

Project Title Project to Supply Leftover Food to the Poor Using Salesforce

Submitted by

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1. Project Overview

This project addresses the challenge of food waste and hunger by leveraging Salesforce technology to facilitate the distribution of surplus food to those in need. Through this solution, we aim to efficiently connect donors, such as restaurants and grocery stores, with organizations that assist the needy. Utilizing Salesforce CRM as the core platform, the project enables real-time tracking of donations, manages logistics, and ensures timely delivery. This initiative promotes transparency, accountability, and improved resource allocation within the network of food donors and recipients.

2. Objectives

- **Business Goals:** Reduce food waste and combat hunger by connecting food suppliers with non-profits and shelters.
- **Specific Outcomes:**
 - Establish a reliable network of food donors and recipients.
 - Automate the matching process of food donations based on location, food type, and urgency.
 - Enable field agents to track deliveries and update statuses in real-time.

3. Salesforce Key Features and Concepts Utilized

- **Objects:** Custom objects created for Drop-Off Points, Tasks, Execution Details, Volunteers, and Venues to manage data specific to the project.
- **Tabs:** Custom tabs for key objects like Venues, Execution Details, and Volunteers, improving data organization and accessibility.
- **Lightning App:** Built for a smooth and user-friendly interface.
- **Fields:** Custom fields for storing detailed information about tasks, volunteer details, and drop-off points.

- **Flows:** Automated workflows for creating records and notifying users.
- **Triggers:** Apex triggers to enforce business logic and ensure data consistency.
- **Profiles and Users:** Defined specific roles and access levels to secure and organize data handling.
- **Public Groups:** Grouped users for simpler sharing and permissions management.
- **Report Types:** Created to facilitate custom reporting and track metrics like volunteer efficiency and food distribution effectiveness.
- **Dashboards:** Visual representation of key metrics, enabling better decision-making and operational insights.
- **Sharing Rules:** Used to extend access to records for users in public groups, ensuring secure and organized data sharing across the system.

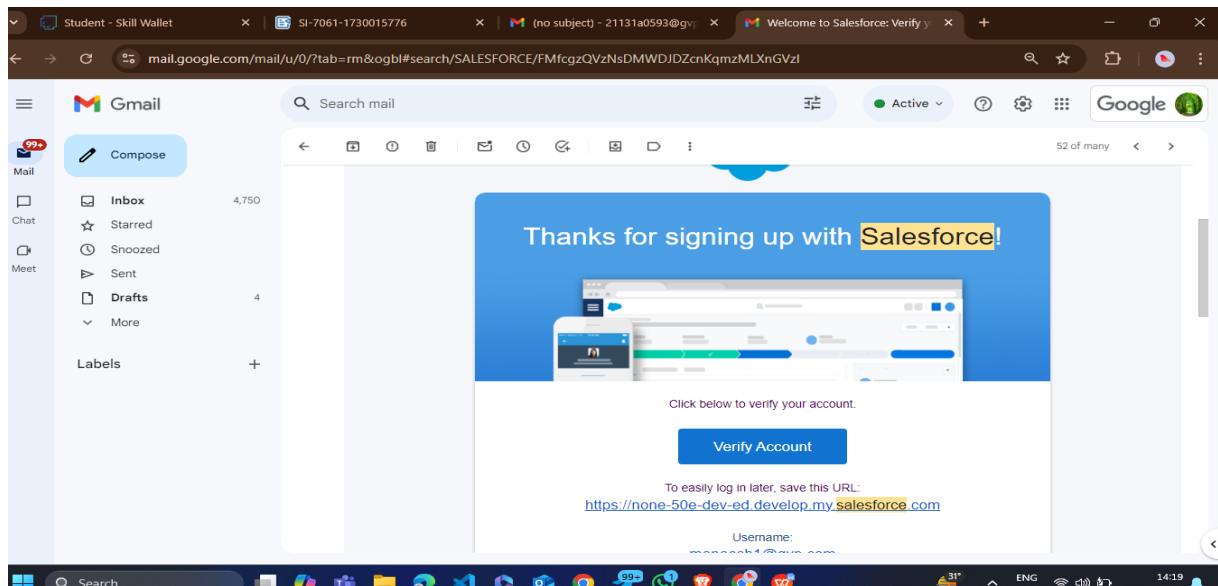
4. Detailed Steps to Solution Design

The solution design involved creating custom objects, fields, tabs, and lightning applications to build a user-friendly interface. Each object was carefully tailored to meet the unique data requirements for the project:

