
  - Field Name : Email
  - Click on required check box
  - Click on Next>> Next >> Save and new.

The screenshot shows the Salesforce Setup interface. At the top, there's a navigation bar with 'Setup', 'Home', and 'Object Manager'. Below this, the 'Volunteer' object is selected. The left sidebar shows a list of setup options, with 'Fields & Relationships' highlighted. The main content area is titled 'Edit Volunteer Custom Field' and 'Email'. It contains a 'Custom Field Definition Edit' form with the following fields: 'Field Label' (Email), 'Field Name' (Email), 'Description' (empty), 'Help Text' (empty), 'Data Owner' (User), 'Field Usage' (None), 'Data Sensitivity Level' (None), and 'Compliance Categorization' (Available: PII, HIPAA, GDPR, PCI; Chosen: empty). Below the form, there are 'General Options' including 'Required' (checked), 'Unique' (unchecked), 'External ID' (unchecked), and 'Default Value' (empty). A 'Show Formula Editor' button is also present.

To create Contact Number in 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 “Number” and Click on Next
4. 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.



The screenshot shows the Salesforce Setup interface for configuring a custom field named 'Contact Number' for the 'Volunteer' object. The left sidebar contains a navigation menu with options like Details, Fields & Relationships, Page Layouts, and Triggers. The main area is divided into sections: Field Information, Compliance Categorization, General Options, and Number Options.

**Field Information:**

- Field Label: Contact Number
- Field Name: Contact\_Number
- Description: (empty)
- Help Text: (empty)
- Data Owner: User
- Field Usage: --None--
- Data Sensitivity Level: --None--
- Compliance Categorization: Available (PII, HIPAA, GDPR, PCI) and Chosen (empty)

**General Options:**

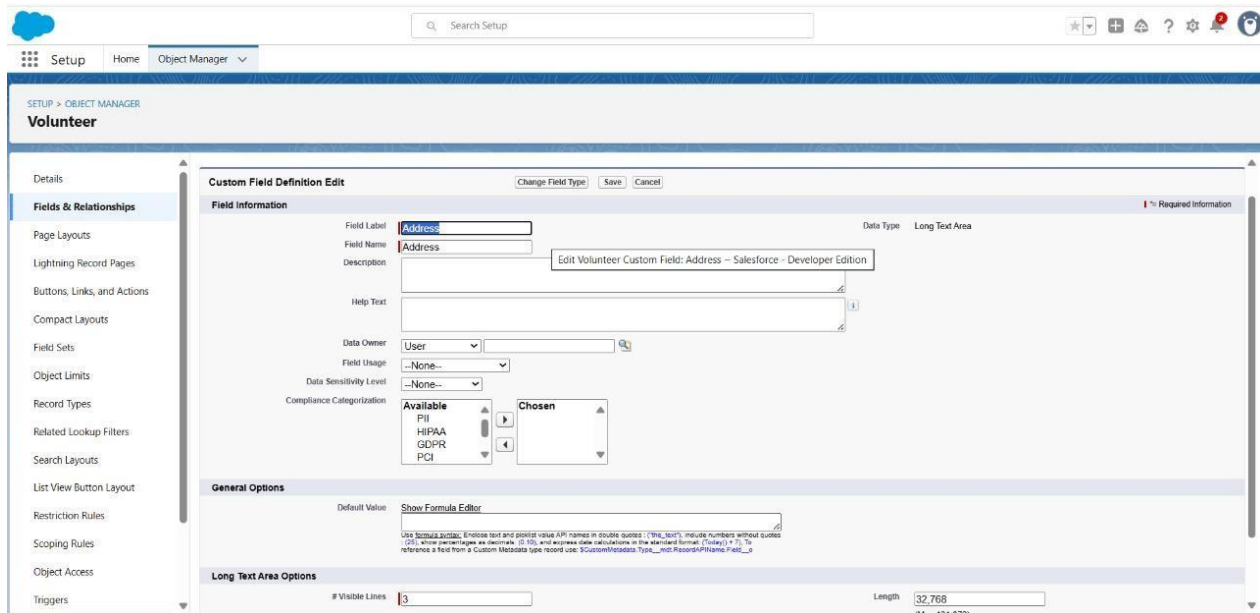
- Required: ☒ Always require a value in this field in order to save a record
- Unique: ☐ Do not allow duplicate values
- External ID: ☐ Set this field as the unique record identifier from an external system
- AI Prediction: ☐ Use this field to store AI prediction scores
- Default Value: Show Formula Editor

**Number Options:**

- Length: 18
- Decimal Places: 0

To create Address in 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 “Text Area (Long)” and Click on Next
4. Fill the Above as following:
  - Field Label : Address
  - Field Name : Address
  - Click on Next >> Next >> Save and new.



The screenshot shows the 'Custom Field Definition Edit' page for the 'Address' field in the 'Volunteer' object. The left sidebar is the same as the previous screenshot. The main area is divided into sections: Field Information, Compliance Categorization, General Options, and Long Text Area Options.

