

## Project title

**Salesforce Developer Project to Supply Leftover Food to the Poor**

## Submitted by

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## 1. Project Overview

This project is focused on reducing food waste and addressing hunger by developing a system using Salesforce technology. The goal is to connect restaurants, grocery stores, and food suppliers with non-profit organizations to facilitate efficient distribution of surplus food to those in need. Leveraging Salesforce CRM as the platform's backbone, the project aims to enhance operational efficiency, automate logistics, and ensure real-time tracking of food donations and deliveries, thus supporting the mission to reduce food insecurity.

## 2. Objectives

### Business Goals:

- Minimize food waste by streamlining the donation process.
- Alleviate hunger by efficiently distributing surplus food.

### Specific Outcomes:

- Develop a network for donors and recipients.
- Automate matching processes based on location, food type, and urgency.
- Ensure timely and transparent tracking and delivery of food donations.

### 3. Salesforce Key Features and Concepts Utilized

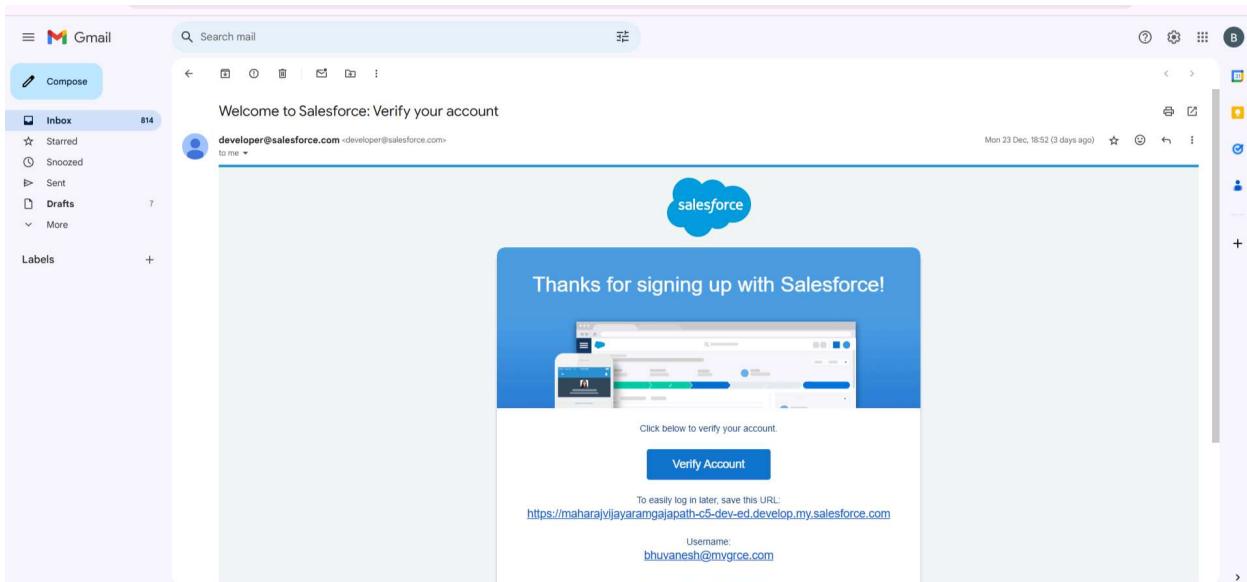
This project utilizes several core Salesforce functionalities:

- **Objects:** Both standard (e.g., Accounts, Contacts) and custom objects were created to handle specific requirements for food donations, recipients, and logistics.
- **Tabs:** Custom tabs were developed to access and manage various objects, including Venues, Drop-Off Points, and Volunteers.
- **Fields:** Custom fields within objects capture essential data, such as contact information, task details, and volunteer schedules.
- **Flows:** Automation flows guide processes, ensuring seamless record creation and updates.
- **Triggers:** Apex triggers enforce custom business rules and actions within the system.
- **Profiles:** Defined user permissions for different roles to ensure secure access.
- **Users:** Added users with specific roles and permissions to manage activities within the application.
- **Public Groups:** Created to manage permissions and data visibility effectively.
- **Report Types and Dashboards:** Generated custom reports and dashboards to visualize key metrics for decision-making and track progress.

## 4. Detailed Steps to Solution Design

### salesforce developer account creation

Creating a developer org in salesforce and Account Activation



### Object

In Salesforce, an object is a database table that stores data related to a specific entity, such as customers, products, or sales transactions. Objects are the building blocks of Salesforce data models.

There are two types of objects in Salesforce:

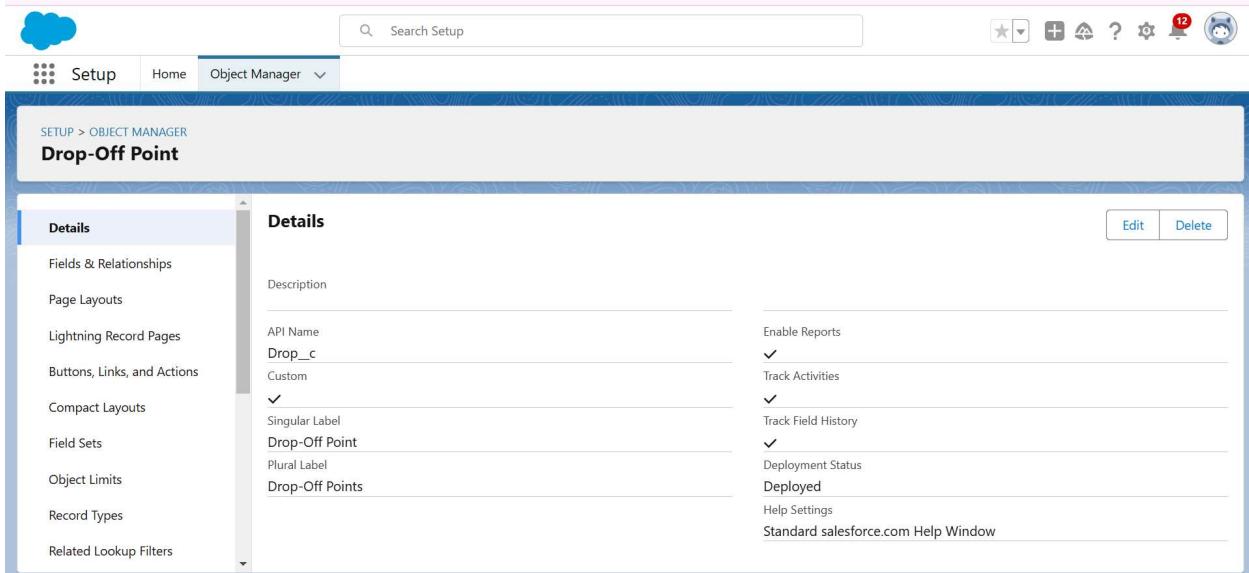
**1. Standard Objects:** These are pre-built objects provided by Salesforce, such as Accounts, Contacts, Leads, and Opportunities, which cover common business processes.

**2. Custom Objects:** These are user-defined objects created to store data unique to a particular business or application. Custom objects can have custom fields, relationships, and custom logic through workflows and triggers.

Objects are essential for organizing and managing data within the Salesforce platform. To create an object:

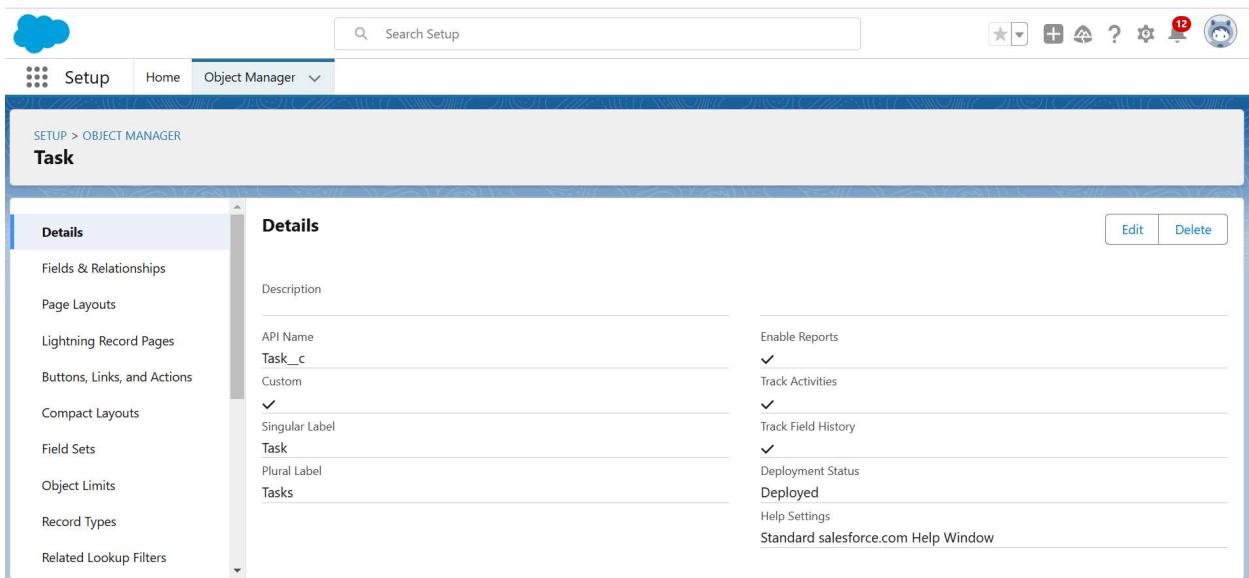
Here, We have Created All the objects which where asked.

## 1. Drop-Off Point



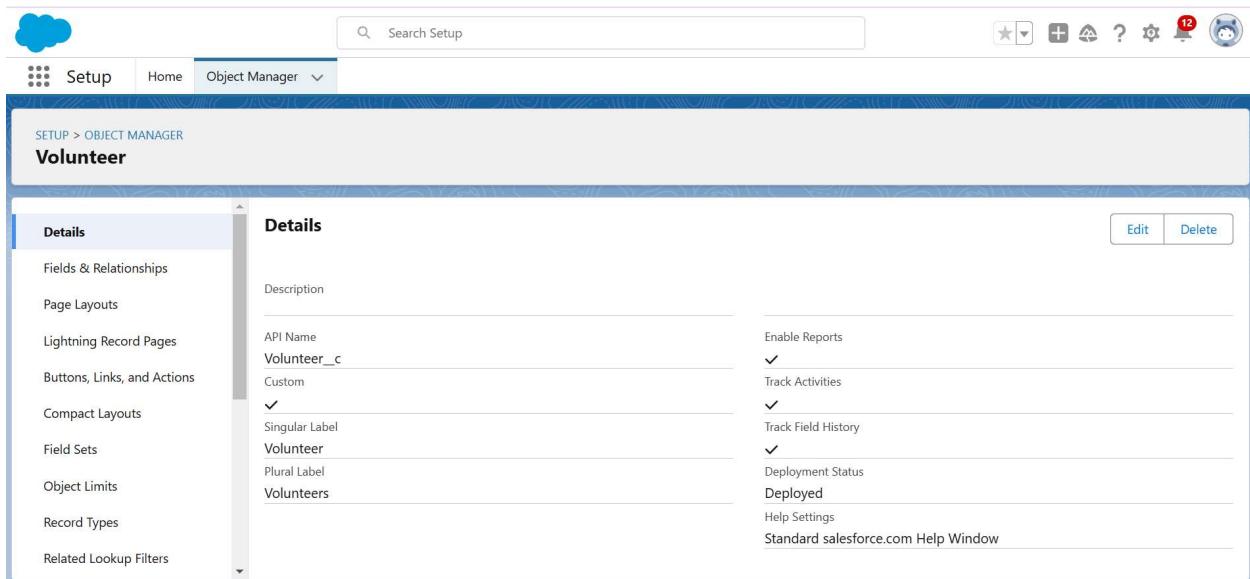
The screenshot shows the Salesforce Object Manager interface for the 'Drop-Off Point' object. The top navigation bar includes 'Setup', 'Home', and 'Object Manager'. The main title is 'SETUP > OBJECT MANAGER Drop-Off Point'. On the left, a sidebar lists various object settings like Fields & Relationships, Page Layouts, and Record Types. The right panel displays the 'Details' section for the 'Drop-Off Point' object, showing fields such as API Name (Drop\_\_c), Singular Label (Drop-Off Point), and Plural Label (Drop-Off Points). The 'Edit' and 'Delete' buttons are located at the top right of the details panel.

## 2. Task



The screenshot shows the Salesforce Object Manager interface for the 'Task' object. The top navigation bar includes 'Setup', 'Home', and 'Object Manager'. The main title is 'SETUP > OBJECT MANAGER Task'. The left sidebar lists various object settings. The right panel displays the 'Details' section for the 'Task' object, showing fields such as API Name (Task\_\_c), Singular Label (Task), and Plural Label (Tasks). The 'Edit' and 'Delete' buttons are located at the top right of the details panel.

### 3. Volunteer

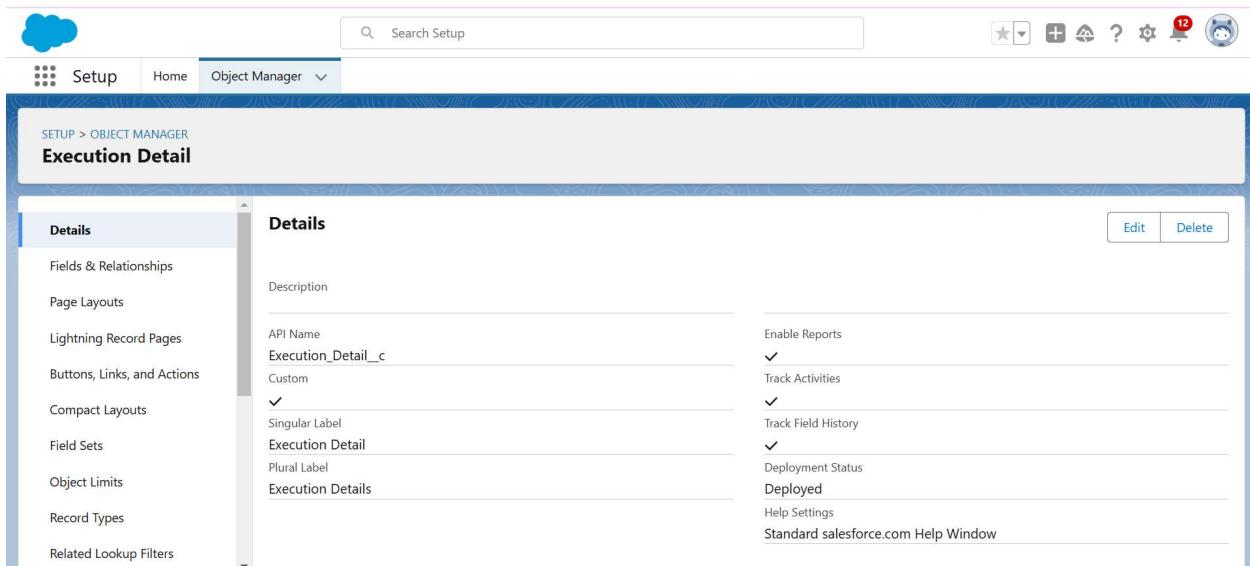


The screenshot shows the Salesforce Setup interface for the 'Object Manager' under 'SETUP > OBJECT MANAGER'. The object being edited is 'Volunteer'. The left sidebar lists various configuration options: Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, and Related Lookup Filters. The main 'Details' tab is selected, showing the following fields:

Field	Value
Description	
API Name	Volunteer__c
Custom	✓
Singular Label	Volunteer
Plural Label	Volunteers
Enable Reports	✓
Track Activities	✓
Track Field History	✓
Deployment Status	Deployed
Help Settings	Standard salesforce.com Help Window

Buttons for 'Edit' and 'Delete' are located at the top right of the details panel.

### 4. Execution details

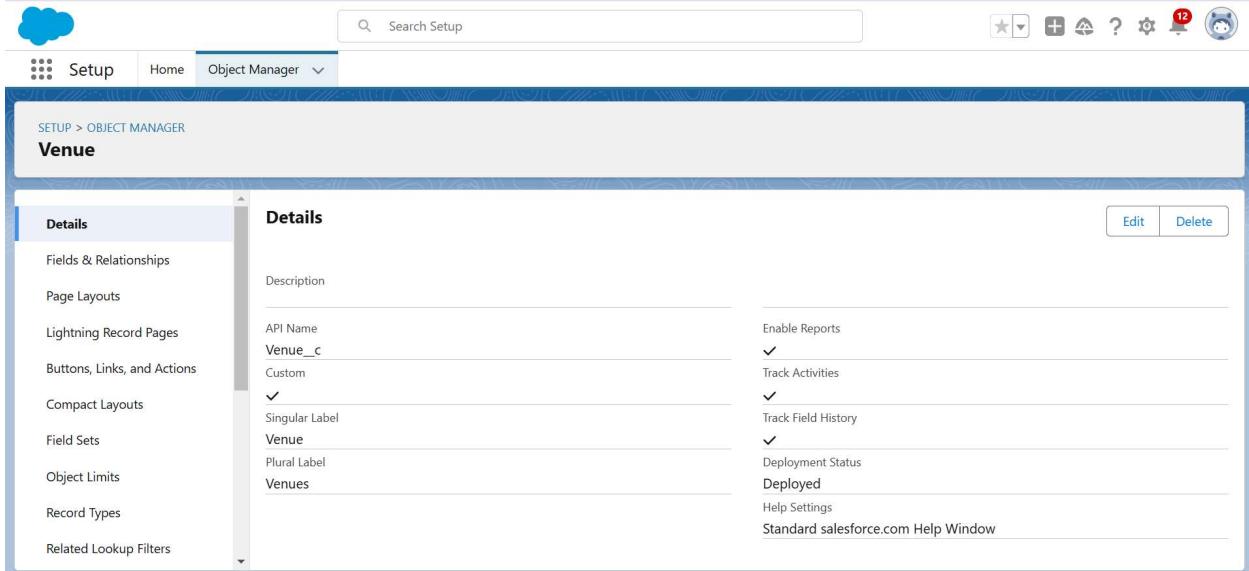


The screenshot shows the Salesforce Setup interface for the 'Object Manager' under 'SETUP > OBJECT MANAGER'. The object being edited is 'Execution Detail'. The left sidebar lists various configuration options: Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, and Related Lookup Filters. The main 'Details' tab is selected, showing the following fields:

Field	Value
Description	
API Name	Execution_Detail__c
Custom	✓
Singular Label	Execution Detail
Plural Label	Execution Details
Enable Reports	✓
Track Activities	✓
Track Field History	✓
Deployment Status	Deployed
Help Settings	Standard salesforce.com Help Window

Buttons for 'Edit' and 'Delete' are located at the top right of the details panel.

## 5. Venue



The screenshot shows the Salesforce Object Manager interface for the 'Venue' object. The left sidebar lists various configuration tabs: Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, and Related Lookup Filters. The main 'Details' tab is selected, showing the following fields:

Description	
API Name	Venue_c
Custom	✓
Singular Label	Venue
Plural Label	Venues
Enable Reports	
✓	
Track Activities	
✓	
Track Field History	
✓	
Deployment Status	
Deployed	
Help Settings	
Standard salesforce.com Help Window	

Buttons at the top right include 'Edit' and 'Delete'.

## Tabs

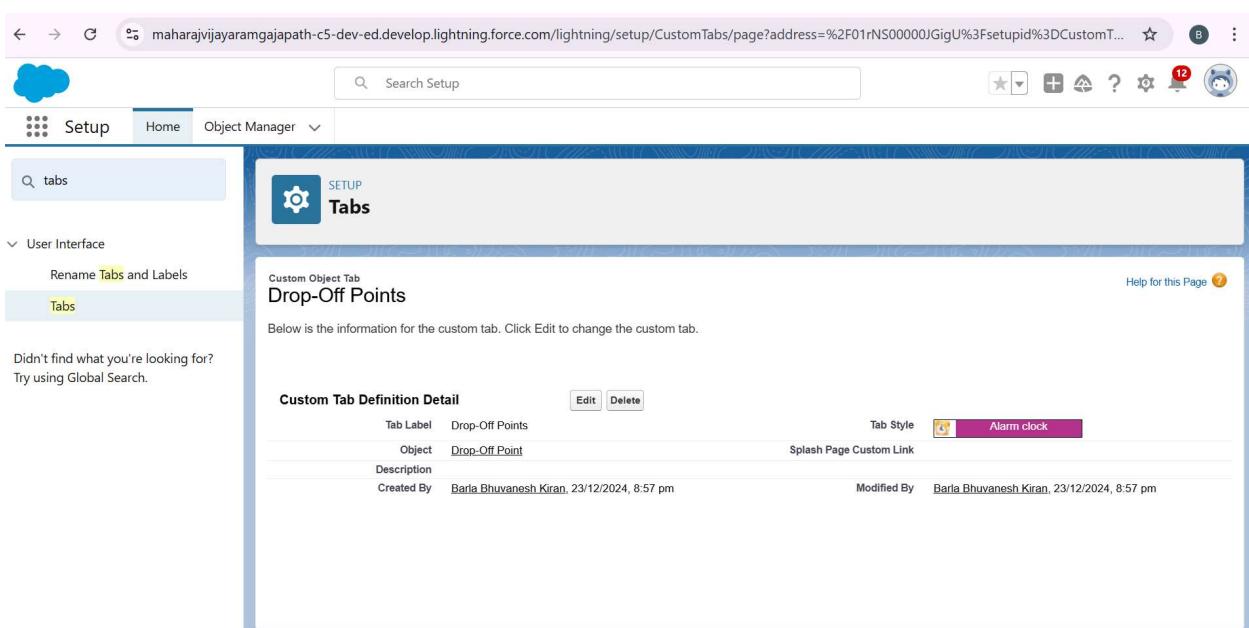
What is Tab ?