- **Data Model:** Custom objects (Drop-Off Points, Volunteers, etc.) organized data effectively, while relationships between objects streamlined the distribution workflow.
- **User Interface:** Custom tabs and Lightning components facilitated easy access to information, optimized for mobile use.
- **Business Logic:** Flows and triggers automated donation alerts, assignment of volunteers, and tracking of delivery updates to ensure a smooth process.

salesforce developer account creation

- Creating a developer org in salesforce
- 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:

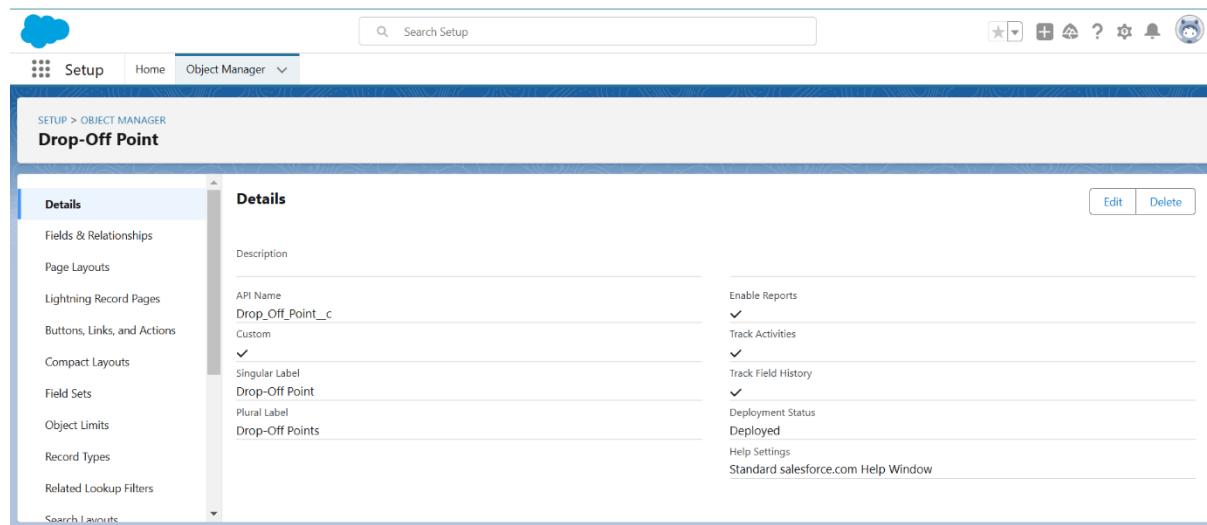
1. **Standard Objects:** These are pre-built objects provided by Salesforce, such as Accounts, Contacts, Leads, and Opportunities, which cover common business processes.
2. **Custom Objects:** These are user-defined objects created to store data unique to a particular business or application. Custom 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.

a. Drop-Off Point



Drop-Off Point

Details

| | |
|----------------|-------------------|
| Description | |
| API Name | Drop_Off_Point__c |
| Custom | ✓ |
| Singular Label | Drop-Off Point |
| Plural Label | Drop-Off Points |

Enable Reports

✓ Track Activities
 ✓ Track Field History
 ✓ Deployment Status
 Deployed
 Help Settings
 Standard salesforce.com Help Window