**Field Information:**

- Field Label: Address
- Field Name: Address
- Description: Edit Volunteer Custom Field: Address - Salesforce - Developer Edition
- Help Text: (empty)
- Data Owner: User
- Field Usage: --None--
- Data Sensitivity Level: --None--
- Compliance Categorization: Available (PII, HIPAA, GDPR, PCI) and Chosen (empty)

**General Options:**

- Default Value: Show Formula Editor

**Long Text Area Options:**

- # Visible Lines: 3
- Length: 32768

To create Date of Birth in 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 “Date” and Click on Next
4. 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 Setup interface for the 'Volunteer' object. The left sidebar contains a navigation menu with options like Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, List View Button Layout, Restriction Rules, Scoping Rules, Object Access, and Triggers. The main content area is titled 'Edit Volunteer Custom Field: Date of Birth' and includes a 'Custom Field Definition Edit' section. This section has tabs for 'Field Information' and 'General Options'. Under 'Field Information', fields are being configured: Field Label is 'Date of Birth', Field Name is 'Date\_of\_Birth', and Data Type is 'Date'. There are also fields for Description, Help Text, Data Owner, Field Usage, Data Sensitivity Level, and Compliance Categorization. A table shows 'Available' categories (PII, HIPAA, GDPR, PCI) and a 'Chosen' category. The 'General Options' section includes a 'Required' checkbox (checked) and a 'Default Value' field with a 'Show Formula Editor' link. A small note at the bottom explains the formula syntax.

## 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

Setup > Object Manager

## Execution Detail

Details

- Fields & Relationships
- Page Layouts
- Lightning Record Pages
- Buttons, Links, and Actions
- Compact Layouts
- Field Sets
- Object Limits
- Record Types
- Related Lookup Filters
- Search Layouts
- List View Button Layout

**Field: Execution Detail Name**

The Record Name appears in page layouts, key lists, related lists, lookups, 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: **Execution Detail Name**  
Example: Account Name

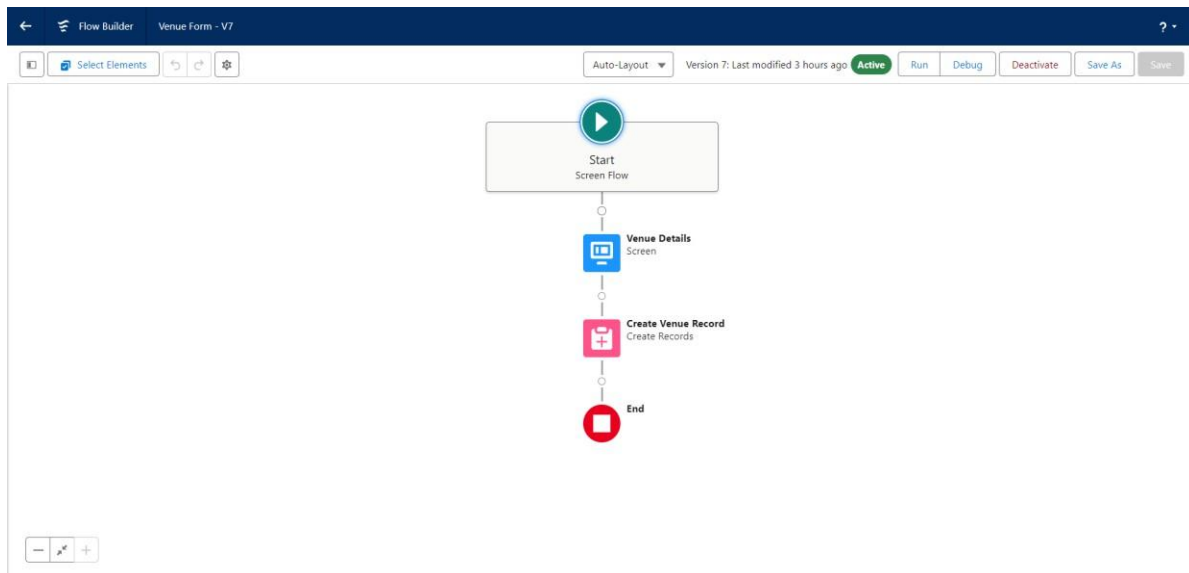
Data Type: **Text**

Save Cancel

Recent Accounts

Account Name	City
Acme	New York
Global Media	Toronto
Salesforce.com	San Francisco

h. Create Flow to create a record in Venue object  
the flow should look like this----



Flow Builder: Venue Form - V7

Auto-Layout Version 7: Last modified 3 hours ago Active Run Debug Deactivate Save As Save

### Edit Screen

**Components** Fields

Search components...