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**

### Create Venues Tab

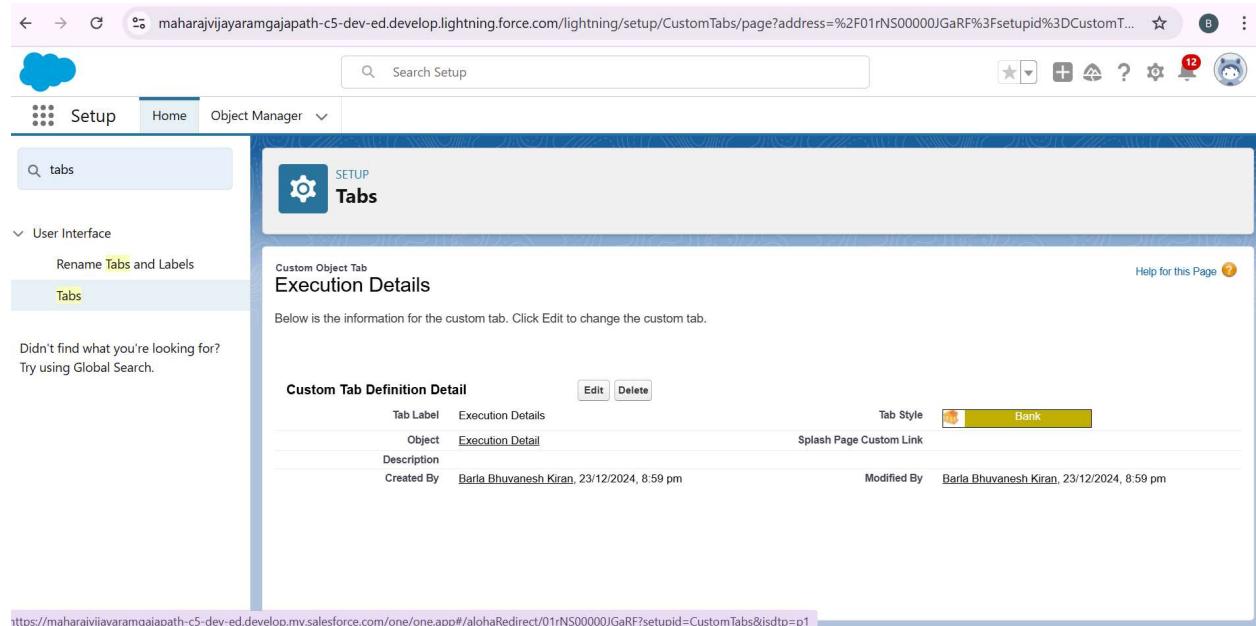
#### 1.Drop-Off Point Tab



The screenshot shows the Salesforce Setup page for creating a custom tab. The left sidebar has a 'User Interface' section with 'Tabs' selected. The main area shows a 'Custom Object Tab' named 'Drop-Off Points'. The 'Custom Tab Definition Detail' table includes the following information:

Tab Label	Drop-Off Points	Tab Style	
Object	Drop-Off Point	Splash Page Custom Link	
Description			
Created By	Baria Bhuvanesh Kiran, 23/12/2024, 8:57 pm	Modified By	Baria Bhuvanesh Kiran, 23/12/2024, 8:57 pm

## 2.Execution details Tab

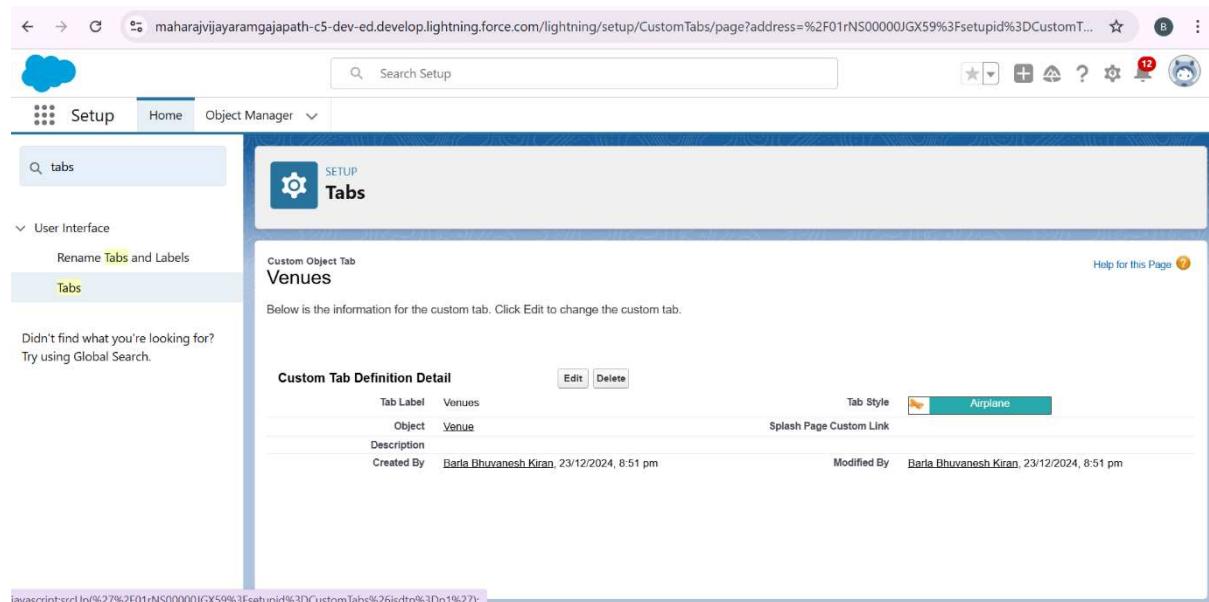


The screenshot shows the Salesforce Setup interface under the 'Tabs' section. A custom tab named 'Execution Details' has been created for the 'Execution Detail' object. The tab is styled as 'Bank' and includes a 'Splash Page Custom Link'. The creation and modification details are listed as follows:

Tab Label	Execution Details	Tab Style	Bank
Object	<a href="#">Execution Detail</a>	Splash Page Custom Link	
Description			
Created By	Barla Bhuvanesh Kiran, 23/12/2024, 8:59 pm	Modified By	Barla Bhuvanesh Kiran, 23/12/2024, 8:59 pm

The URL shown in the browser address bar is: <https://maharajvijayaramgajapath-c5-dev-ed.develop.my.salesforce.com/one/one.app#/alohaRedirect/01rNS00000JGx59%3Fsetupid%3DCustomTab%26isdtpp%3Dp1%27>

## 3.Venues

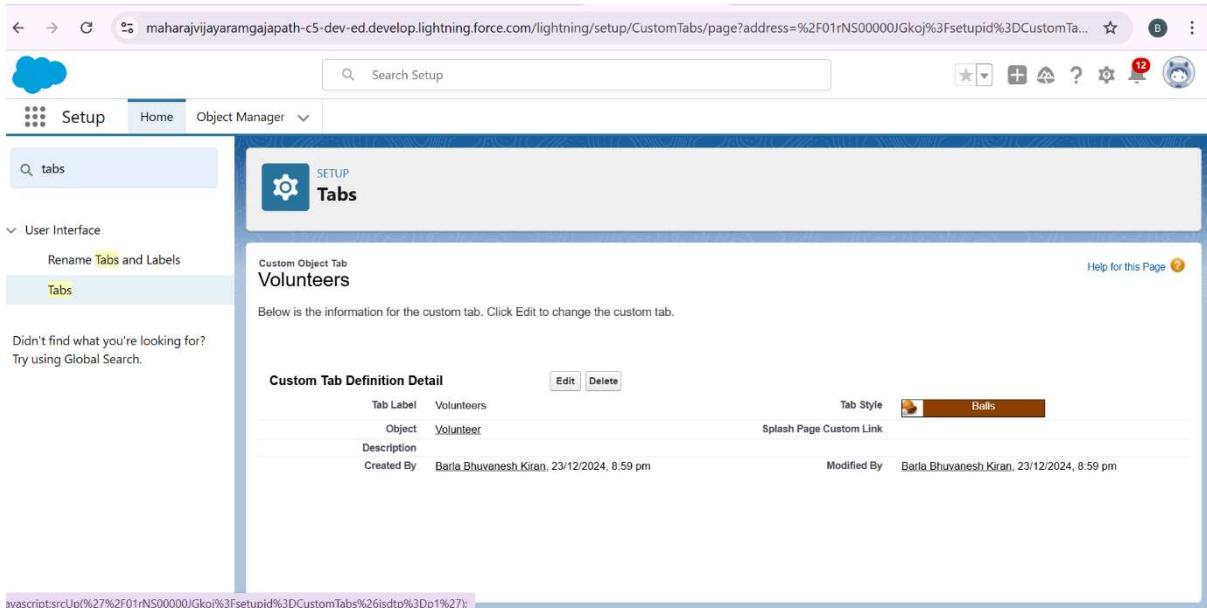


The screenshot shows the Salesforce Setup interface under the 'Tabs' section. A custom tab named 'Venues' has been created for the 'Venue' object. The tab is styled as 'Airplane' and includes a 'Splash Page Custom Link'. The creation and modification details are listed as follows:

Tab Label	Venues	Tab Style	Airplane
Object	<a href="#">Venue</a>	Splash Page Custom Link	
Description			
Created By	Barla Bhuvanesh Kiran, 23/12/2024, 8:51 pm	Modified By	Barla Bhuvanesh Kiran, 23/12/2024, 8:51 pm

The URL shown in the browser address bar is: [javascript:srcUp\(%27%2F01rNS00000JGx59%3Fsetupid%3DCustomTab%26isdtpp%3Dp1%27\);](javascript:srcUp(%27%2F01rNS00000JGx59%3Fsetupid%3DCustomTab%26isdtpp%3Dp1%27);)

#### 4. Volunteers Tab

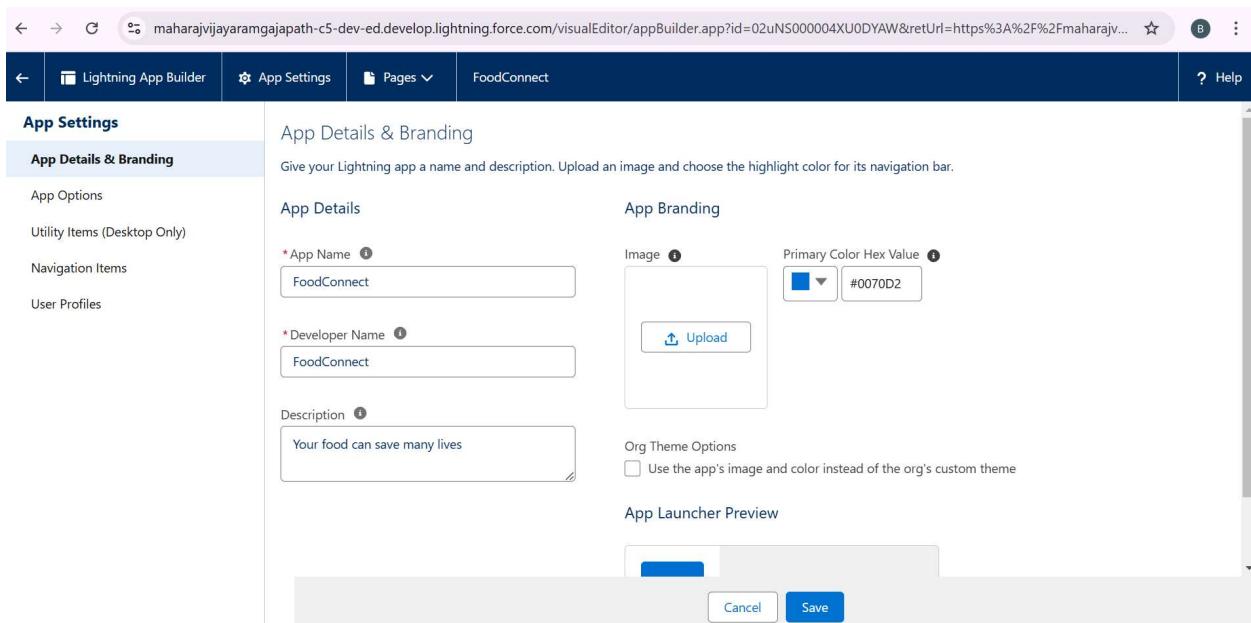


The screenshot shows the Salesforce Setup interface under the 'Tabs' section. A custom tab named 'Volunteers' has been created for the 'Volunteer' object. The tab style is set to 'Balls'. The creation details show it was created by Barla.Bhuvanesh.Kiran on 23/12/2024 at 8:59 pm.

Custom Tab Definition Detail	Tab Label	Object	Description	Created By	Modified By
	Volunteers	Volunteer		Barla.Bhuvanesh.Kiran, 23/12/2024, 8:59 pm	Barla.Bhuvanesh.Kiran, 23/12/2024, 8:59 pm

### Create a Lightning App

Will create a lightning app page-



The screenshot shows the Lightning App Builder configuration for the 'FoodConnect' app. The app details include:

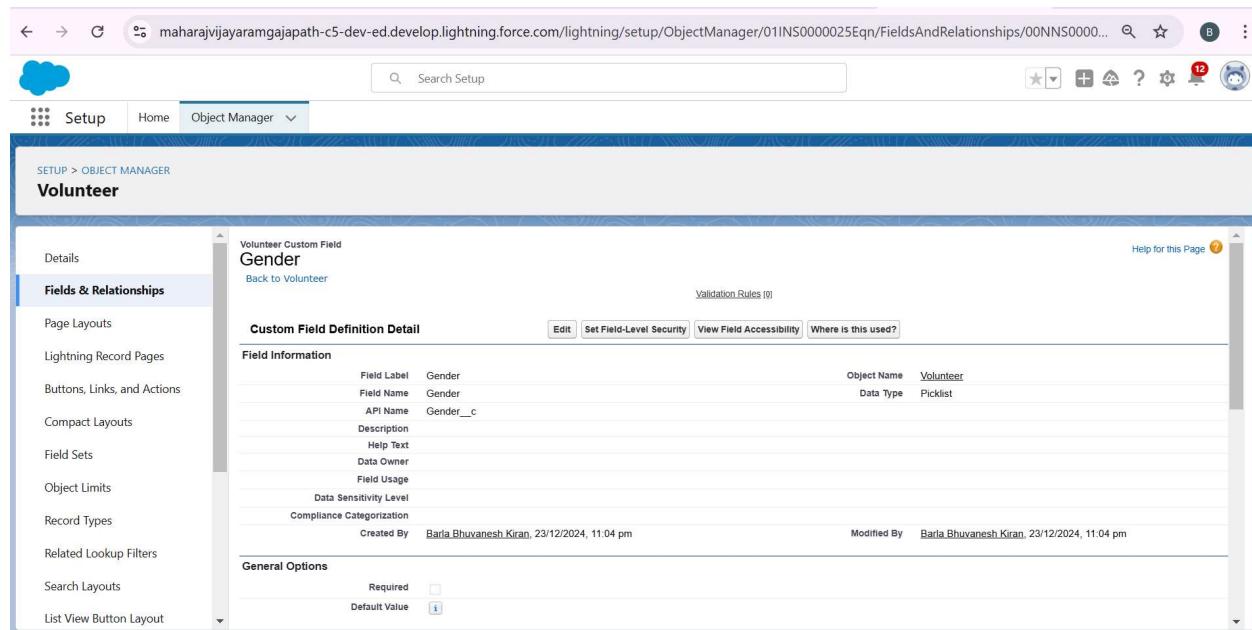
- App Name:** FoodConnect
- Developer Name:** FoodConnect
- Description:** Your food can save many lives
- Image:** An empty image placeholder with an 'Upload' button.
- Primary Color Hex Value:** #0070D2
- Org Theme Options:** A checkbox for 'Use the app's image and color instead of the org's custom theme' is unchecked.

## Fields

### What is a Field?

Fields are specific data points within an object where individual pieces of information are stored. They are akin to columns in a database table and can hold various types of data, such as text, numbers, or dates.

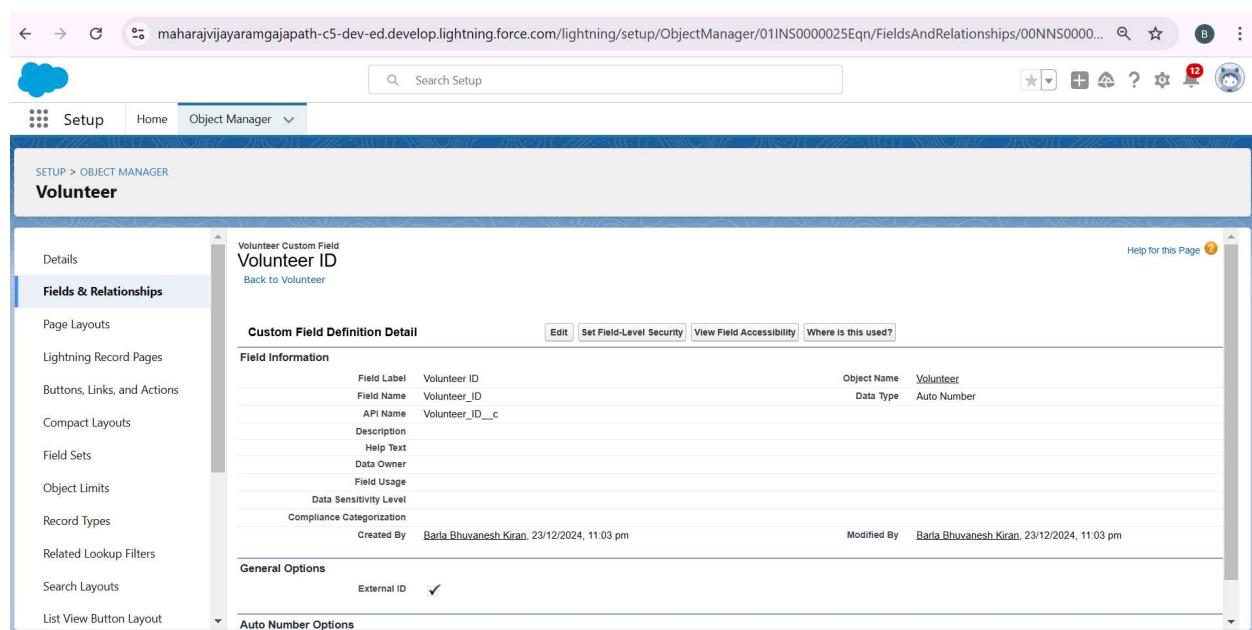
### Creation of Fields for the Volunteer Object - Gender



The screenshot shows the Salesforce Object Manager interface for creating a custom field named 'Gender' on the 'Volunteer' object. The 'Fields & Relationships' tab is selected in the sidebar. The 'Custom Field Definition Detail' page displays the following details:

- Field Information:**
  - Field Label: Gender
  - Field Name: Gender
  - API Name: Gender\_c
  - Description: Help Text
  - Data Owner: Data Usage
  - Data Sensitivity Level: Data Sensitivity Level
  - Compliance Categorization: Compliance Categorization
  - Created By: Barla Bhuvanesh Kiran, 23/12/2024, 11:04 pm
  - Modified By: Barla Bhuvanesh Kiran, 23/12/2024, 11:04 pm
- General Options:**
  - Required:
  - Default Value:

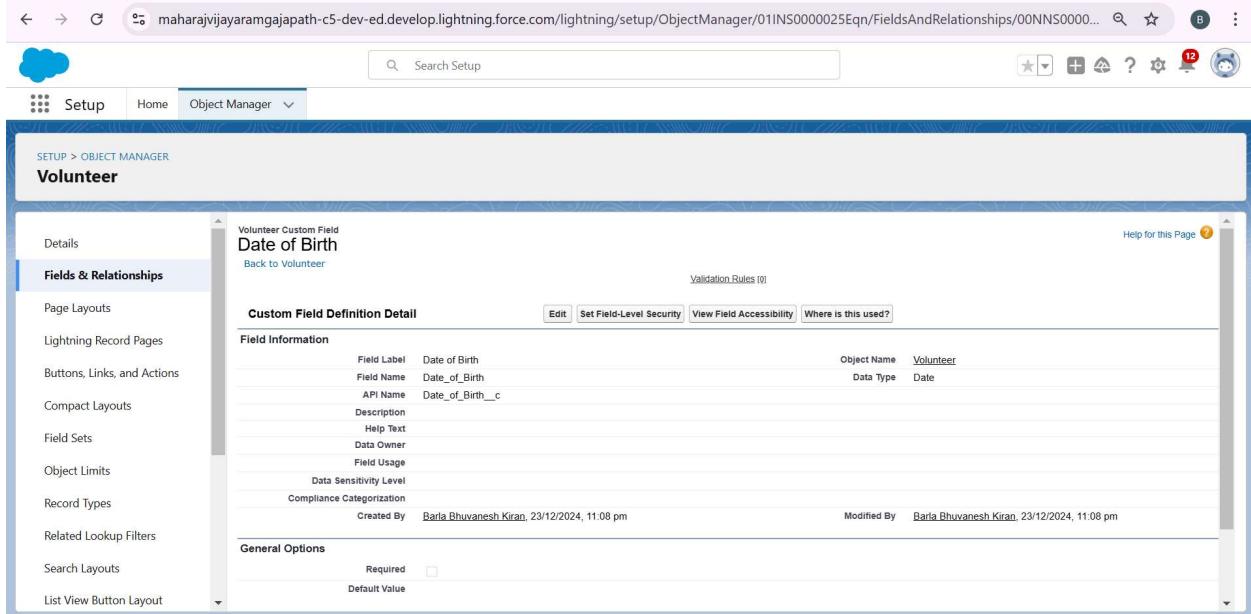
### Volunteer ID



The screenshot shows the Salesforce Object Manager interface for creating a custom field named 'Volunteer ID' on the 'Volunteer' object. The 'Fields & Relationships' tab is selected in the sidebar. The 'Custom Field Definition Detail' page displays the following details:

- Field Information:**
  - Field Label: Volunteer ID
  - Field Name: Volunteer\_ID
  - API Name: Volunteer\_ID\_c
  - Description: Help Text
  - Data Owner: Data Usage
  - Data Sensitivity Level: Data Sensitivity Level
  - Compliance Categorization: Compliance Categorization
  - Created By: Barla Bhuvanesh Kiran, 23/12/2024, 11:03 pm
  - Modified By: Barla Bhuvanesh Kiran, 23/12/2024, 11:03 pm
- General Options:**
  - External ID:
- Auto Number Options:** (This section is partially visible at the bottom)

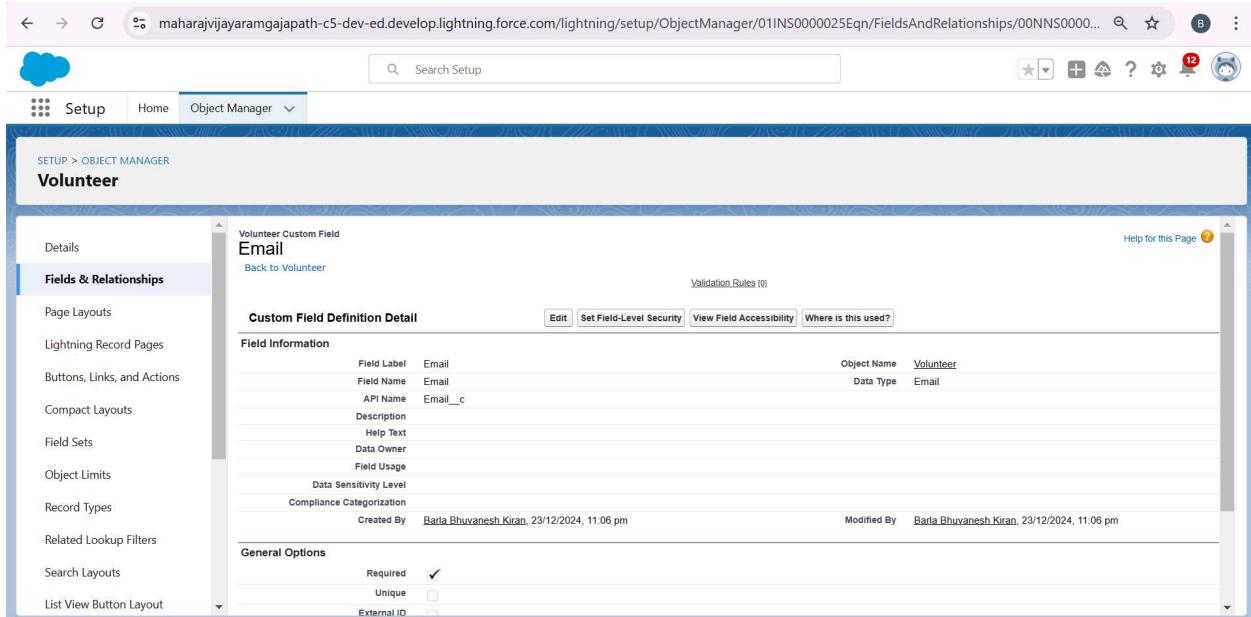
## Date Of Birth



The screenshot shows the Salesforce Object Manager interface for the 'Volunteer' object. The 'Date of Birth' custom field is selected. The 'Custom Field Definition Detail' page displays the following information:

- Field Information:**
  - Field Label: Date of Birth
  - Field Name: Date\_of\_Birth
  - API Name: Date\_of\_Birth\_\_c
  - Description: (empty)
  - Help Text: (empty)
  - Data Owner: (empty)
  - Field Usage: (empty)
  - Data Sensitivity Level: (empty)
  - Compliance Categorization: (empty)
- General Options:**
  - Created By: Barla Bhuvanesh Kiran, 23/12/2024, 11:08 pm
  - Modified By: Barla Bhuvanesh Kiran, 23/12/2024, 11:08 pm
  - Required:
  - Default Value: (empty)

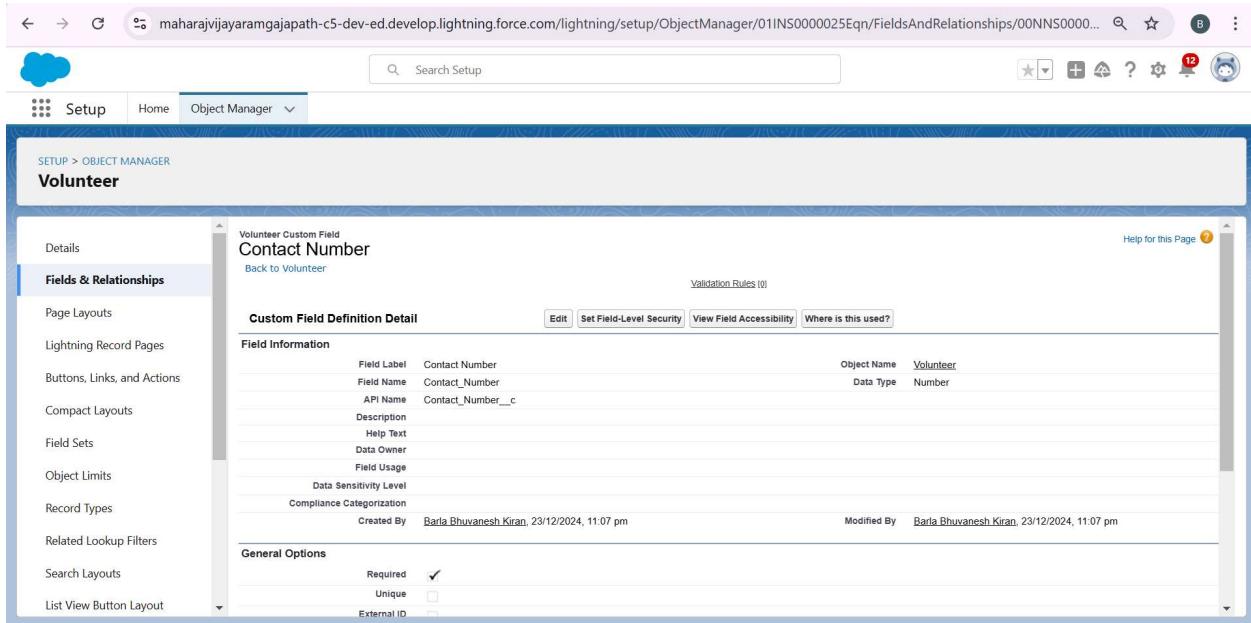
## Email



The screenshot shows the Salesforce Object Manager interface for the 'Volunteer' object. The 'Email' custom field is selected. The 'Custom Field Definition Detail' page displays the following information:

- Field Information:**
  - Field Label: Email
  - Field Name: Email
  - API Name: Email\_\_c
  - Description: (empty)
  - Help Text: (empty)
  - Data Owner: (empty)
  - Field Usage: (empty)
  - Data Sensitivity Level: (empty)
  - Compliance Categorization: (empty)
- General Options:**
  - Created By: Barla Bhuvanesh Kiran, 23/12/2024, 11:06 pm
  - Modified By: Barla Bhuvanesh Kiran, 23/12/2024, 11:06 pm
  - Required:
  - Unique:
  - External ID:

## Contact Number

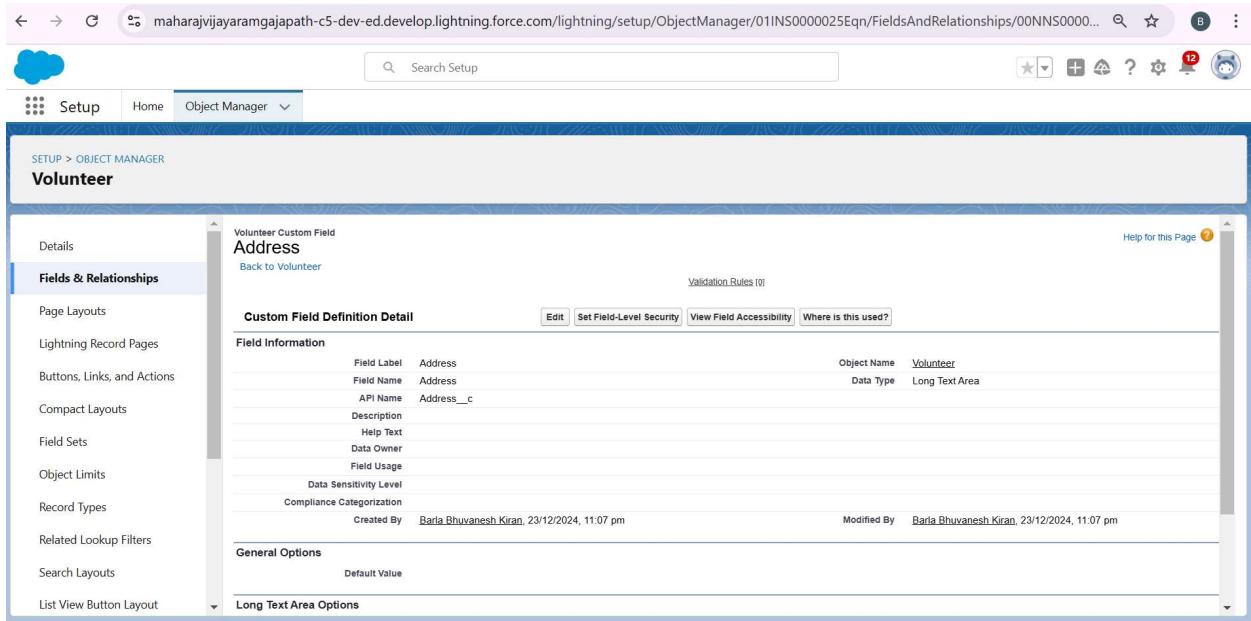


The screenshot shows the Salesforce Object Manager interface for the 'Volunteer' object. A custom field named 'Contact Number' has been created. The field details are as follows:

- Field Label:** Contact Number
- Field Name:** Contact\_Number
- API Name:** Contact\_Number\_c
- Description:** (empty)
- Help Text:** (empty)
- Data Owner:** (empty)
- Field Usage:** (empty)
- Data Sensitivity Level:** (empty)
- Compliance Categorization:** (empty)
- Created By:** Barla Bhuvanesh Kiran, 23/12/2024, 11:07 pm
- Modified By:** Barla Bhuvanesh Kiran, 23/12/2024, 11:07 pm
- Object Name:** Volunteer
- Data Type:** Number

The 'General Options' section shows 'Required' checked and 'Unique' unchecked.

## Address

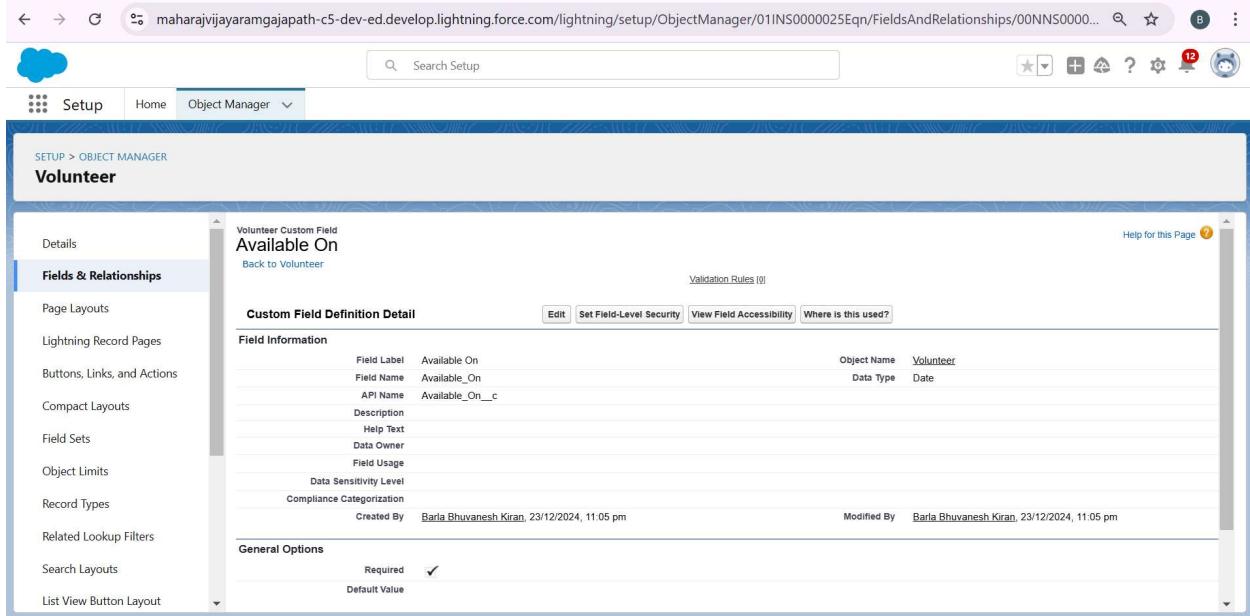


The screenshot shows the Salesforce Object Manager interface for the 'Volunteer' object. A custom field named 'Address' has been created. The field details are as follows:

- Field Label:** Address
- Field Name:** Address
- API Name:** Address\_\_c
- Description:** (empty)
- Help Text:** (empty)
- Data Owner:** (empty)
- Field Usage:** (empty)
- Data Sensitivity Level:** (empty)
- Compliance Categorization:** (empty)
- Created By:** Barla Bhuvanesh Kiran, 23/12/2024, 11:07 pm
- Modified By:** Barla Bhuvanesh Kiran, 23/12/2024, 11:07 pm
- Object Name:** Volunteer
- Data Type:** Long Text Area

The 'General Options' section shows 'Default Value' selected.

## Available On



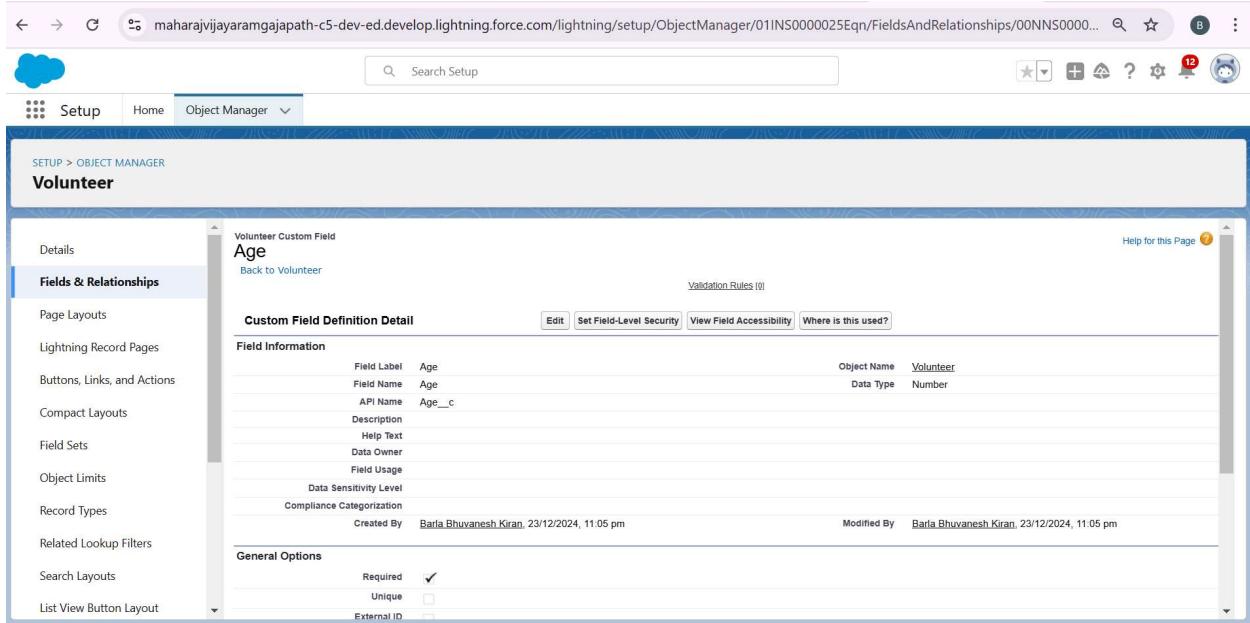
The screenshot shows the Salesforce Object Manager interface for the 'Volunteer' object. The 'Available On' custom field is selected. The 'Custom Field Definition Detail' section displays the following information:

Field Information	Value	Object Name	Data Type
Field Label	Available On	Volunteer	Date
Field Name	Available_On		
API Name	Available_On__c		
Description			
Help Text			
Data Owner			
Field Usage			
Data Sensitivity Level			
Compliance Categorization			
Created By	Barla Bhuvanesh Kiran, 23/12/2024, 11:05 pm	Modified By	Barla Bhuvanesh Kiran, 23/12/2024, 11:05 pm

**General Options**

- Required:
- Default Value:

## Age



The screenshot shows the Salesforce Object Manager interface for the 'Volunteer' object. The 'Age' custom field is selected. The 'Custom Field Definition Detail' section displays the following information:

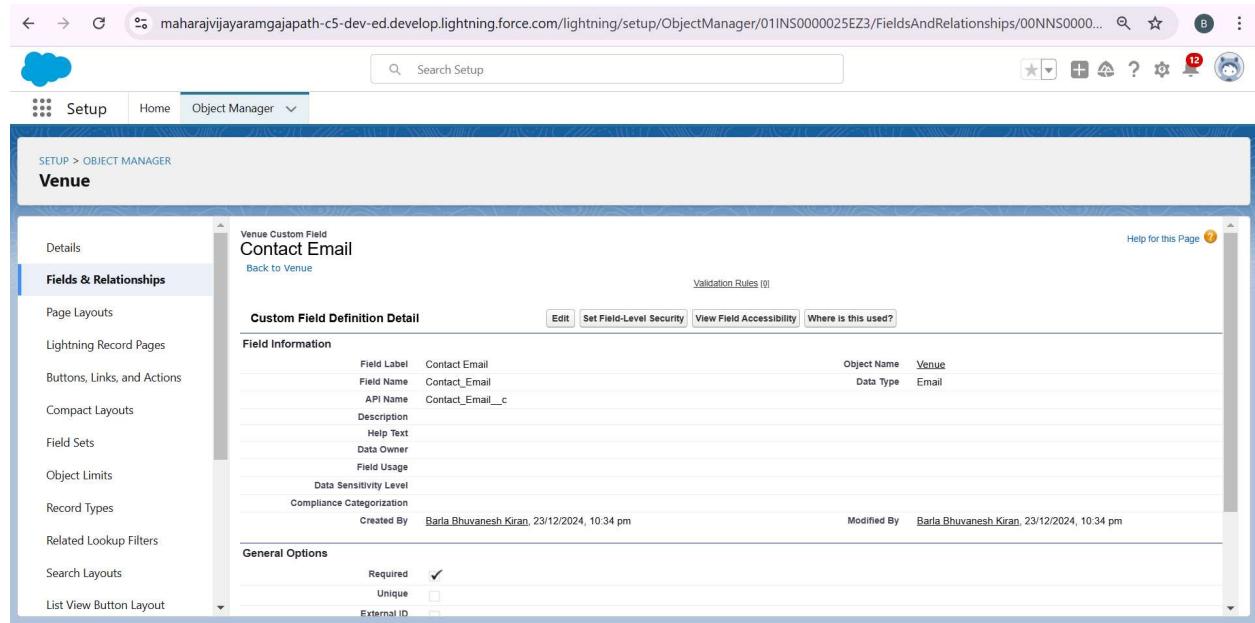
Field Information	Value	Object Name	Data Type
Field Label	Age	Volunteer	Number
Field Name	Age		
API Name	Age__c		
Description			
Help Text			
Data Owner			
Field Usage			
Data Sensitivity Level			
Compliance Categorization			
Created By	Barla Bhuvanesh Kiran, 23/12/2024, 11:05 pm	Modified By	Barla Bhuvanesh Kiran, 23/12/2024, 11:05 pm

**General Options**

- Required:
- Unique:
- External ID:

## Creation of Fields for the Venue Object

### Contact Email

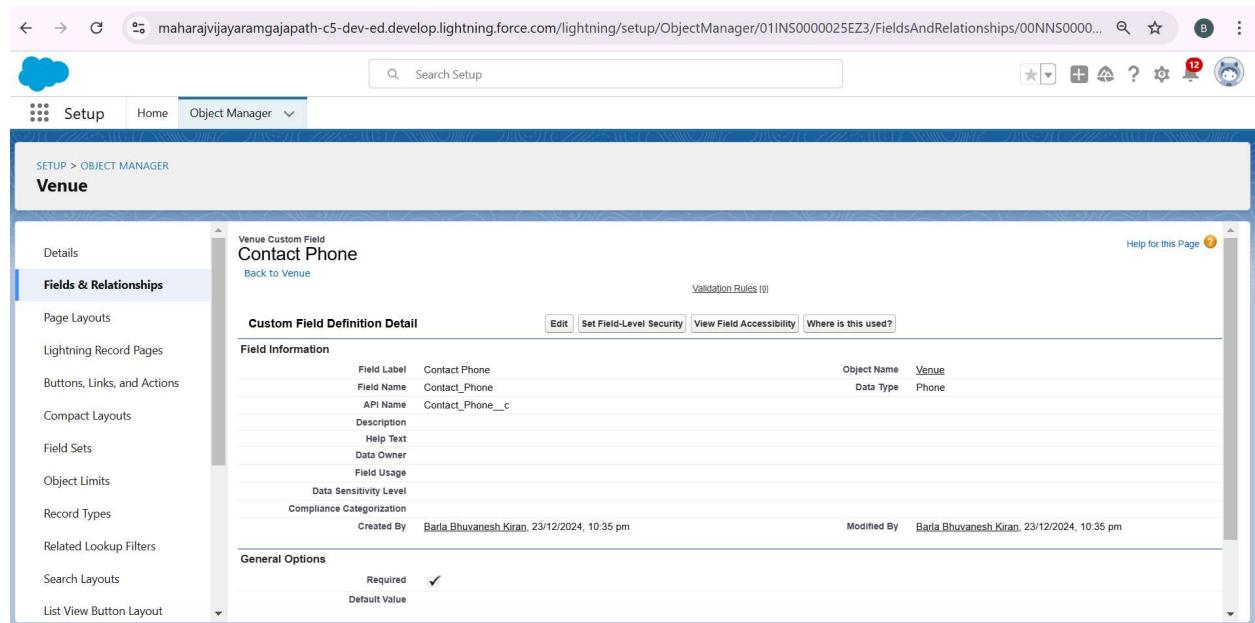


The screenshot shows the Salesforce Object Manager interface for creating a custom field named 'Contact Email' on the 'Venue' object.

**Custom Field Definition Detail:**

- Field Information:**
  - Field Label: Contact Email
  - Field Name: Contact\_Email
  - API Name: Contact\_Email\_c
  - Description: Help Text
  - Data Owner: Field Usage
  - Data Sensitivity Level: Data Sensitivity Level
  - Compliance Categorization: Created By: Barla Bhuvanesh Kiran, 23/12/2024, 10:34 pm
  - Object Name: Venue
  - Data Type: Email
- General Options:**
  - Required:
  - Unique:
  - External ID:

### Contact Phone

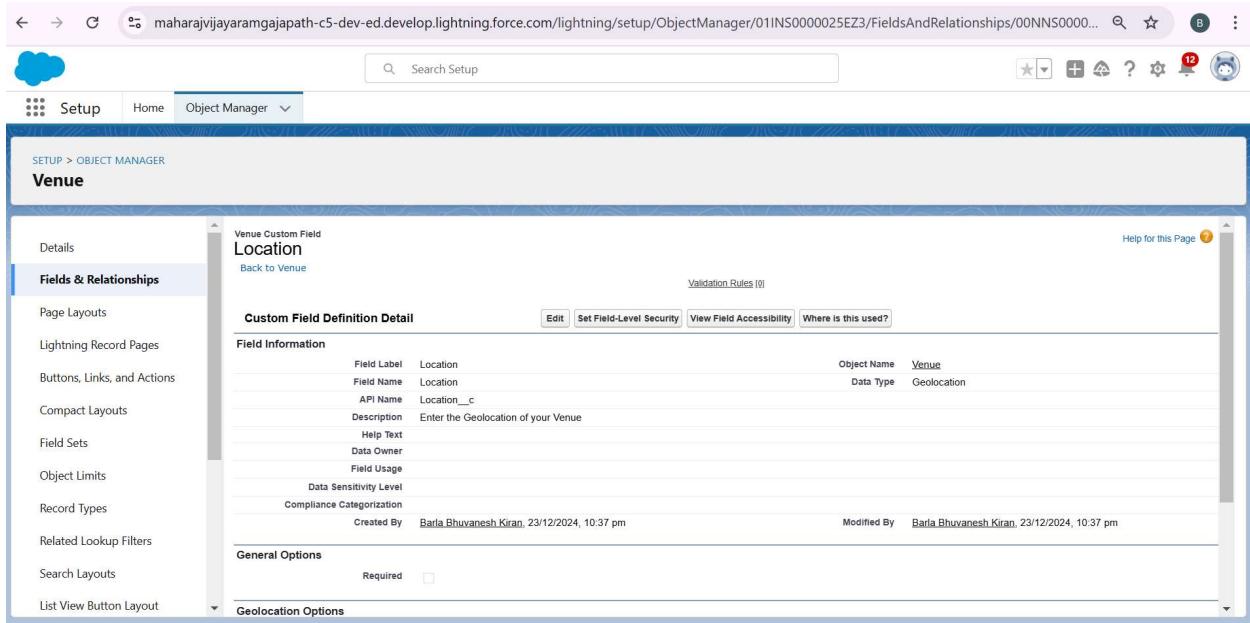


The screenshot shows the Salesforce Object Manager interface for creating a custom field named 'Contact Phone' on the 'Venue' object.

**Custom Field Definition Detail:**

- Field Information:**
  - Field Label: Contact Phone
  - Field Name: Contact\_Phone
  - API Name: Contact\_Phone\_c
  - Description: Help Text
  - Data Owner: Field Usage
  - Data Sensitivity Level: Data Sensitivity Level
  - Compliance Categorization: Created By: Barla Bhuvanesh Kiran, 23/12/2024, 10:35 pm
  - Object Name: Venue
  - Data Type: Phone
- General Options:**
  - Required:
  - Default Value:

## Location

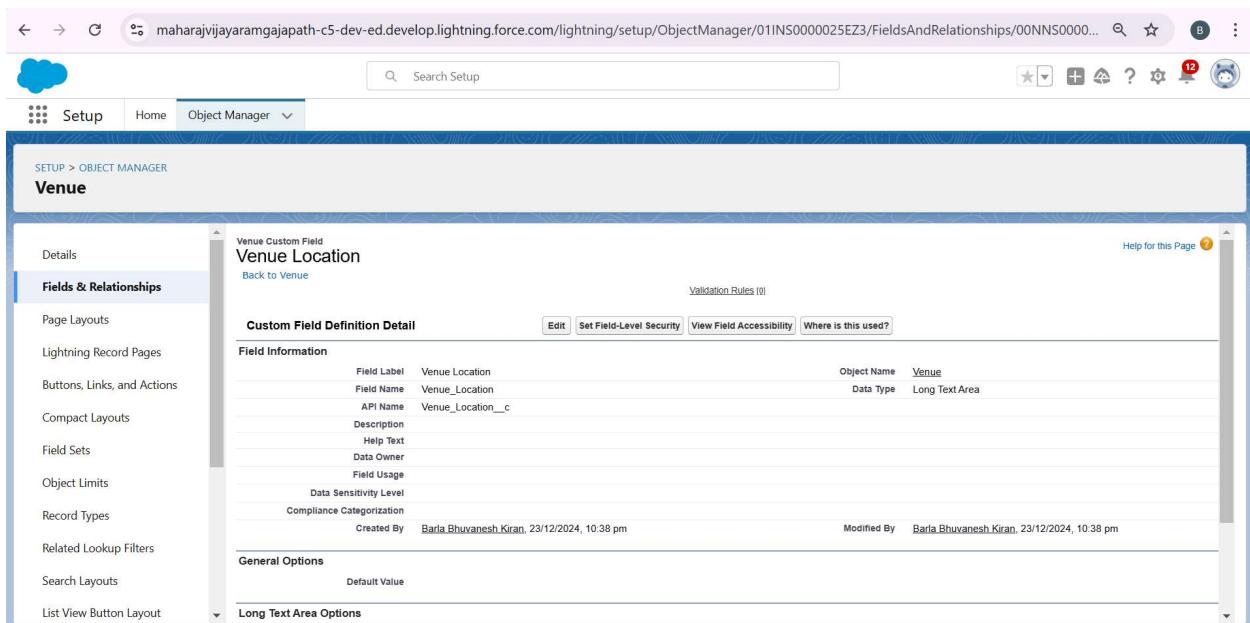


The screenshot shows the Salesforce Object Manager interface for the 'Venue' object. The 'Fields & Relationships' tab is selected. A custom field named 'Location' is being edited. The field information includes:

- Field Label:** Location
- Field Name:** Location
- API Name:** Location\_c
- Description:** Enter the Geolocation of your Venue
- Object Name:** Venue
- Data Type:** Geolocation
- Help Text:** (empty)
- Data Owner:** (empty)
- Field Usage:** (empty)
- Data Sensitivity Level:** (empty)
- Compliance Categorization:** (empty)
- Created By:** Barla Bhuvanesh Kiran, 23/12/2024, 10:37 pm
- Modified By:** Barla Bhuvanesh Kiran, 23/12/2024, 10:37 pm

General Options include 'Required' (unchecked). The 'Geolocation Options' section is collapsed.

## Venue Location



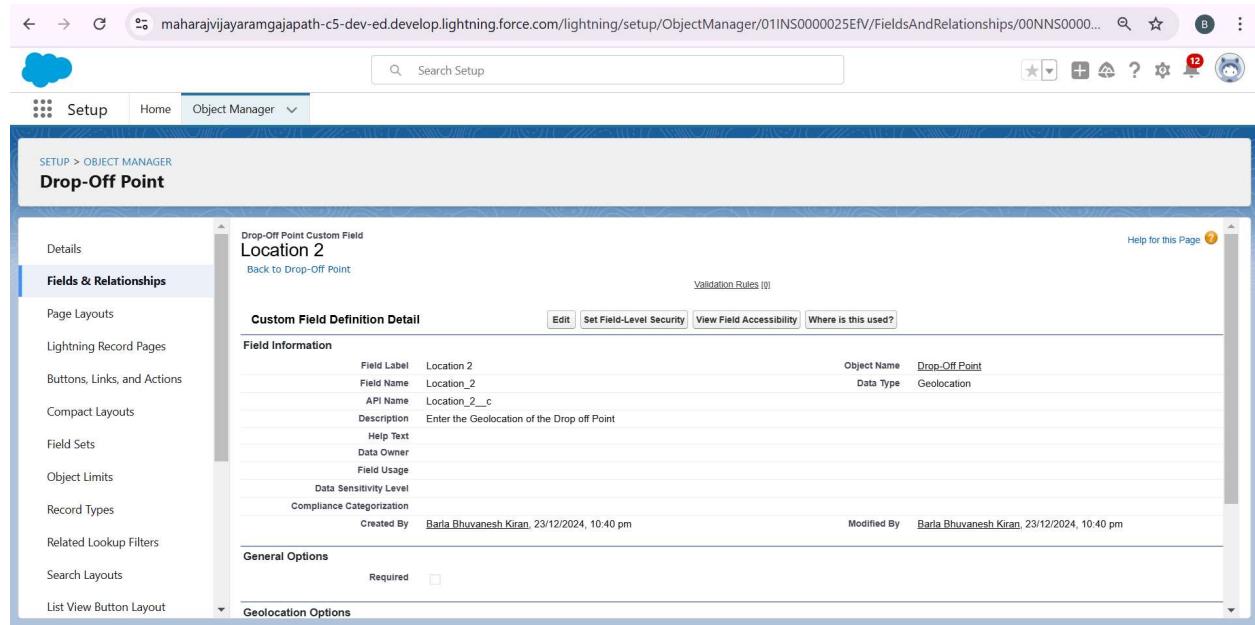
The screenshot shows the Salesforce Object Manager interface for the 'Venue' object. The 'Fields & Relationships' tab is selected. A custom field named 'Venue Location' is being edited. The field information includes:

- Field Label:** Venue Location
- Field Name:** Venue\_Location
- API Name:** Venue\_Location\_c
- Description:** (empty)
- Object Name:** Venue
- Data Type:** Long Text Area
- Help Text:** (empty)
- Data Owner:** (empty)
- Field Usage:** (empty)
- Data Sensitivity Level:** (empty)
- Compliance Categorization:** (empty)
- Created By:** Barla Bhuvanesh Kiran, 23/12/2024, 10:38 pm
- Modified By:** Barla Bhuvanesh Kiran, 23/12/2024, 10:38 pm

General Options include 'Default Value'. The 'Long Text Area Options' section is collapsed.

## Creation of Fields for the Drop-Off Point Object

### Location 2

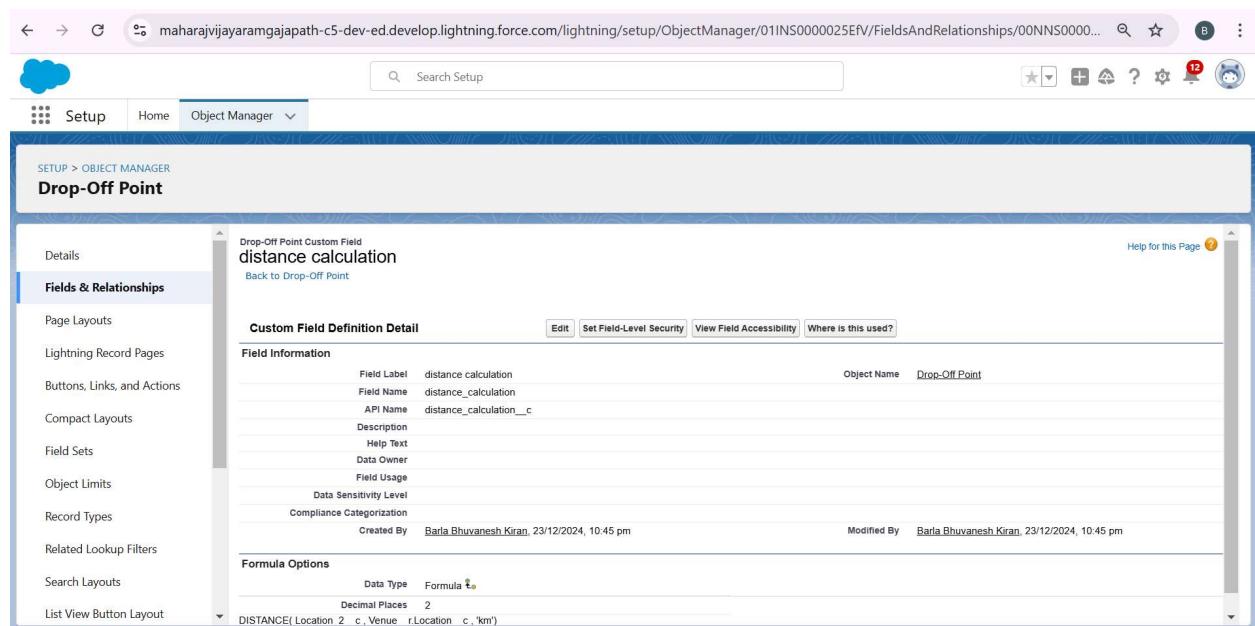


The screenshot shows the Salesforce Object Manager interface for creating a custom field named 'Location 2' on the 'Drop-Off Point' object.

**Custom Field Definition Detail:**

- Field Information:**
  - Field Label: Location 2
  - Field Name: Location\_2
  - API Name: Location\_2\_c
  - Description: Enter the Geolocation of the Drop off Point
  - Help Text: (empty)
  - Data Owner: (empty)
  - Field Usage: (empty)
  - Data Sensitivity Level: (empty)
  - Compliance Categorization: (empty)
  - Created By: Barla Bhuvanesh Kiran, 23/12/2024, 10:40 pm
  - Modified By: Barla Bhuvanesh Kiran, 23/12/2024, 10:40 pm
- General Options:**
  - Required:
- Geolocation Options:** (This section is collapsed)

### distance calculation

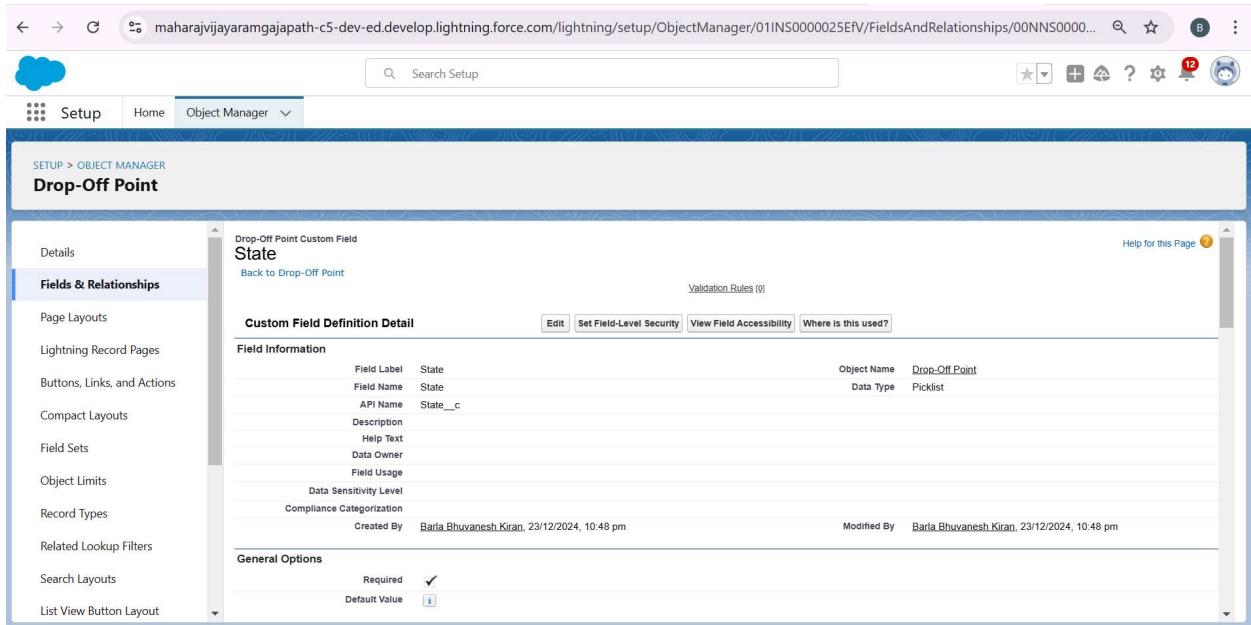


The screenshot shows the Salesforce Object Manager interface for creating a formula field named 'distance calculation' on the 'Drop-Off Point' object.