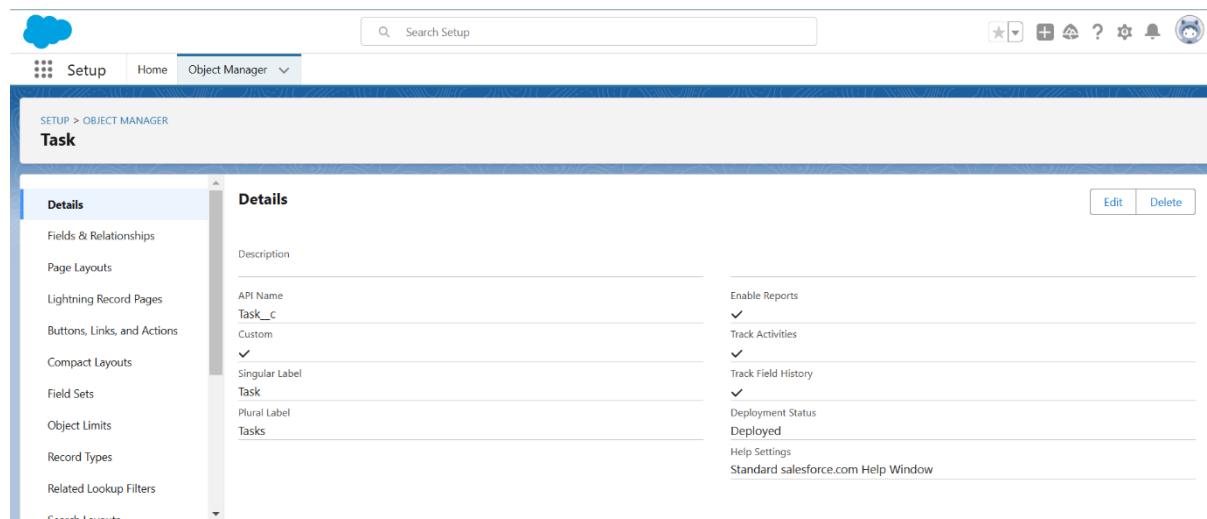
Edit | Delete

Fields & Relationships

- Page Layouts
- Lightning Record Pages
- Buttons, Links, and Actions
- Compact Layouts
- Field Sets
- Object Limits
- Record Types
- Related Lookup Filters

Search Layouts

b. Task



Task

Details

| | |
|----------------|---------|
| Description | |
| API Name | Task__c |
| Custom | ✓ |
| Singular Label | Task |
| Plural Label | Tasks |

Enable Reports

✓ Track Activities
 ✓ Track Field History
 ✓ Deployment Status
 Deployed
 Help Settings
 Standard salesforce.com Help Window

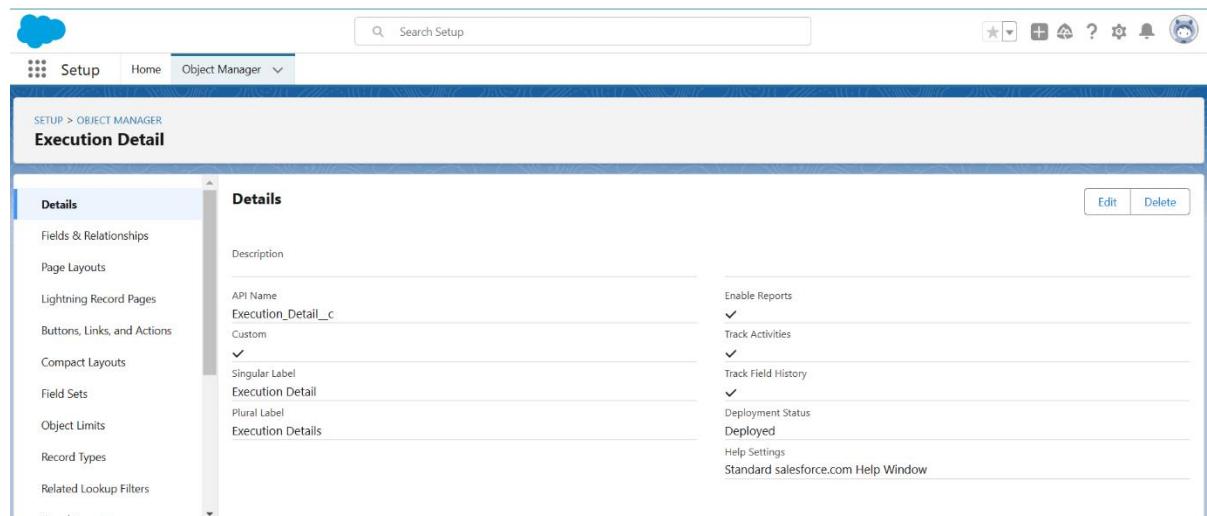
Edit | Delete

Fields & Relationships

- Page Layouts
- Lightning Record Pages
- Buttons, Links, and Actions
- Compact Layouts
- Field Sets
- Object Limits
- Record Types
- Related Lookup Filters

Search Layouts

c. Execution Detail



Execution Detail

Details

| | |
|----------------|---------------------|
| 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