- Input (53)
  - Action Button (Beta)
  - Add Attendees
  - Address
  - Call Script
  - Cancel Appointment
  - Checkbox
  - Checkbox Group

Get more on the AppExchange

**Venue Form**

Venue Name

Email

Phone

Venue Location

**Screen Properties**

\*Label

Venue Details

\*API Name

Venue\_Details

Description

> Configure Header

> Configure Footer

Cancel Done

Flow Builder: Venue Form - V7

Auto-Layout | Version 7: Last modified 3 hours ago | Active | Run | Debug | Deactivate | Save As | Save

Select Elements

Screen Flow Start

Venue Details Screen

Create Venue Record Create Records

End

Create Records

Create a Record of This Object

\*Object: Venue

Set Field Values for the Venue

Field	Value
Contact_Email__c	Ⓐ Contact_Email__c > Value X
Contact_Phone__c	Ⓐ Contact_Phone__c > Value X
Name	Ⓐ Venue_Name X
Venue_Location__c	Ⓐ Venue_Location__c X

+ Add Field

☐ Manually assign variables

Check for Matching Records: Disabled

Developer Console - Google Chrome

itmuniversity-f-dev-ed.develop.my.salesforce.com/\_ui/common/apex/debug/ApexCSIPage

File | Edit | Debug | Test | Workspace | Help

DropOffTrigger.apex

Code Coverage: None | API Version: 61

```

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

```

Logs | Tests | Checkpoints | Query Editor | View State | Progress | Problems

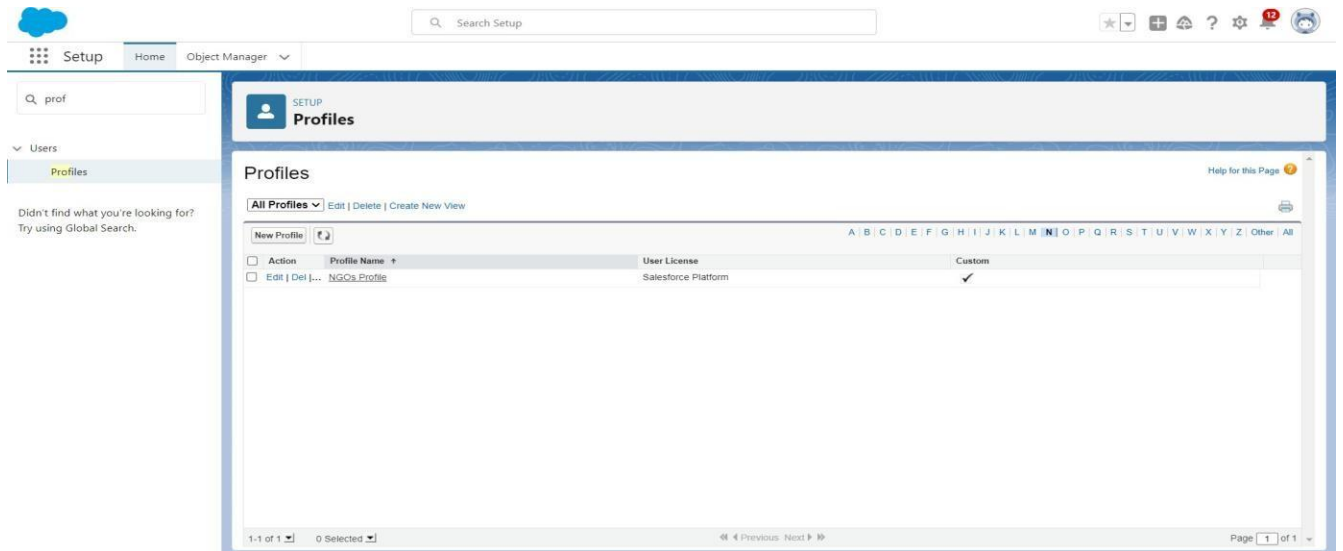
Status	Test Run	Enqueued Time	Duration	Failures	Total
Overall Code Coverage: 0%					
Class					
Overall 0%					
DropOffTrigger 0% 0/2					

the code should look like this the trigger has created.