**Custom Field Definition Detail:**

- Field Information:**
  - Field Label: distance calculation
  - Field Name: distance\_calculation
  - API Name: distance\_calculation\_c
  - Description: (empty)
  - Help Text: (empty)
  - Data Owner: (empty)
  - Field Usage: (empty)
  - Data Sensitivity Level: (empty)
  - Compliance Categorization: (empty)
  - Created By: Barla Bhuvanesh Kiran, 23/12/2024, 10:45 pm
  - Modified By: Barla Bhuvanesh Kiran, 23/12/2024, 10:45 pm
- Formula Options:**
  - Data Type: Formula
  - Decimal Places: 2
  - Formula: DISTANCE( Location\_2\_c, Venue\_rLocation\_c, 'km' )

## State



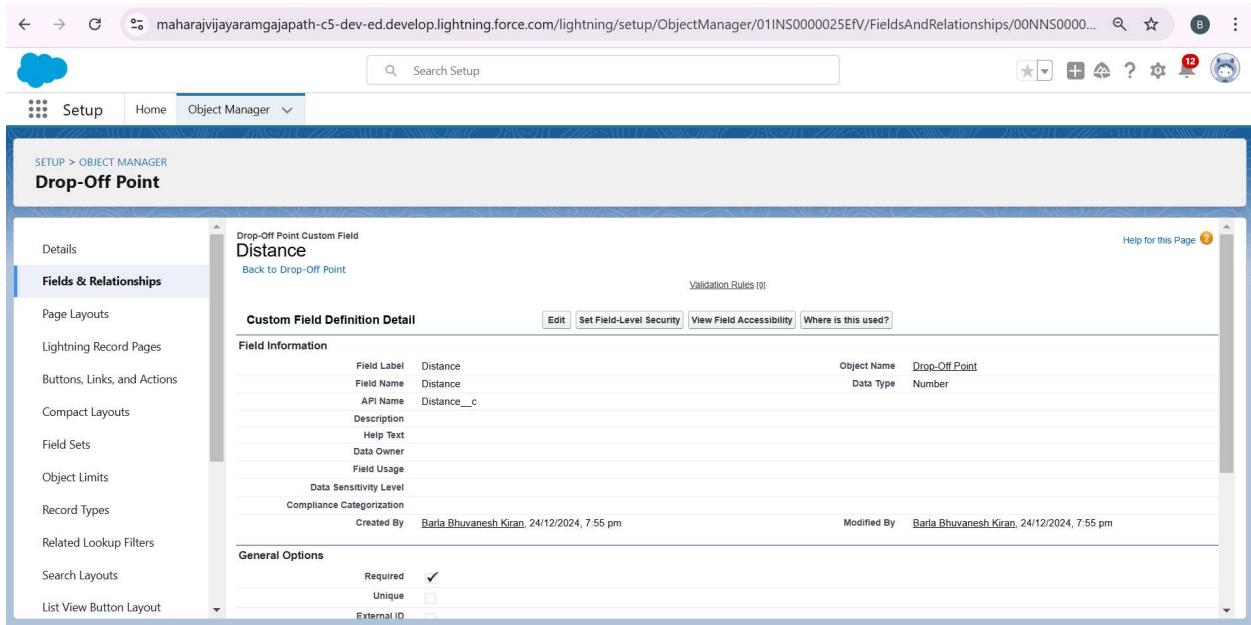
The screenshot shows the Salesforce Object Manager interface for creating a custom field. The object being modified is 'Drop-Off Point'. The custom field is named 'State'.

Field Information	Value
Field Label	State
Field Name	State
API Name	State__c
Description	
Help Text	
Data Owner	
Field Usage	
Data Sensitivity Level	
Compliance Categorization	
Created By	Baria Bhuvanesh Kiran, 23/12/2024, 10:48 pm
Modified By	Baria Bhuvanesh Kiran, 23/12/2024, 10:48 pm

**General Options:**

- Required:
- Default Value:

## Distance



The screenshot shows the Salesforce Object Manager interface for creating a custom field. The object being modified is 'Drop-Off Point'. The custom field is named 'Distance'.

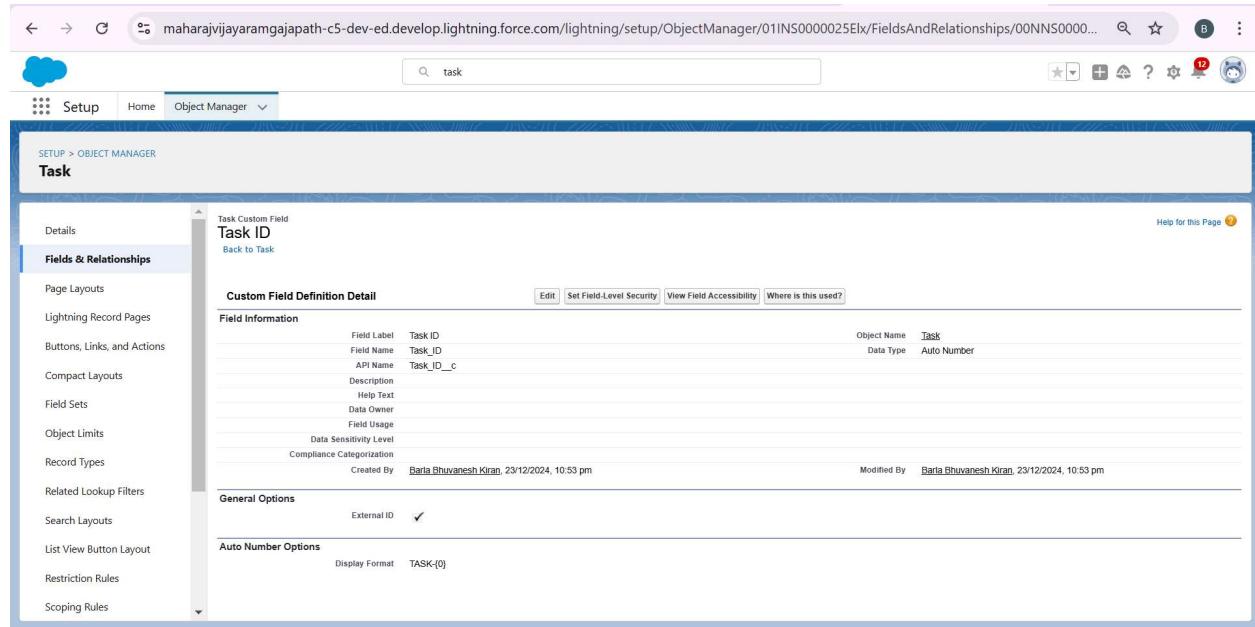
Field Information	Value
Field Label	Distance
Field Name	Distance
API Name	Distance__c
Description	
Help Text	
Data Owner	
Field Usage	
Data Sensitivity Level	
Compliance Categorization	
Created By	Baria Bhuvanesh Kiran, 24/12/2024, 7:55 pm
Modified By	Baria Bhuvanesh Kiran, 24/12/2024, 7:55 pm

**General Options:**

- Required:
- Unique:
- External ID:

## Creation of Fields for the Task Object

### Task ID



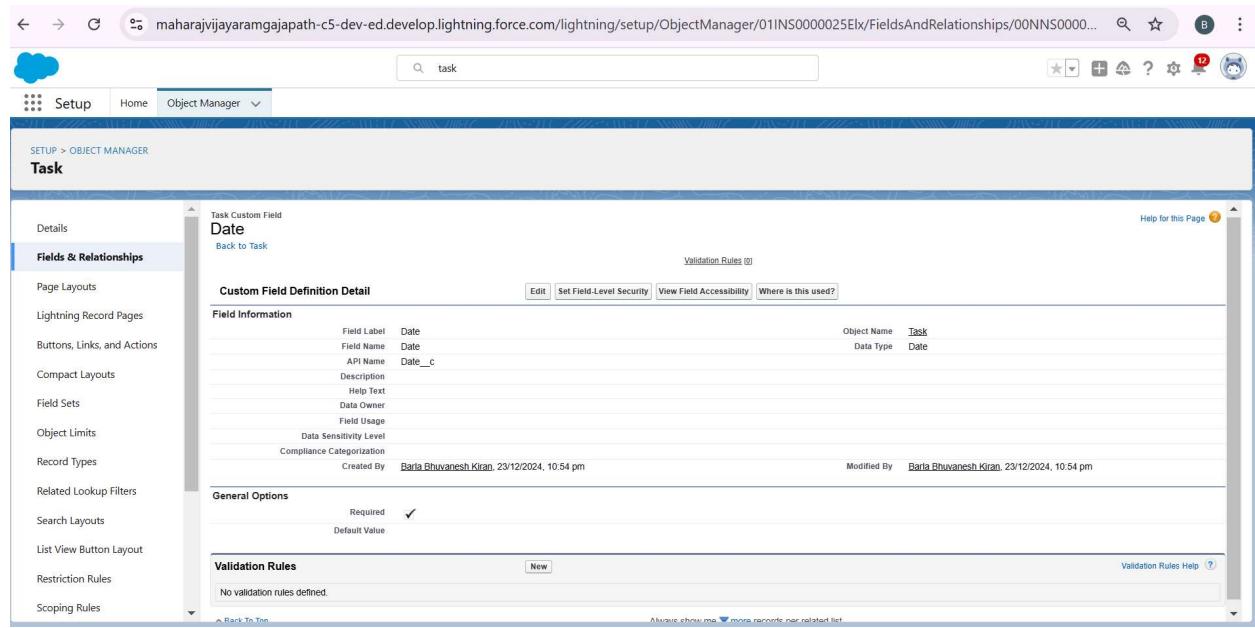
The screenshot shows the Salesforce Object Manager interface for creating a custom field named 'Task ID' on the 'Task' object.

**Custom Field Definition Detail:**

- Field Information:**
  - Field Label: Task ID
  - Field Name: Task\_ID
  - API Name: Task\_ID\_c
  - Description: Help Text
  - Data Owner: Barta Bhuvanesh Kiran
  - Object Name: Task
  - Data Type: Auto Number
- General Options:**
  - External ID: ✓
- Auto Number Options:**
  - Display Format: TASK-{0}

**Created By:** Barta Bhuvanesh Kiran, 23/12/2024, 10:53 pm    **Modified By:** Barta Bhuvanesh Kiran, 23/12/2024, 10:53 pm

### Date



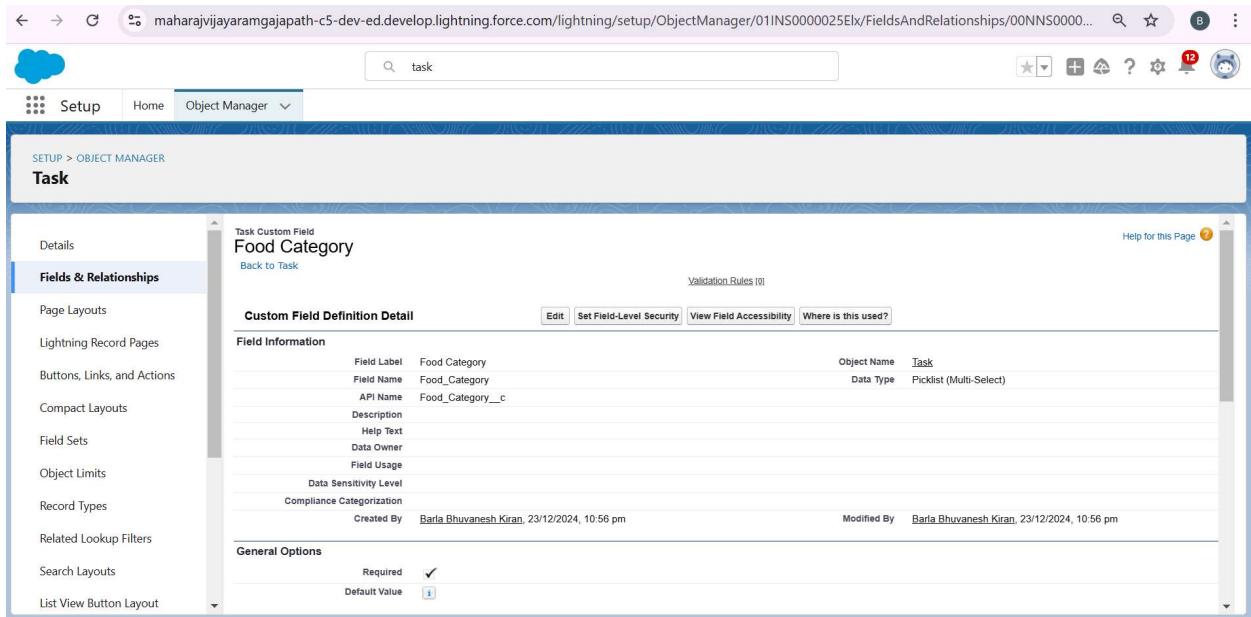
The screenshot shows the Salesforce Object Manager interface for creating a custom field named 'Date' on the 'Task' object.

**Custom Field Definition Detail:**

- Field Information:**
  - Field Label: Date
  - Field Name: Date
  - API Name: Date\_c
  - Description: Help Text
  - Data Owner: Barta Bhuvanesh Kiran
  - Object Name: Task
  - Data Type: Date
- General Options:**
  - Required: ✓
  - Default Value:
- Validation Rules:** No validation rules defined.

**Created By:** Barta Bhuvanesh Kiran, 23/12/2024, 10:54 pm    **Modified By:** Barta Bhuvanesh Kiran, 23/12/2024, 10:54 pm

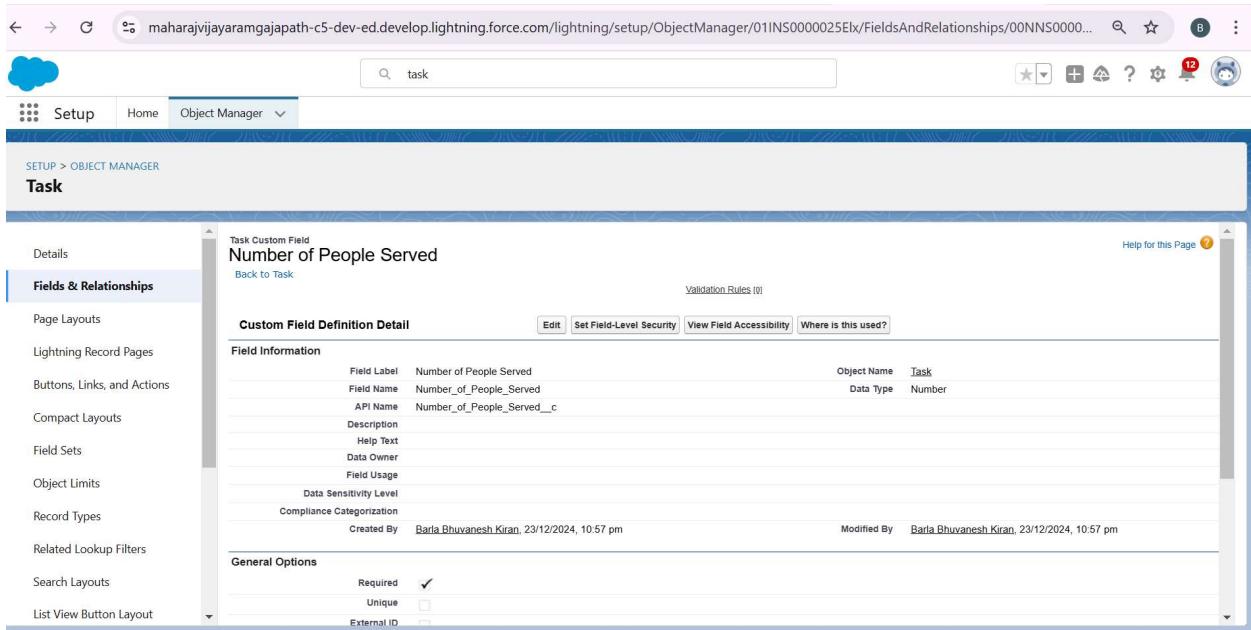
## Food Category



The screenshot shows the Salesforce Setup interface under the Object Manager. A new custom field named "Food Category" is being created for the "Task" object. The field is of type "Picklist (Multi-Select)" and has a single value: "Food Category". It is marked as required.

Field Label	Field Name	API Name	Object Name	Data Type
Food Category	Food_Category	Food_Category_c	Task	Picklist (Multi-Select)

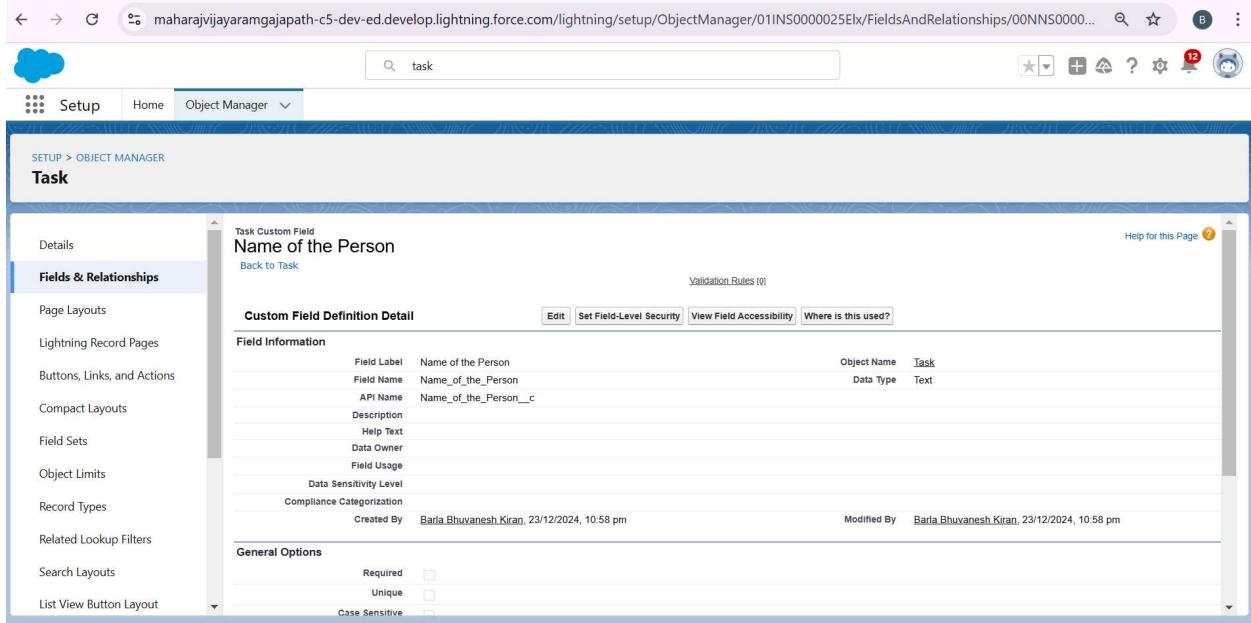
## Number of People Served



The screenshot shows the Salesforce Setup interface under the Object Manager. A new custom field named "Number of People Served" is being created for the "Task" object. The field is of type "Number" and has a single value: "Number of People Served". It is marked as required.

Field Label	Field Name	API Name	Object Name	Data Type
Number of People Served	Number_of_People_Served	Number_of_People_Served_c	Task	Number

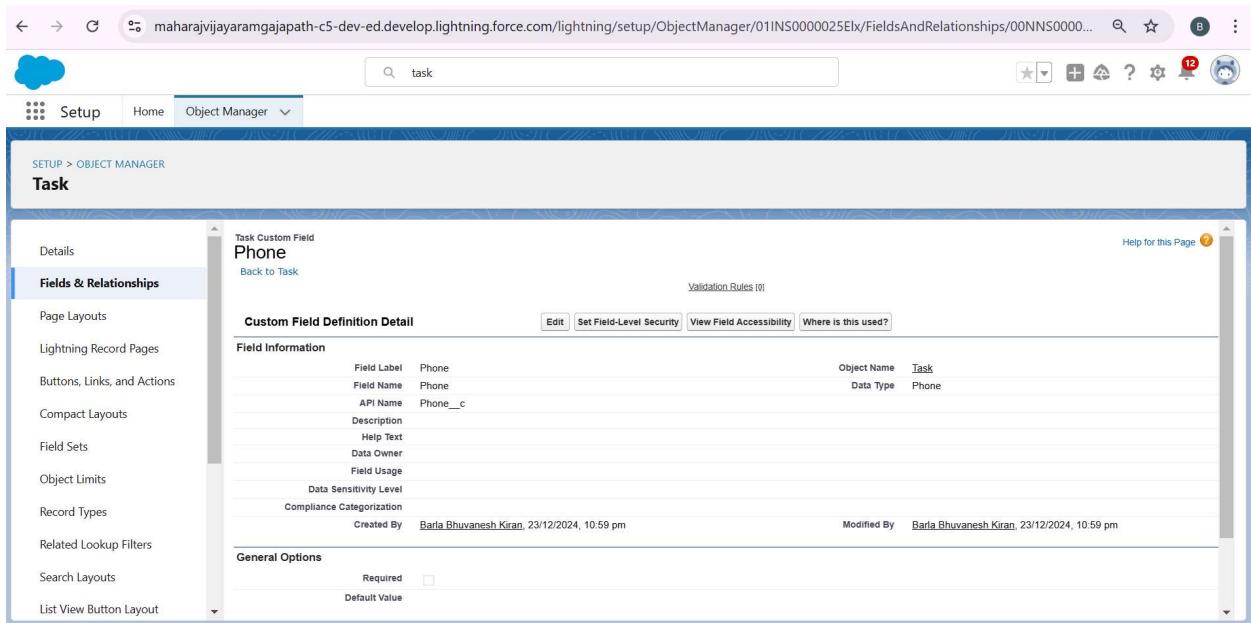
## Name of the person



The screenshot shows the Salesforce Object Manager interface for the Task object. A custom field named "Name of the Person" has been created. The field details are as follows:

- Field Label:** Name of the Person
- Field Name:** Name\_of\_the\_Person
- API Name:** Name\_of\_the\_Person\_c
- Description:** (empty)
- Help Text:** (empty)
- Data Owner:** (empty)
- Field Usage:** (empty)
- Data Sensitivity Level:** (empty)
- Compliance Categorization:** (empty)
- Created By:** Barla Bhuvanesh Kiran, 23/12/2024, 10:58 pm
- Modified By:** Barla Bhuvanesh Kiran, 23/12/2024, 10:58 pm

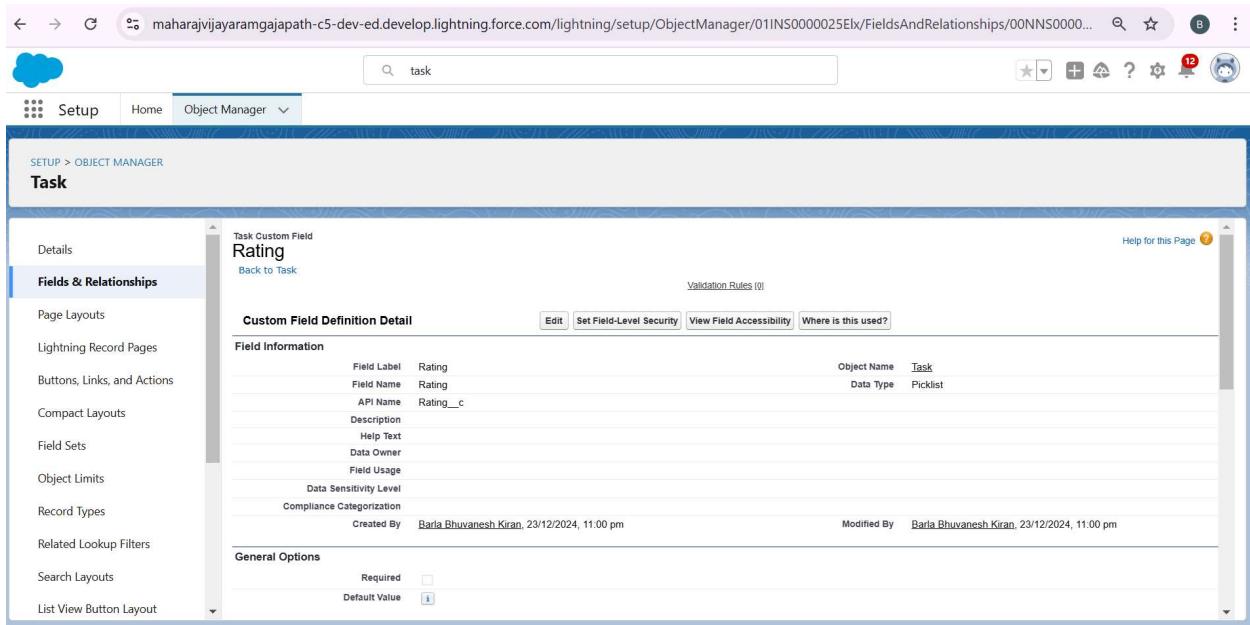
## Phone



The screenshot shows the Salesforce Object Manager interface for the Task object. A custom field named "Phone" has been created. The field details are as follows:

- Field Label:** Phone
- Field Name:** Phone
- API Name:** Phone\_c
- Description:** (empty)
- Help Text:** (empty)
- Data Owner:** (empty)
- Field Usage:** (empty)
- Data Sensitivity Level:** (empty)
- Compliance Categorization:** (empty)
- Created By:** Barla Bhuvanesh Kiran, 23/12/2024, 10:59 pm
- Modified By:** Barla Bhuvanesh Kiran, 23/12/2024, 10:59 pm

## Rating



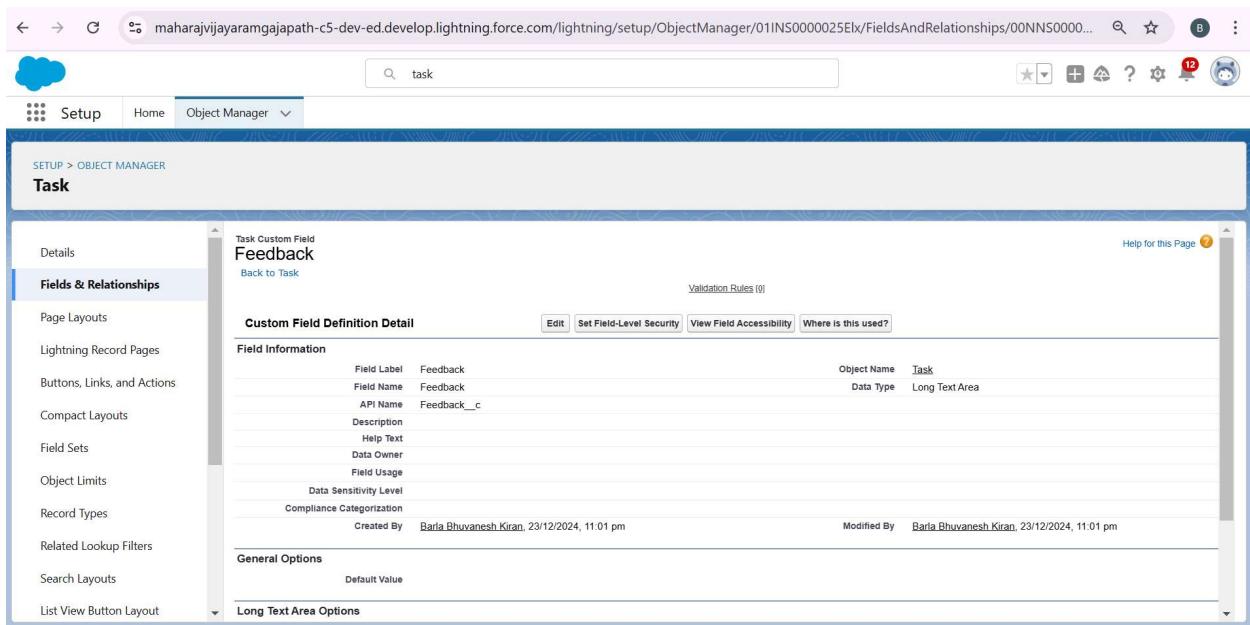
The screenshot shows the Salesforce Object Manager interface for the Task object. On the left, a sidebar lists various layout types: Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, and List View Button Layout. The main content area displays the 'Task Custom Field Rating' configuration. The 'Field Information' section shows the following details:

Field Label	Rating	Object Name	Task
Field Name	Rating	Data Type	Picklist
API Name	Rating_c		
Description			
Help Text			
Data Owner			
Field Usage			
Data Sensitivity Level			
Compliance Categorization			

Created By: Barla Bhuvanesh Kiran, 23/12/2024, 11:00 pm      Modified By: Barla Bhuvanesh Kiran, 23/12/2024, 11:00 pm

The 'General Options' section includes 'Required' (unchecked) and 'Default Value' (unchecked).

## Feedback



The screenshot shows the Salesforce Object Manager interface for the Task object. On the left, a sidebar lists various layout types: Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, and List View Button Layout. The main content area displays the 'Task Custom Field Feedback' configuration. The 'Field Information' section shows the following details:

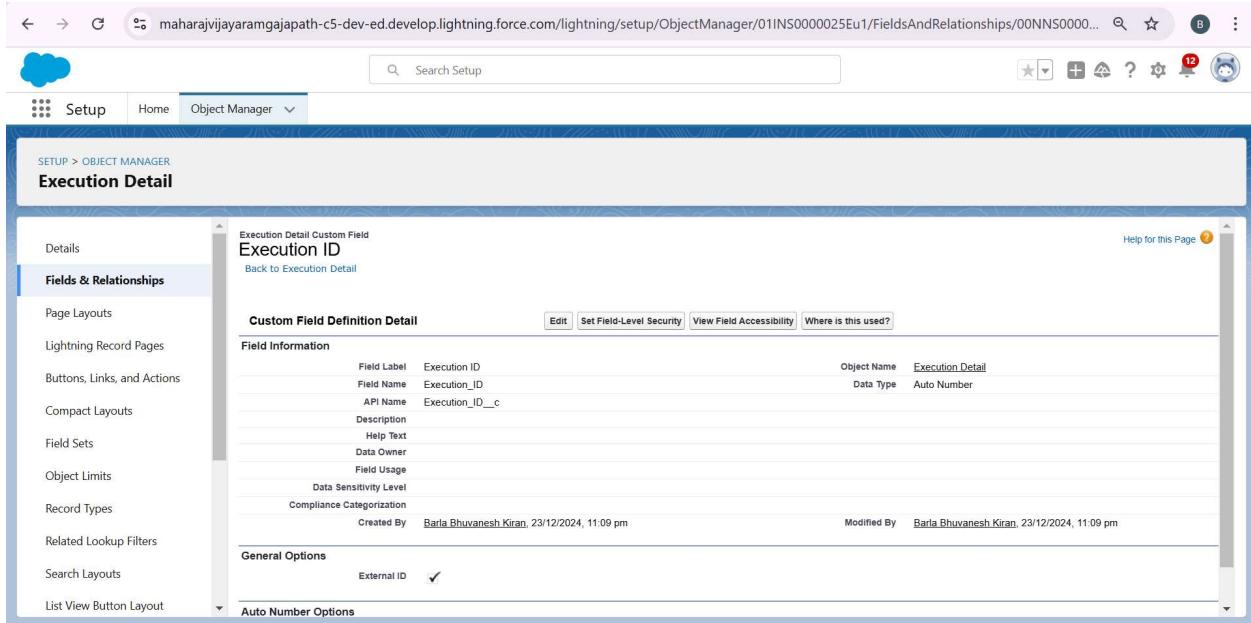
Field Label	Feedback	Object Name	Task
Field Name	Feedback	Data Type	Long Text Area
API Name	Feedback_c		
Description			
Help Text			
Data Owner			
Field Usage			
Data Sensitivity Level			
Compliance Categorization			

Created By: Barla Bhuvanesh Kiran, 23/12/2024, 11:01 pm      Modified By: Barla Bhuvanesh Kiran, 23/12/2024, 11:01 pm

The 'General Options' section includes 'Default Value' (unchecked). Below the main configuration, there is a 'Long Text Area Options' section.

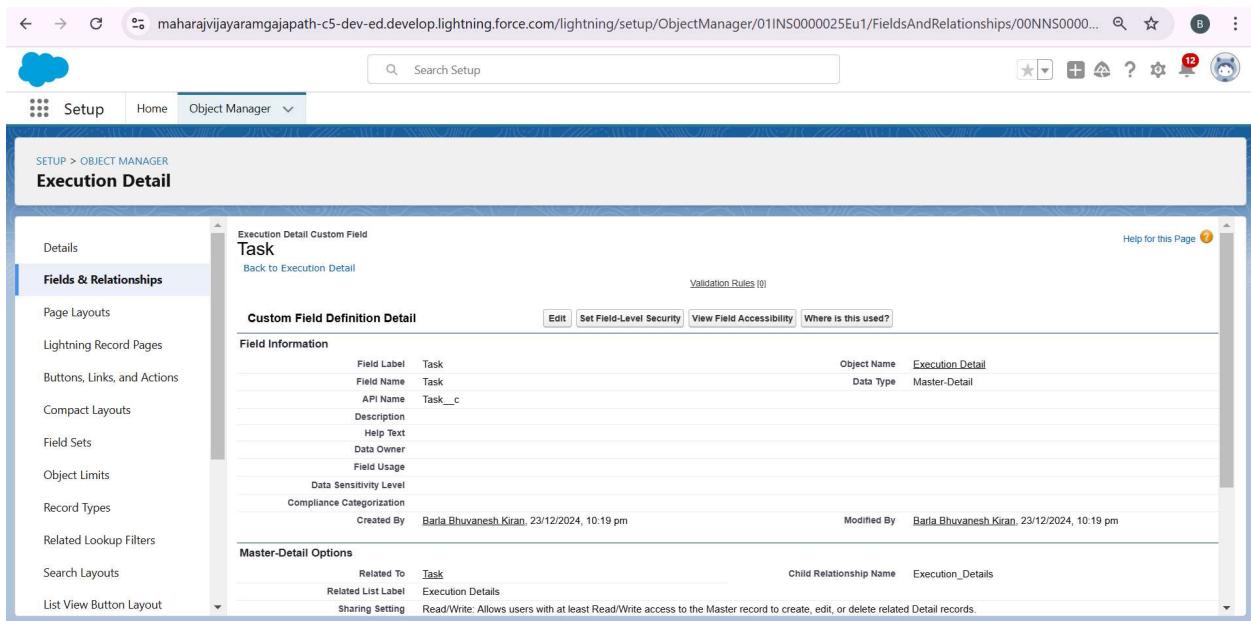
## Creation of Fields for the Execution Details Object

### Execution ID



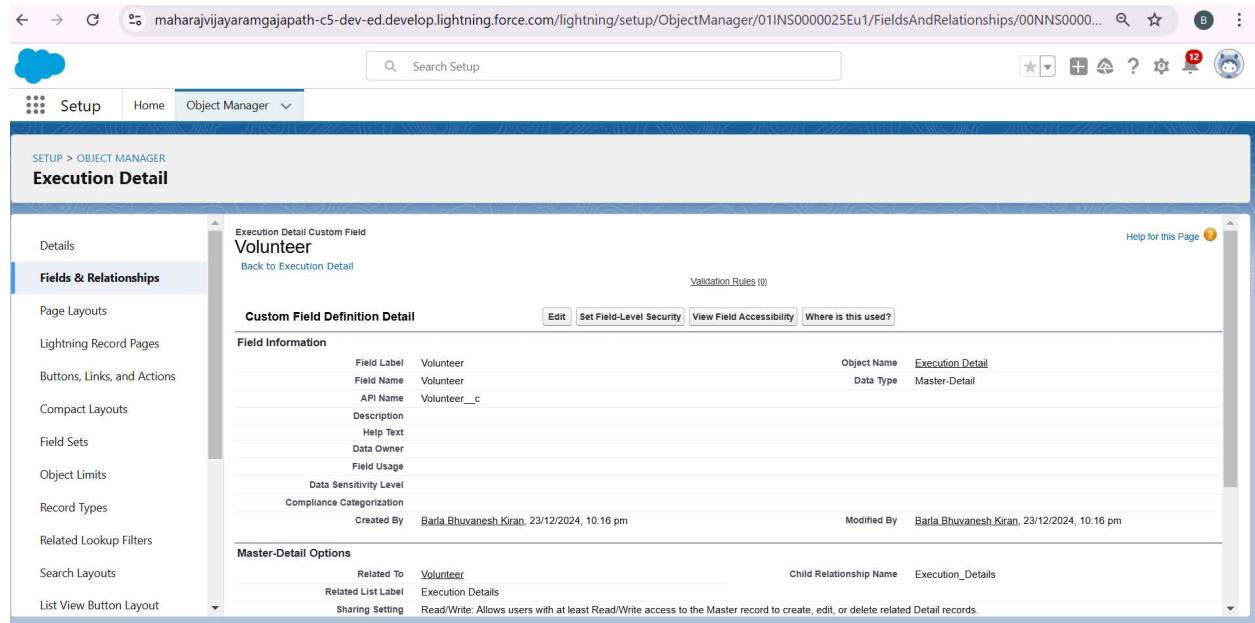
The screenshot shows the 'Execution Detail' object setup page. On the left, the 'Fields & Relationships' tab is selected. In the center, the 'Execution ID' custom field is being edited. The 'Field Information' section shows the field label as 'Execution ID', field name as 'Execution\_ID', and API name as 'Execution\_ID\_c'. The object name is 'Execution Detail' and the data type is 'Auto Number'. The 'General Options' section has 'External ID' checked. The 'Created By' and 'Modified By' fields show 'Barla Bhuvanesh Kiran' with the timestamp '23/12/2024, 11:09 pm'.

### Task



The screenshot shows the 'Execution Detail' object setup page. On the left, the 'Fields & Relationships' tab is selected. In the center, the 'Task' custom field is being edited. The 'Field Information' section shows the field label as 'Task', field name as 'Task', and API name as 'Task\_c'. The object name is 'Execution Detail' and the data type is 'Master-Detail'. The 'Master-Detail Options' section shows 'Related To' as 'Task', 'Related List Label' as 'Execution Details', and 'Sharing Setting' as 'ReadWrite: Allows users with at least Read/Write access to the Master record to create, edit, or delete related Detail records.' The 'Created By' and 'Modified By' fields show 'Barla Bhuvanesh Kiran' with the timestamp '23/12/2024, 10:19 pm'.

## Volunteer



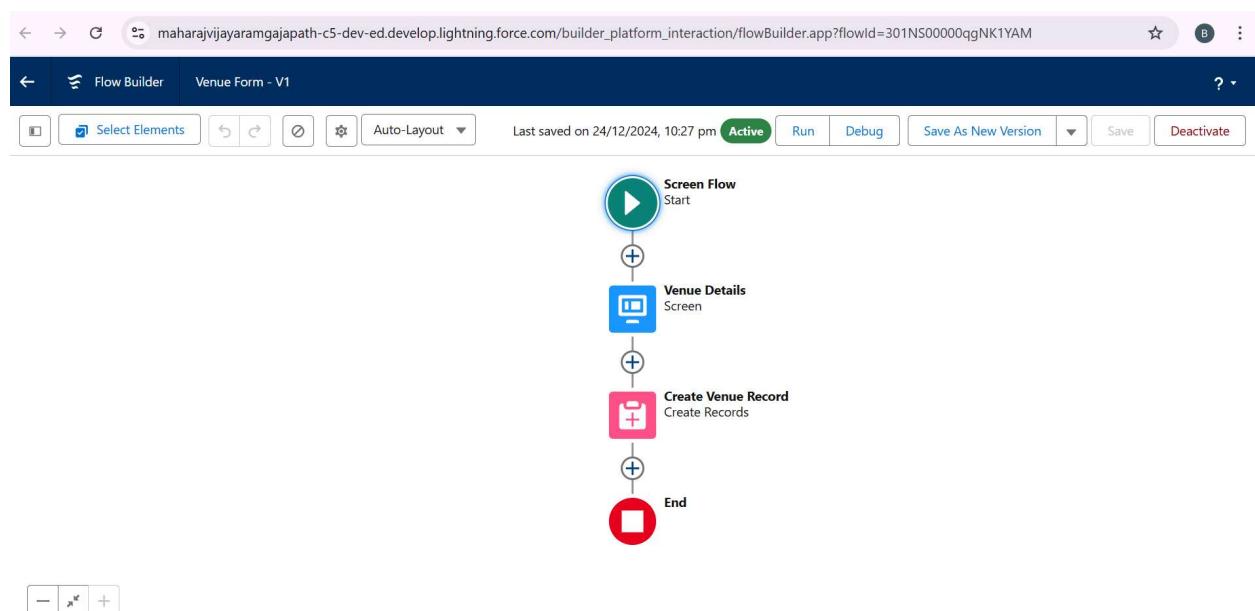
The screenshot shows the Salesforce Object Manager interface. The left sidebar has a 'Fields & Relationships' section selected. The main area displays the 'Execution Detail Custom Field' for the 'Volunteer' object. It shows the field's details: Field Label (Volunteer), Field Name (Volunteer), API Name (Volunteer\_c), and Data Type (Master-Detail). The object name is 'Execution\_Detail'. The field was created by 'Barla Bhuvanesh Kiran' on 23/12/2024, 10:16 pm, and modified by the same user at the same time. Under 'Master-Detail Options', it is related to 'Volunteer' with a child relationship name 'Execution\_Details'. The sharing setting is 'Read/Write: Allows users with at least Read/Write access to the Master record to create, edit, or delete related Detail records'.