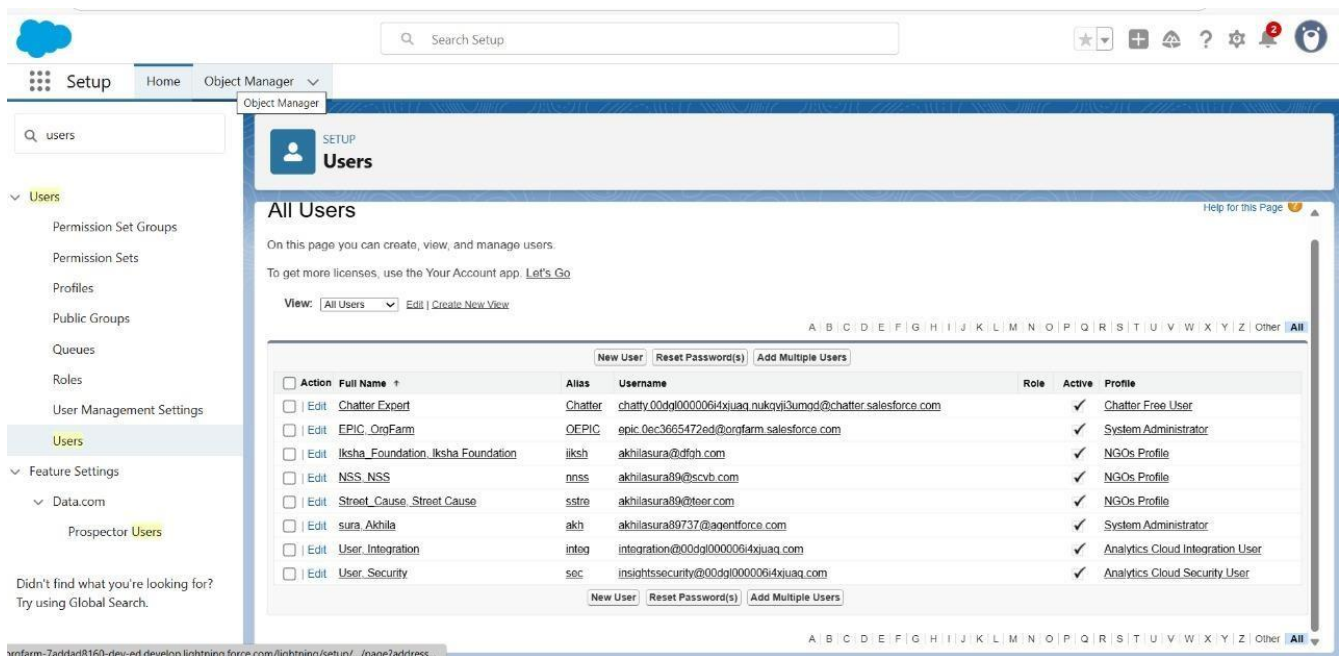
## j. Creation of Users and profile

here we have to create a NGOs profile and under this profile we have to create a users that are going to be the NGOs foundations



The screenshot shows the Salesforce Setup interface. The left sidebar has a search bar with "prof" entered. The main content area is titled "Profiles" and shows a table with one profile: "NGOs\_Profile". The table has columns for Action, Profile Name, User License, and Custom. The "NGOs\_Profile" row shows "Salesforce Platform" for User License and a checkmark for Custom.

Action	Profile Name	User License	Custom
<a href="#">Edit</a>   <a href="#">Delete</a>	NGOs_Profile	Salesforce Platform	✓



The screenshot shows the Salesforce Setup interface. The left sidebar has a search bar with "users" entered. The main content area is titled "All Users" and shows a table with 10 users. The table has columns for Action, Full Name, Alias, Username, Role, Active, and Profile. The users listed are: Chatter Expert, EPIC\_OrgFarm, Iksha\_Foundation, NSS\_NSS, Street\_Cause, sura\_Akhila, User\_Integration, and User\_Security. The "Role" column shows "Chatter Free User", "System Administrator", "NGOs\_Profile", "NGOs\_Profile", "NGOs\_Profile", "System Administrator", "Analytics Cloud Integration User", and "Analytics Cloud Security User".

Action	Full Name	Alias	Username	Role	Active	Profile
<a href="#">Edit</a>	Chatter Expert	Chatter	chatty00d9l000006i4xuaq_nukovi3umod@chatter.salesforce.com		✓	Chatter Free User
<a href="#">Edit</a>	EPIC_OrgFarm	OEPIK	epic.0ec3665472ed@orgfarm.salesforce.com		✓	System Administrator
<a href="#">Edit</a>	Iksha_Foundation	iksha	akhilasura@dfgh.com		✓	NGOs_Profile
<a href="#">Edit</a>	NSS_NSS	nss	akhilasura89@scvb.com		✓	NGOs_Profile
<a href="#">Edit</a>	Street_Cause	stroe	akhilasura89@toer.com		✓	NGOs_Profile
<a href="#">Edit</a>	sura_Akhila	akh	akhilasura89737@agentforce.com		✓	System Administrator
<a href="#">Edit</a>	User_Integration	intog	integration@000d9l0000009i4xuaq.com		✓	Analytics Cloud Integration User
<a href="#">Edit</a>	User_Security	sec	insightssecurity@00d9l0000009i4xuaq.com		✓	Analytics Cloud Security User

## k. Creation of Public Group 1,2,3

The screenshot shows the Salesforce Setup interface. The left sidebar contains a search bar with "public groups" entered, and a list of navigation items including "Users" and "Public Groups". The main content area is titled "Public Groups" and includes a description: "A public group is a set of users. It can contain individual users, other groups, the users in a particular role or territory, or the users in a role or territory plus all of the users below that role or territory in the hierarchy." Below the description is a table with columns: Action, Label, Group Name, Created By, and Created Date. The table lists three groups: "iksha", "NSS", and "Street\_Cause", all created by "sura\_Akhila" on 7/19/2025.

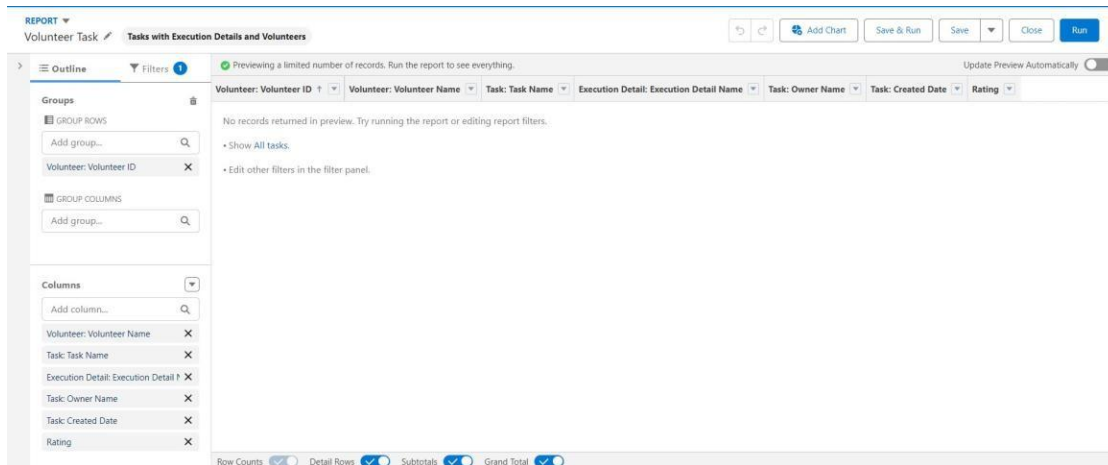
Action	Label	Group Name	Created By	Created Date
Edit   Del	iksha	iksha	sura_Akhila	7/19/2025, 7:28 AM
Edit   Del	NSS	NSS	sura_Akhila	7/19/2025, 7:29 AM
Edit   Del	Street_Cause	Street_Cause	sura_Akhila	7/19/2025, 7:31 AM

## Creation of Report on Venue with Drop-Off with Volunteer

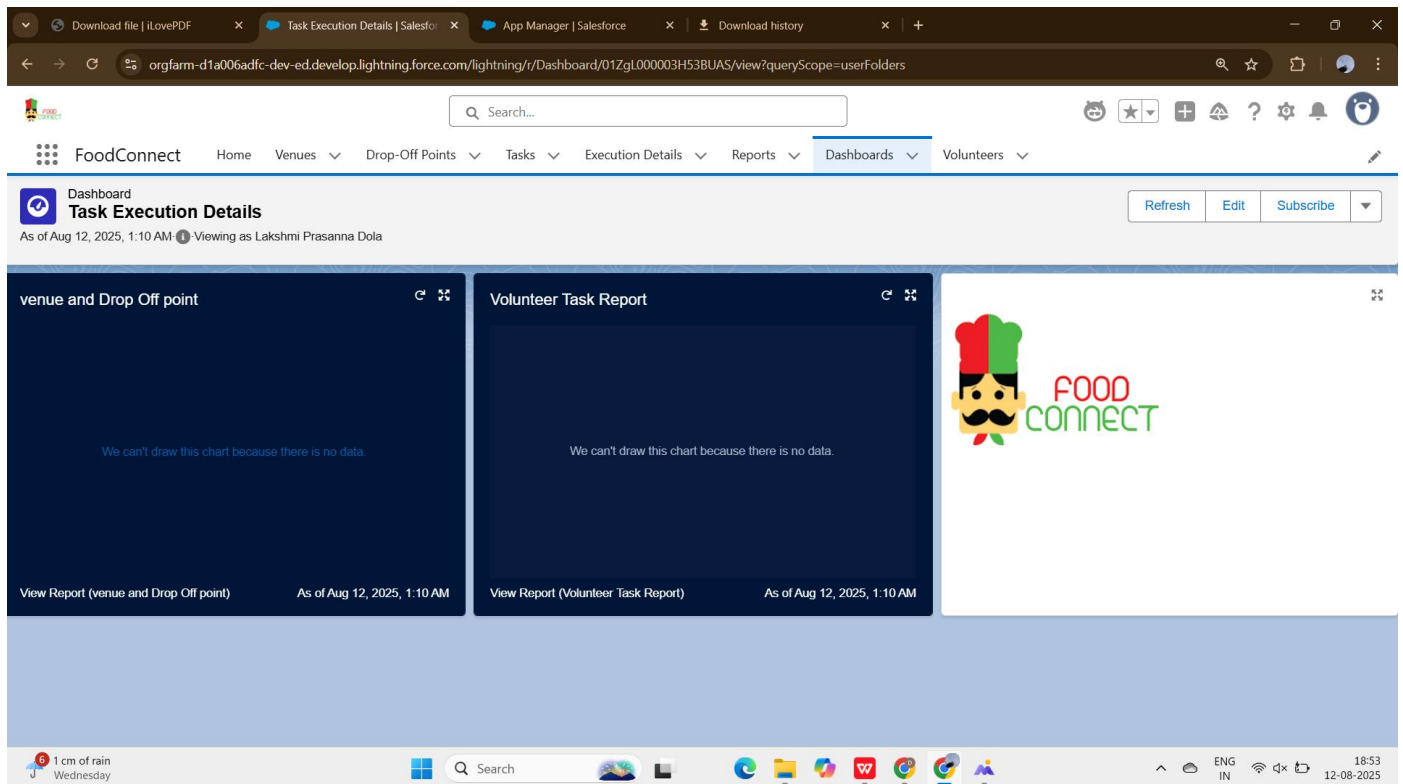
The screenshot shows the Salesforce Reports interface. The left sidebar contains a search bar and a list of navigation items including "Reports". The main content area is titled "Venue with DropOff with Volunteer" and includes a description: "Previewing a limited number of records. Run the report to see everything." Below the description is a table with columns: Volunteer Name, Drop-Off Point Name, and Distance. The table is currently empty, with a message: "No records returned in preview. Try running the report or editing report filters." Below the table are several filter options: "Show All venues", "Set the Created Date filter to All Time", and "Edit other filters in the filter panel."