## Flows

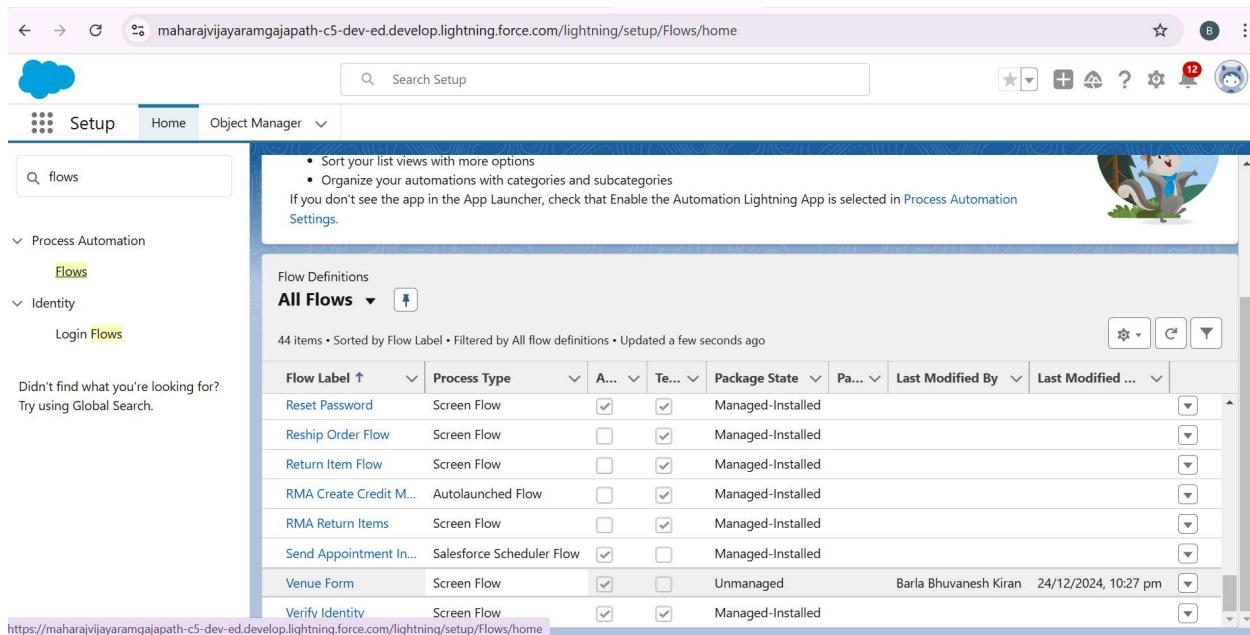
### What is a Flow?

Flows are automation tools that allow users to create complex business processes and workflows using a visual interface. They can automate tasks, guide users through steps, and integrate with other systems.

### Flow to Create a Record in Venue Object



The screenshot shows the Salesforce Flow Builder interface. The top bar includes buttons for 'Select Elements', 'Run', 'Debug', 'Save As New Version', 'Save', and 'Deactivate'. The flow itself consists of four main components connected sequentially: 'Screen Flow Start' (green play button icon), 'Venue Details Screen' (blue screen icon), 'Create Venue Record Create Records' (pink plus icon), and 'End' (red square icon). Each component has a '+' sign next to it, indicating they can be edited or removed. The flow was last saved on 24/12/2024, 10:27 pm.



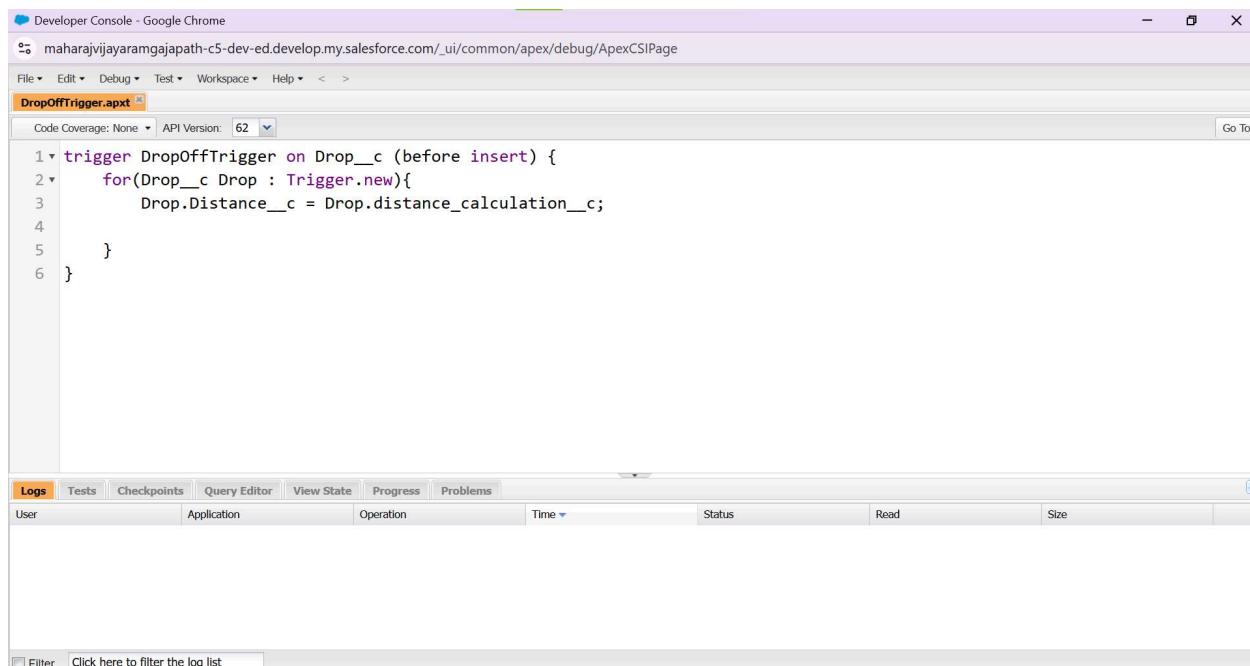
The screenshot shows the Salesforce Flow Definitions page. On the left, there's a sidebar with 'Process Automation' expanded, showing 'Flows' selected. Below it, 'Identity' is collapsed, showing 'Login Flows'. A message says ' Didn't find what you're looking for? Try using Global Search.' The main area is titled 'Flow Definitions' with a sub-section 'All Flows'. It displays a table with 44 items, sorted by Flow Label. The columns include Flow Label (sorted), Process Type, Active (checkbox), Test (checkbox), Package State, Last Modified By, and Last Modified Date. The table lists various flows like 'Reset Password', 'Reship Order Flow', etc.

## Trigger

### What is a Trigger?

A trigger is a piece of Apex code that executes before or after specific database events on objects, such as insertions, updates, or deletions. Triggers are used to perform custom actions or enforce business rules.

### Trigger Code



The screenshot shows the Salesforce Developer Console with the file 'DropOffTrigger.apxt' open. The code is as follows:

```

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

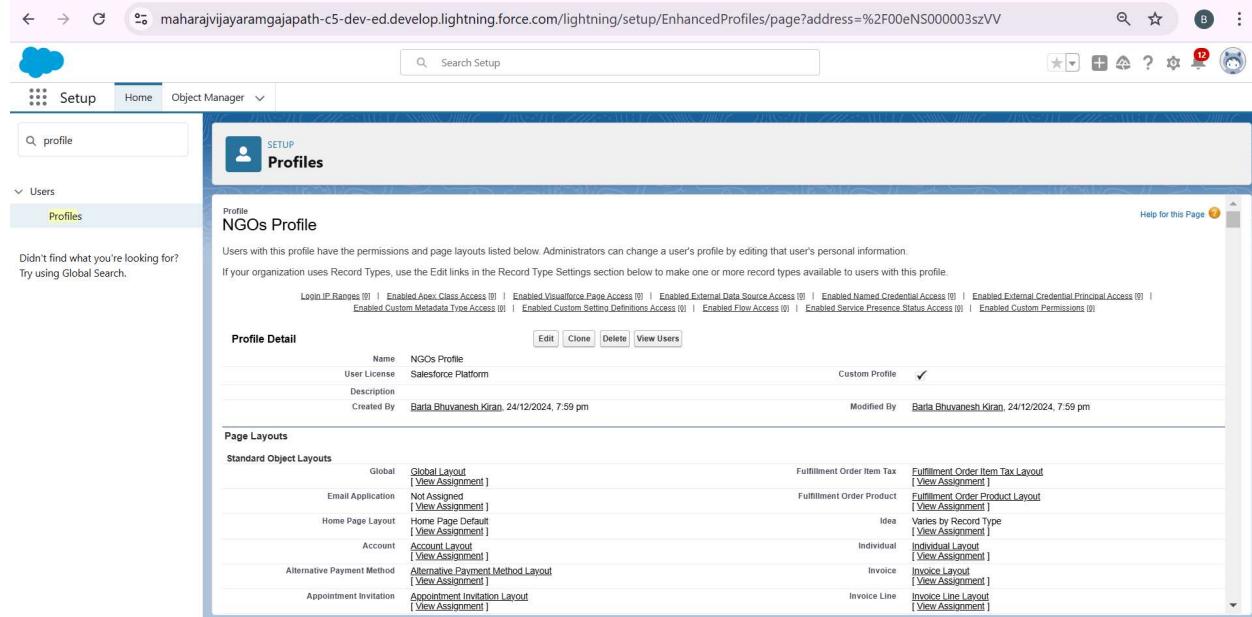
```

The developer console interface includes tabs for Logs, Tests, Checkpoints, Query Editor, View State, Progress, and Problems. At the bottom, there's a log viewer with a 'Filter' button.

## Profiles

### What is a Profile?

Profiles define a user's permissions and access settings, controlling what users can see and do within the application. They specify the objects, fields, and functions a user can access.

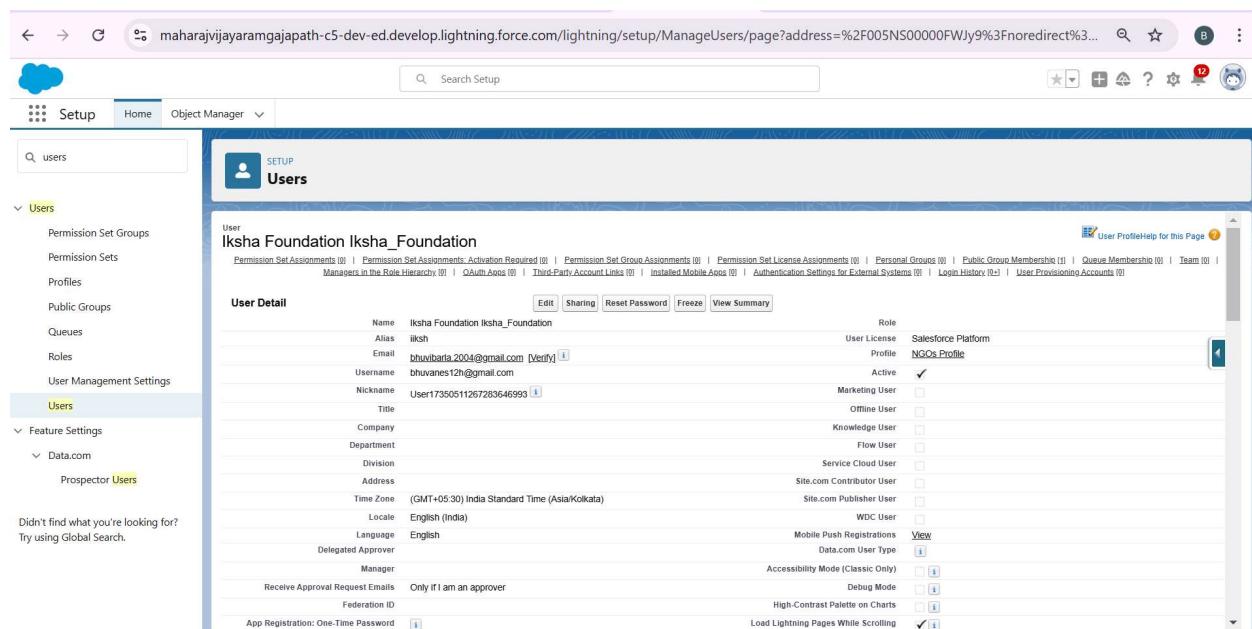


The screenshot shows the Salesforce Setup interface with the 'Profiles' page selected. The profile 'NGOs Profile' is displayed, which is based on the 'Salesforce Platform' license. The 'Profile Detail' section shows the profile name, license, and creation details. The 'Page Layouts' section lists various standard object layouts and their corresponding global or individual page assignments. For example, the 'Global' layout for 'Email Application' is assigned to 'View Assignment'. The 'Individual' layout for 'Account' is also listed.

## Users

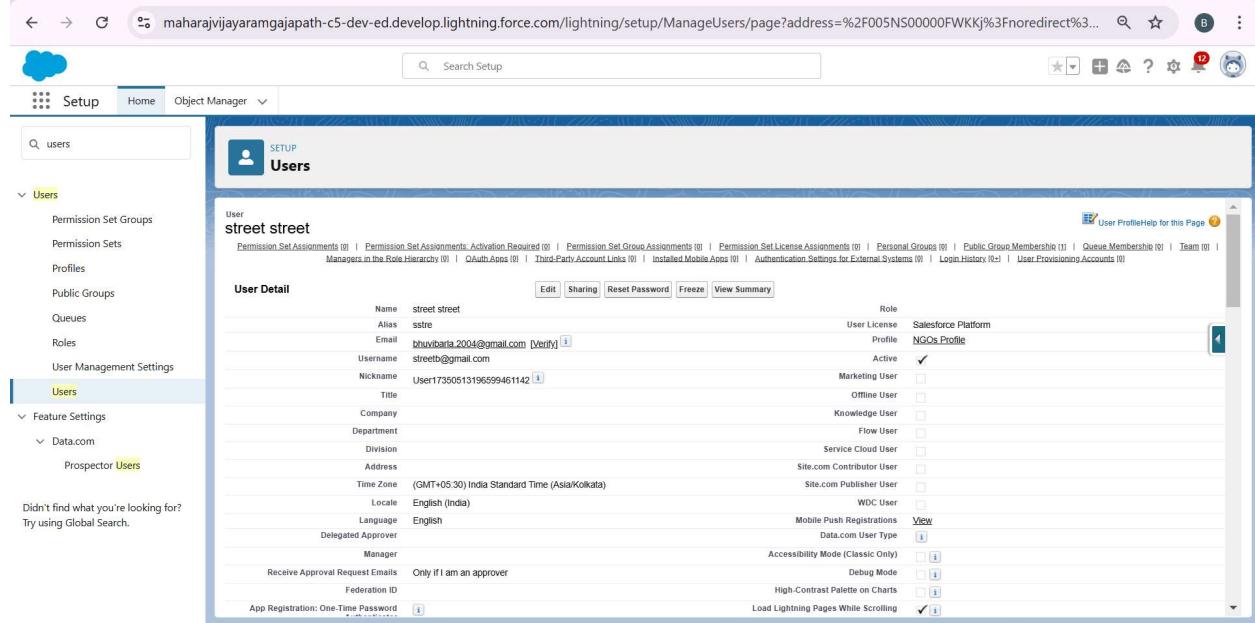
### What is a User?

Users are individuals who have login access to the Salesforce organization. Each user has a unique username, profile, and role, determining their access levels and permissions within the system. Iksha Foundation

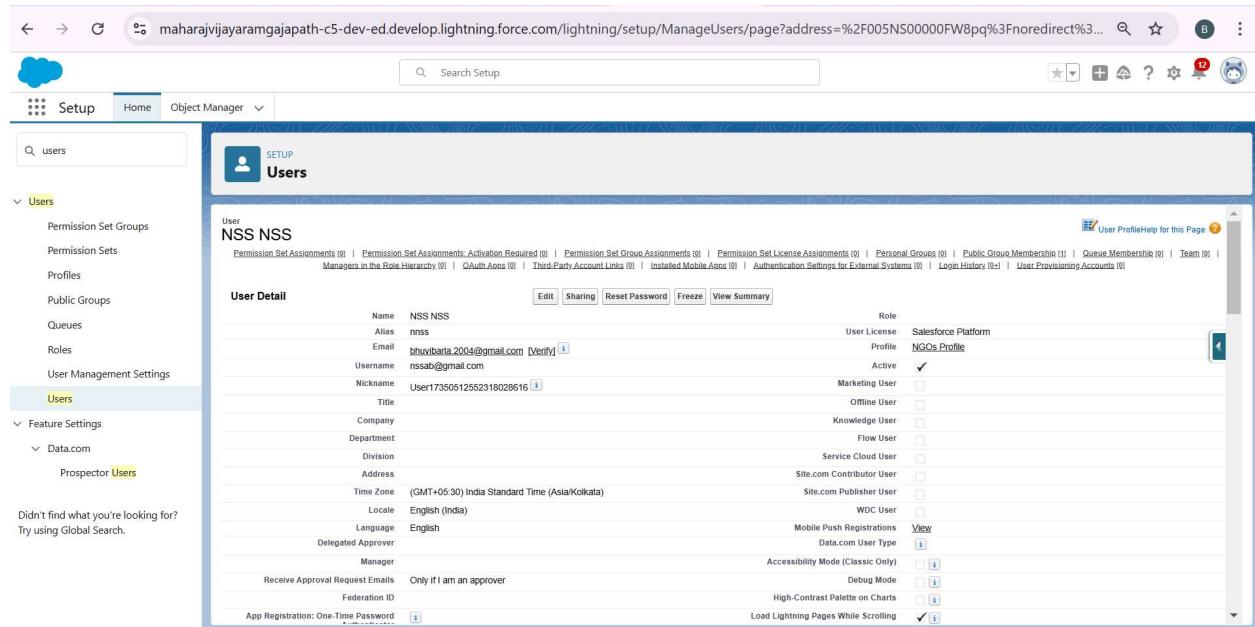


The screenshot shows the Salesforce Setup interface with the 'Users' page selected. The user 'Iksha Foundation Iksha\_Foundation' is displayed. The 'User Detail' section provides information about the user, including their name, alias, email, and various roles and profiles. The user is assigned to the 'NGOs Profile' and has the 'Active' status. The 'Role' section lists several roles such as 'Marketing User', 'Offline User', 'Knowledge User', etc. The 'Sharing' tab is selected, showing sharing rules and sharing settings for the user.

street



NSS



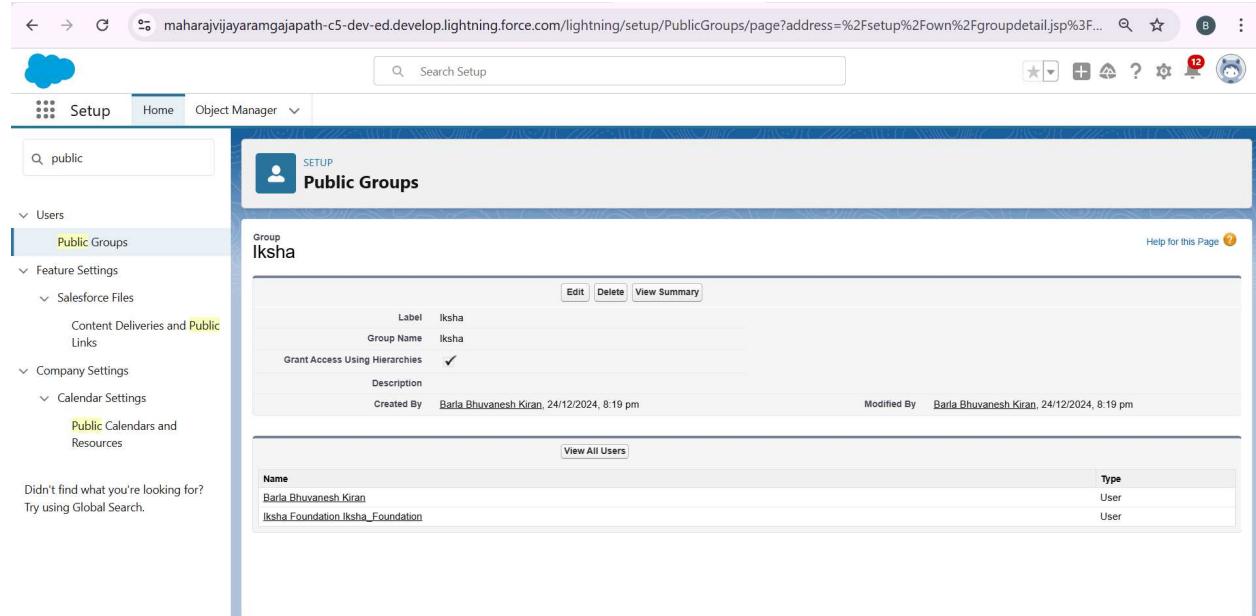
## Public Groups

### What is a Public Groups?

Public groups are collections of users, roles, and other groups that can be used to simplify sharing rules and access settings. They help manage data visibility and permissions across

multiple users.