Volunteer Name	Drop-Off Point Name	Distance
----------------	---------------------	----------

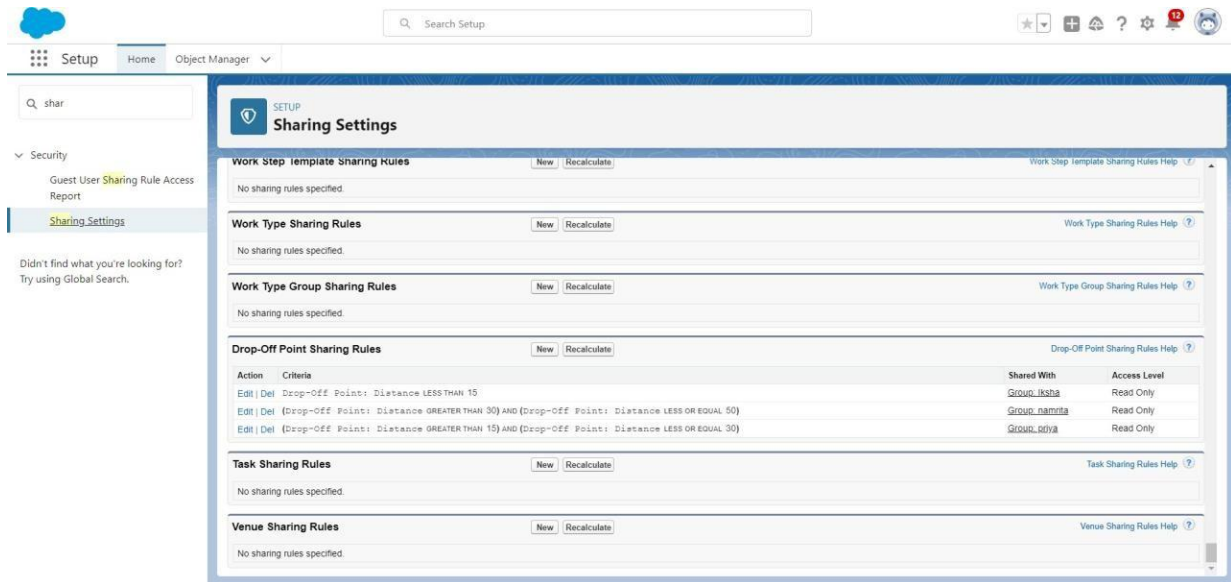
# Creation of Report on Volunteers with Execution Details and Tasks



## 1. Dashboard



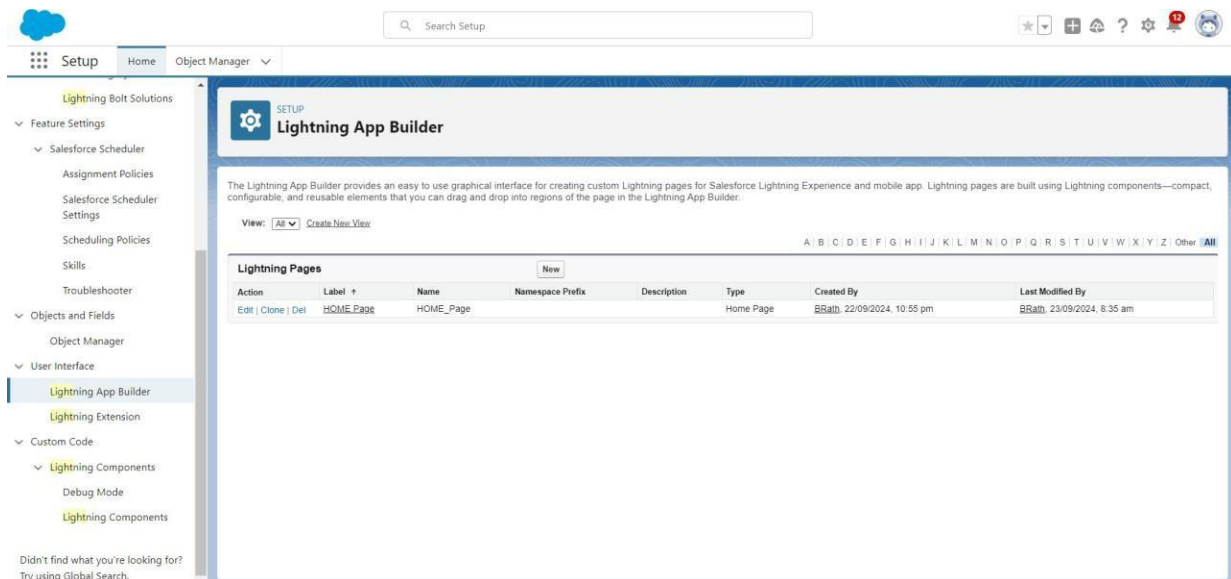
## m. Creation of sharing rules



The screenshot shows the Salesforce Setup interface with the 'Sharing Settings' page selected. The left sidebar contains navigation links for Setup, Home, and Object Manager. The main content area is titled 'Sharing Settings' and includes sections for Work Step Template Sharing Rules, Work Type Sharing Rules, Work Type Group Sharing Rules, Drop-Off Point Sharing Rules, Task Sharing Rules, and Venue Sharing Rules. The Drop-Off Point Sharing Rules section is expanded, showing a table of rules.

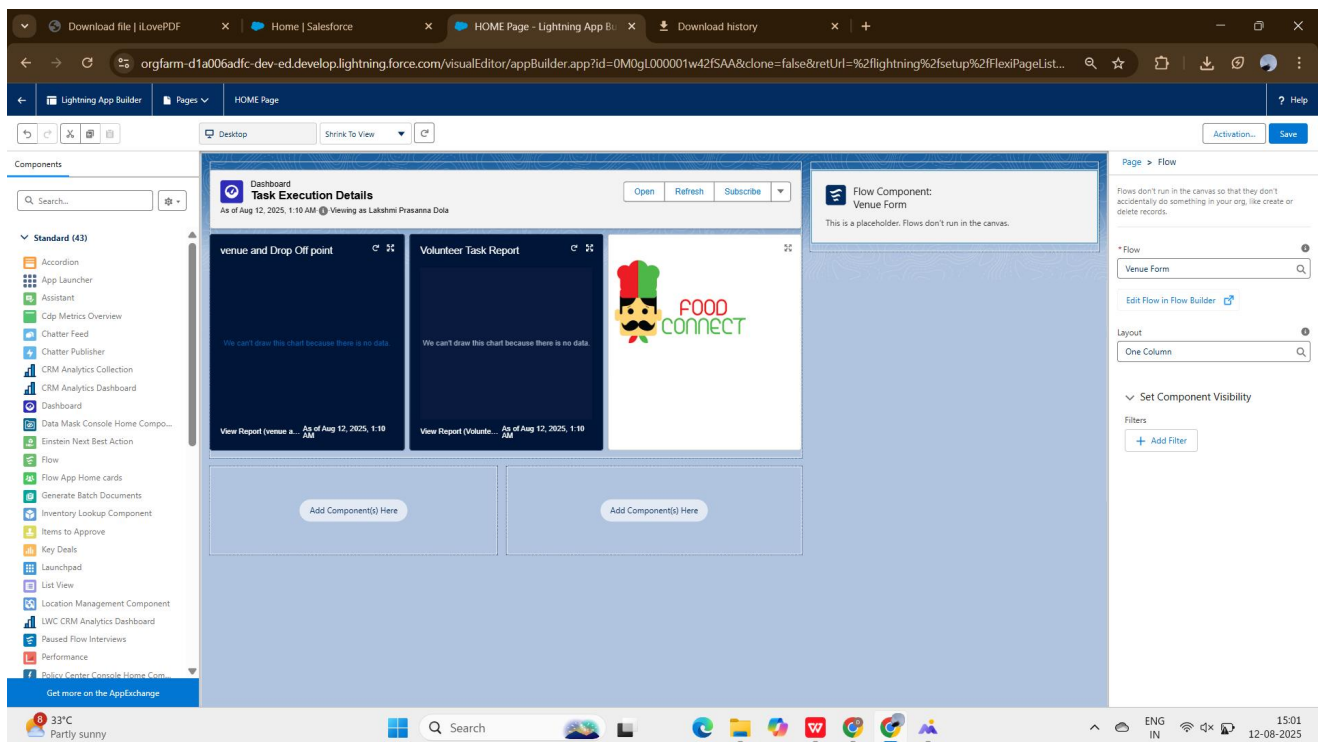
Action	Criteria	Shared With	Access Level
Edit   Del	Drop-Off Point: Distance LESS THAN 15	Group: Iksha	Read Only
Edit   Del	Drop-Off Point: Distance GREATER THAN 30 AND (Drop-Off Point: Distance LESS OR EQUAL 50)	Group: namita	Read Only
Edit   Del	Drop-Off Point: Distance GREATER THAN 15 AND (Drop-Off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