## Iksha



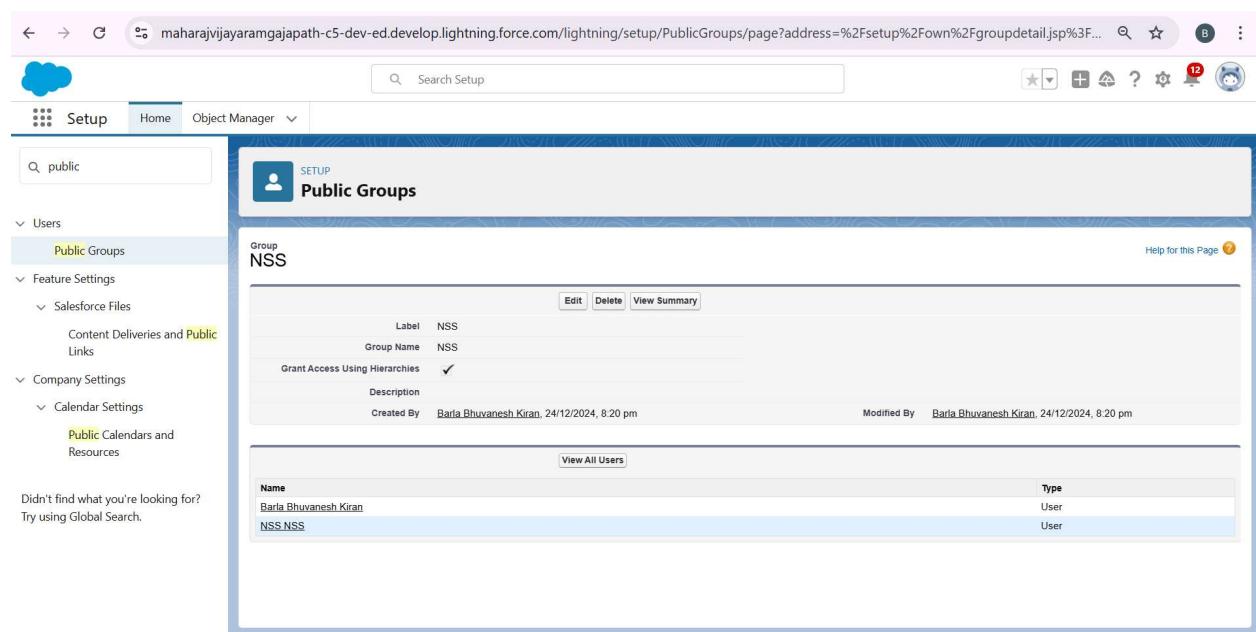
The screenshot shows the 'Public Groups' page in the Salesforce Setup interface. The group 'Iksha' is selected. The details shown are:

Label	Iksha
Group Name	Iksha
Grant Access Using Hierarchies	<input checked="" type="checkbox"/>
Description	
Created By	Barla Bhuvanesh Kiran, 24/12/2024, 8:19 pm
Modified By	Barla Bhuvanesh Kiran, 24/12/2024, 8:19 pm

Below the details, there is a table showing the users assigned to the group:

Name	Type
Barla Bhuvanesh Kiran	User
Iksha Foundation Iksha_Foundation	User

## NSS



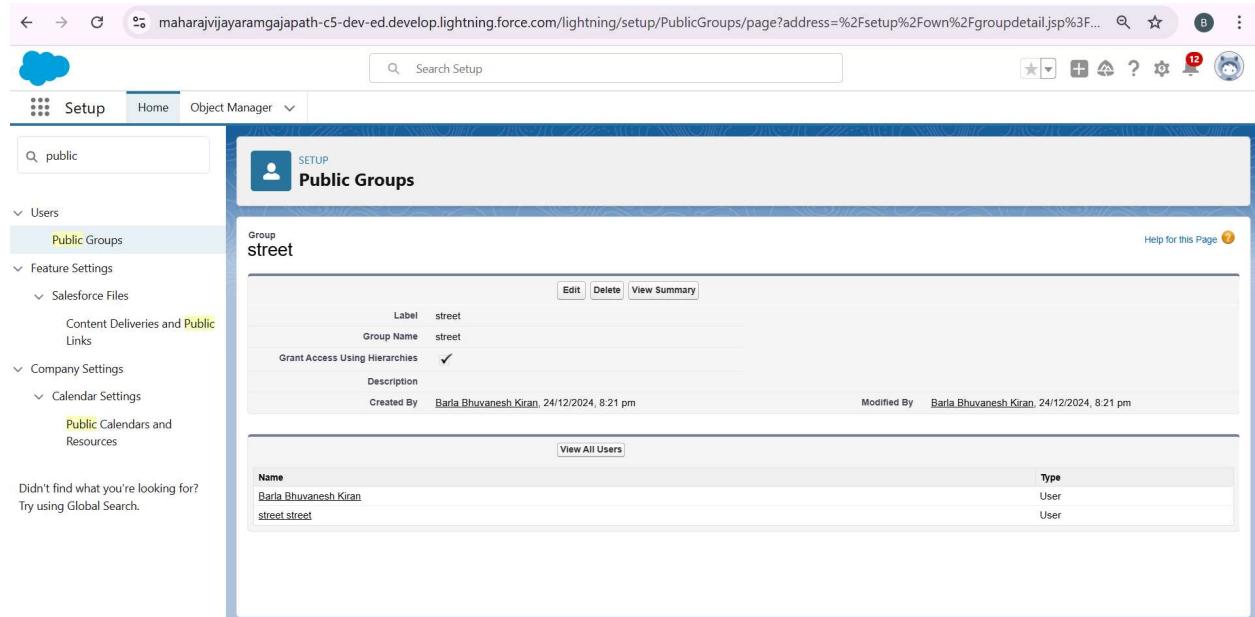
The screenshot shows the 'Public Groups' page in the Salesforce Setup interface. The group 'NSS' is selected. The details shown are:

Label	NSS
Group Name	NSS
Grant Access Using Hierarchies	<input checked="" type="checkbox"/>
Description	
Created By	Barla Bhuvanesh Kiran, 24/12/2024, 8:20 pm
Modified By	Barla Bhuvanesh Kiran, 24/12/2024, 8:20 pm

Below the details, there is a table showing the users assigned to the group:

Name	Type
Barla Bhuvanesh Kiran	User
NSS NSS	User

## street



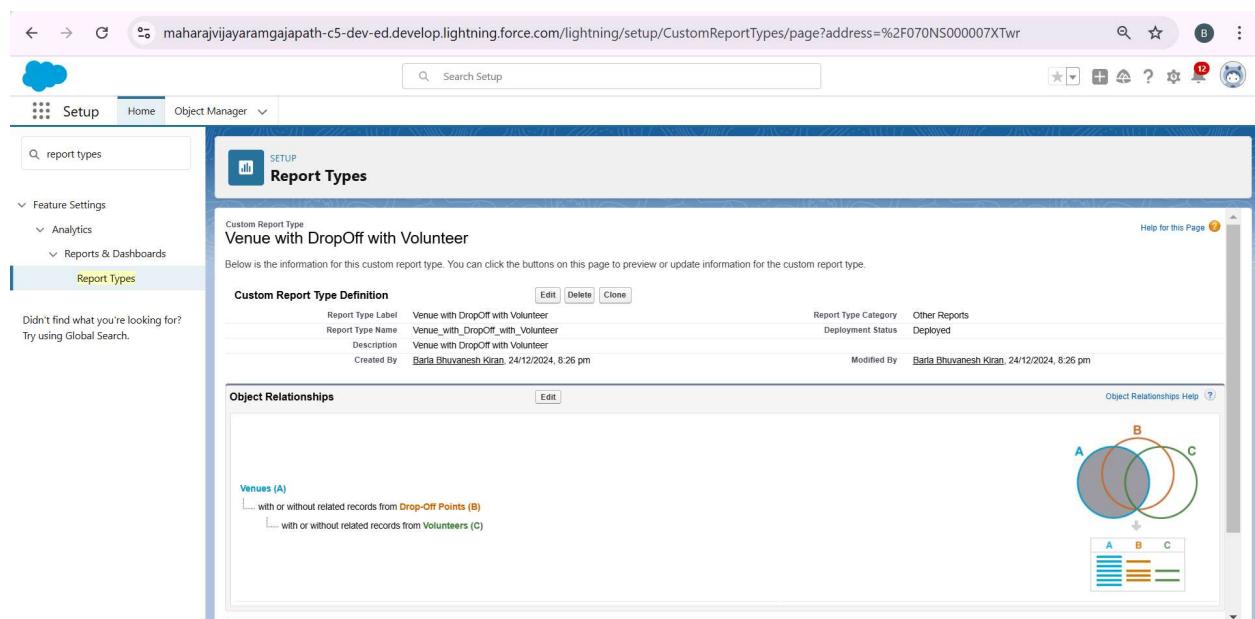
The screenshot shows the Salesforce Setup interface with the 'Public Groups' page open. A group named 'street' is selected, with its details displayed: Label (street), Group Name (street), and Grant Access Using Hierarchies checked. The group was created by Barla Bhuvanesh Kiran on 24/12/2024, 8:21 pm, and modified by the same user at the same time. Below the details, a table lists users assigned to the group, showing their names (Barla Bhuvanesh Kiran) and types (User).

## Report Types

### What is a Report Type?

Report types define the set of records and fields available for a report. They determine which objects, and their relationships can be included, allowing users to create customized reports based on specific criteria.

## Venue with DropOff with Volunteer

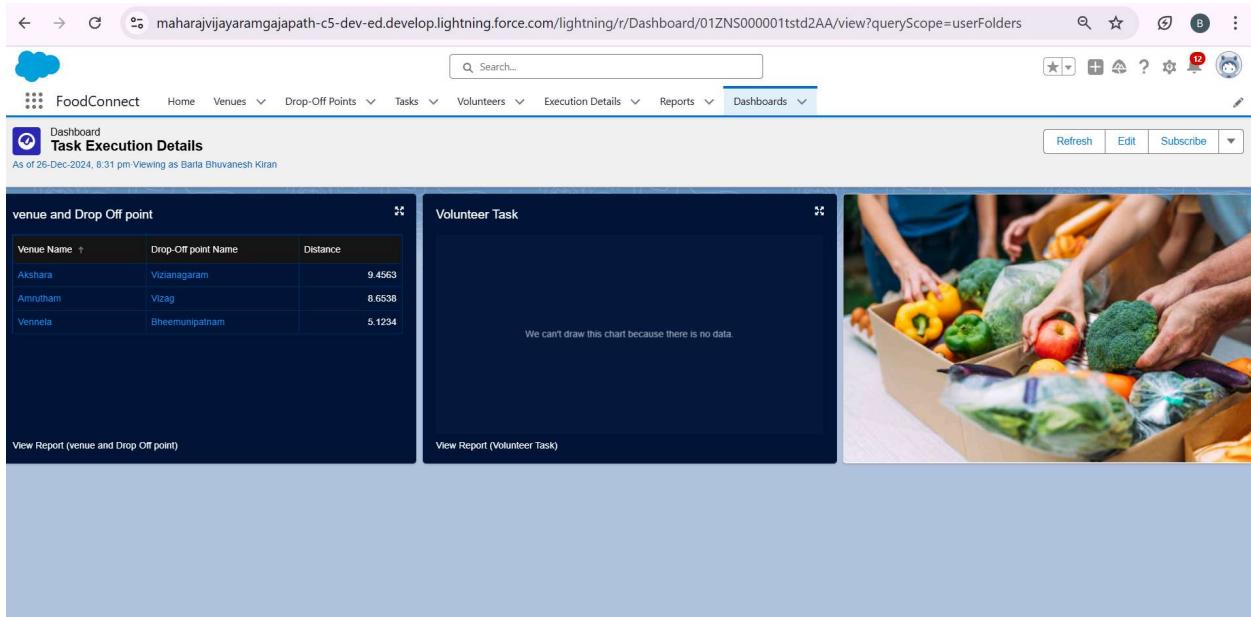


The screenshot shows the Salesforce Setup interface with the 'Custom Report Types' page open. A custom report type named 'Venue with DropOff with Volunteer' is selected, with its definition displayed: Report Type Label (Venue with DropOff with Volunteer), Report Type Name (Venue\_with\_DropOff\_with\_Volunteer), Description (Venue with DropOff with Volunteer), and Created By (Barla Bhuvanesh Kiran) on 24/12/2024, 8:26 pm. The report type is categorized under 'Other Reports' and has 'Deployed' status. Below the definition, the 'Object Relationships' section is shown, featuring a Venn diagram with three overlapping circles labeled A, B, and C, and a legend below it.

## Dashboards

### What is a Dashboard?

Dashboards are visual displays of key metrics and reports, providing a snapshot of business performance. They consist of multiple components like charts, graphs, and tables, offering insights and data visualization for decision-making.

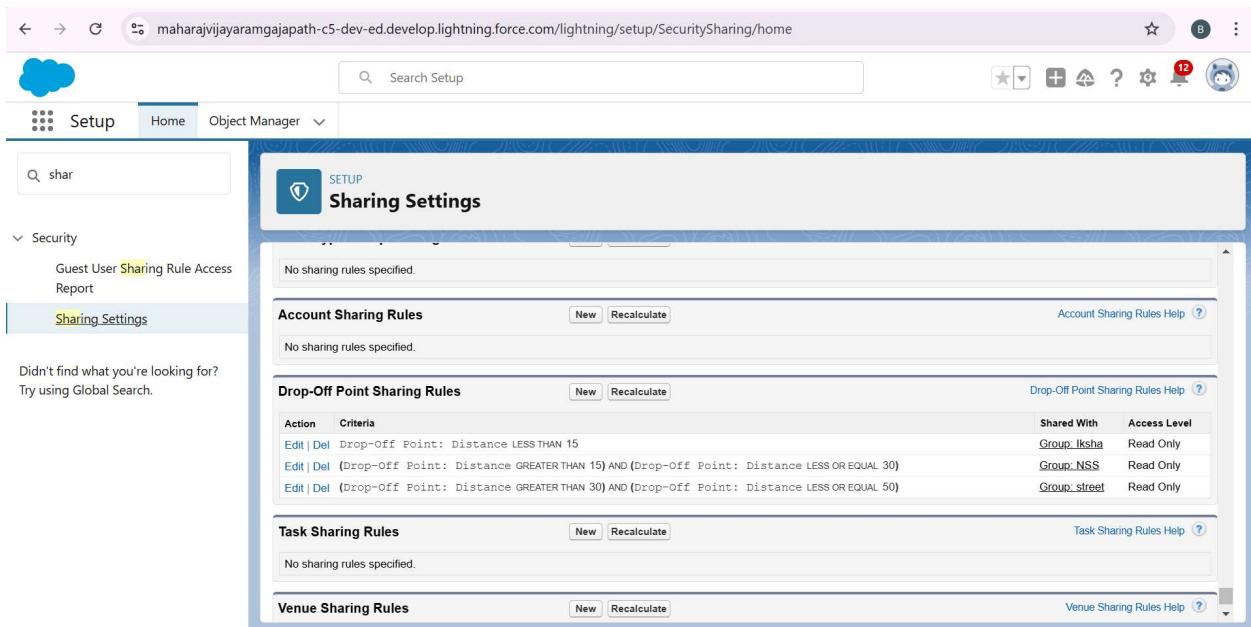


Venue Name	Drop-Off point Name	Distance
Akshara	Vizianagaram	9.4563
Amirtham	Vizag	8.6538
Vennela	Bheemunipatnam	5.1234

## Sharing Rules

### What is a Sharing Rule?

sharing rules are used to extend access to records to users in public groups or roles. They allow administrators to define additional criteria for sharing records beyond what is granted by default through profiles and roles, ensuring appropriate data access across the organization.



The screenshot shows the Salesforce Sharing Settings page. The left sidebar has a search bar with 'shar' typed in, a 'Security' section with 'Sharing Settings' selected, and a note about global search. The main area displays four sections: 'Account Sharing Rules' (no rules), 'Drop-Off Point Sharing Rules' (three rules listed), 'Task Sharing Rules' (no rules), and 'Venue Sharing Rules' (no rules). Each section has 'New' and 'Recalculate' buttons.

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 15) AND (Drop-Off Point: Distance LESS OR EQUAL 30)	Group_NSS	Read Only
Edit   Del	(Drop-Off Point: Distance GREATER THAN 30) AND (Drop-Off Point: Distance LESS OR EQUAL 50)	Group_street	Read Only

## 5. Testing and Validation

To ensure the system meets quality standards, the following testing methods were applied:

- **Unit Testing:** Verified Apex classes and triggers to ensure business logic functions correctly.
- **User Interface Testing:** Ensured that all user interactions are seamless and align with project objectives.

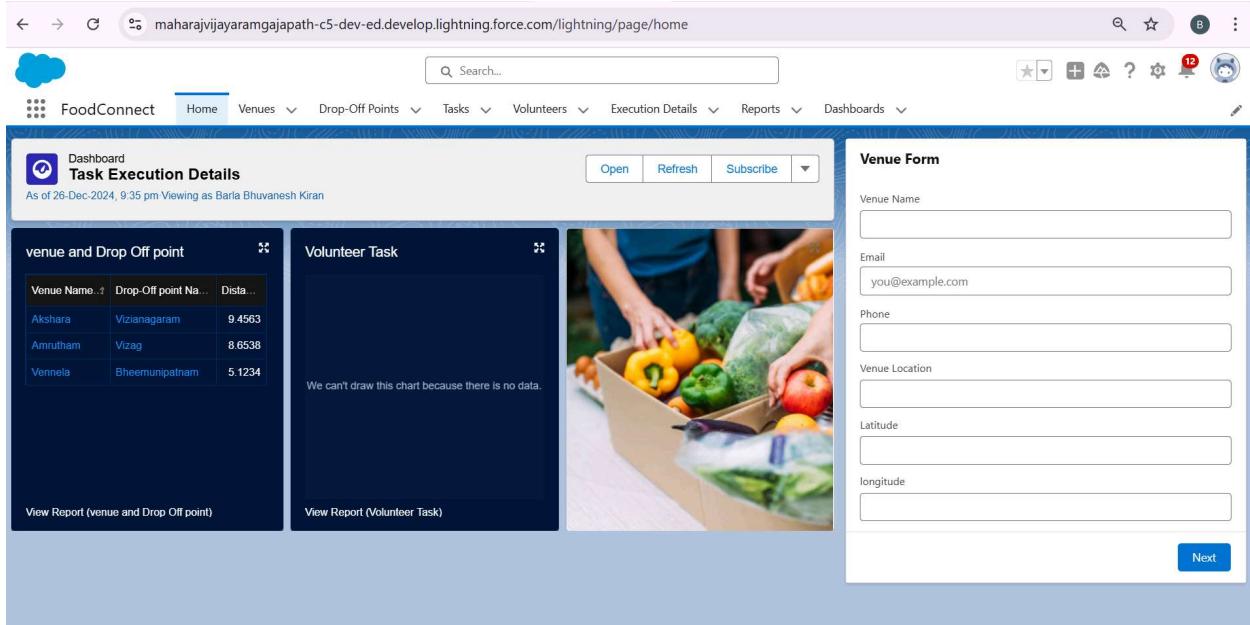
## 6. Key Scenarios Addressed by Salesforce in the Implementation Project

This project supports multiple use cases, such as:

- **Food Donation Alerts:** Notifies volunteers about new donations.
- **Automated Matching:** Matches donations with recipients based on location and food type.
- **Real-Time Tracking:** Monitors the delivery status for transparency and accountability.
- **Delivery Confirmation:** Confirms that food has reached the intended recipients.

## 7. Conclusion

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



The screenshot shows the Salesforce Lightning interface for a project named "FoodConnect". The top navigation bar includes links for Home, Venues, Drop-Off Points, Tasks, Volunteers, Execution Details, Reports, and Dashboards. The main content area displays two reports: "venue and Drop Off point" and "Volunteer Task". The "venue and Drop Off point" report lists three locations with their names, drop-off points, and distances:

Venue Name	Drop-Off point Na...	Dista ...
Akshara	Vizianagaram	9.4563
Amrutham	Vizag	8.6538
Vennela	Bheemunipatnam	5.1234

The "Volunteer Task" report displays a message: "We can't draw this chart because there is no data." To the right of these reports is a photograph of a person packing fresh vegetables like bell peppers and apples into a cardboard box. On the far right, a "Venue Form" is open, containing fields for Venue Name, Email, Phone, Venue Location, Latitude, and Longitude, with a "Next" button at the bottom.