## n. Creation of Home Page

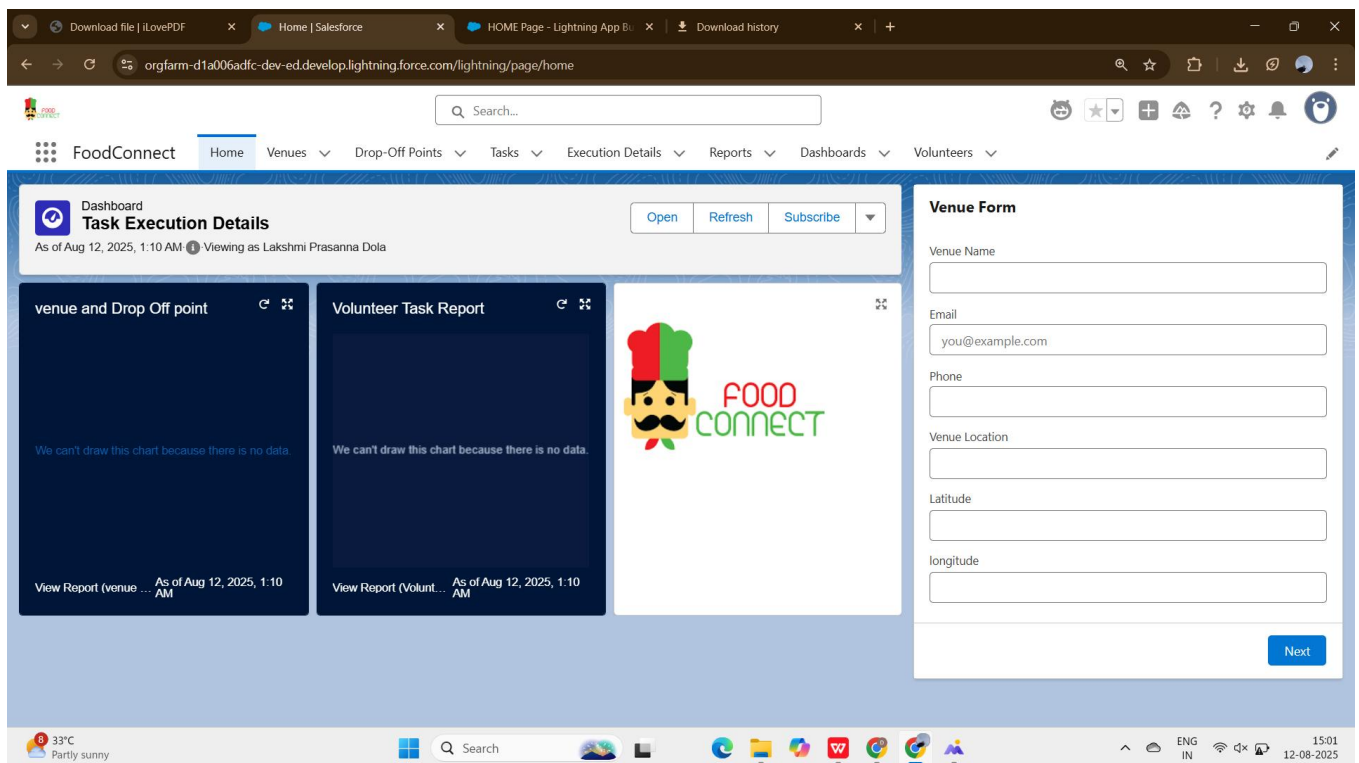


The screenshot shows the Salesforce Setup interface with the 'Lightning App Builder' page selected. The left sidebar contains navigation links for Setup, Home, and Object Manager. The main content area is titled 'Lightning App Builder' and includes a description of the tool and a table of Lightning Pages.

Action	Label	Name	Namespace Prefix	Description	Type	Created By	Last Modified By
Edit   Clone   Del	HOME_Page	HOME_Page			Home Page	BRath, 22/09/2024, 10:55 pm	BRath, 23/09/2024, 8:35 am



## 6. OUTPUT SCREENSHOTS



THE FINAL OUTPUT OF THE APP SHOULD LOOK LIKE THIS AFTER FOLLOWING ALL THE STEPS CORECTLY AS YOU CAN SE MY OUTPUT LOOKS CORRECT AS THE OUT-PUT SHOULD BE LIKE THIS

## 7. Conclusion

The project, built on the Salesforce platform, delivered a well-structured and transparent process for managing excess food donations. Through streamlined volunteer engagement and prompt deliveries, it addressed hunger challenges while utilizing resources to their fullest potential.

**Food Connect** aims to bridge the gap between excess food and underserved communities by streamlining and automating the donation workflow using Salesforce. The project demonstrates how Salesforce's versatile capabilities can empower non-profits and create significant social impact through technology.

## 8. Future Enhancements

- ❖ **Mobile App Integration** – Enable real-time access for donors, volunteers, and beneficiaries.
- ❖ **AI Demand Prediction** – Use Salesforce Einstein to forecast food needs.
- ❖ **Automated Volunteer Assignment** – Match pickups to nearby volunteers automatically.
- ❖ **Route Optimization** – Integrate with maps for faster, cost-effective deliveries.
- ❖ **Donor Engagement** – Send thank-you messages, certificates, and impact reports.
- ❖ **Beneficiary Feedback** – Collect feedback via forms or portals.