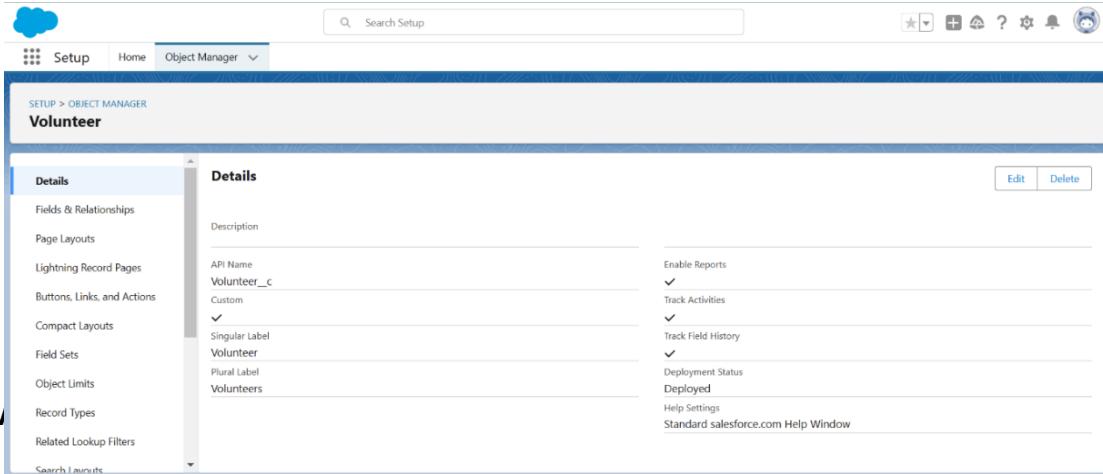
Edit | Delete

Fields & Relationships

- Page Layouts
- Lightning Record Pages
- Buttons, Links, and Actions
- Compact Layouts
- Field Sets
- Object Limits
- Record Types
- Related Lookup Filters

Search Layouts

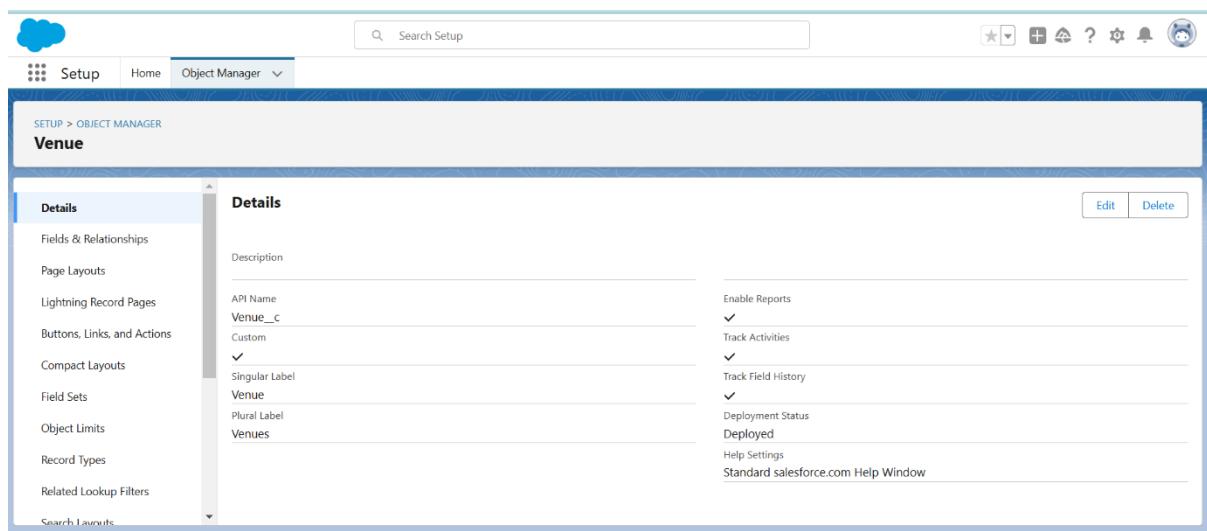
d. Volunteer



The screenshot shows the Salesforce Setup interface under the Object Manager. The object selected is 'Volunteer'. 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 information:

| Setting | 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 |

e. V



The screenshot shows the Salesforce Setup interface under the Object Manager. The object selected is 'Venue'. 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 information:

| Setting | Value |
|---------------------|-------------------------------------|
| 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 |

Tab:

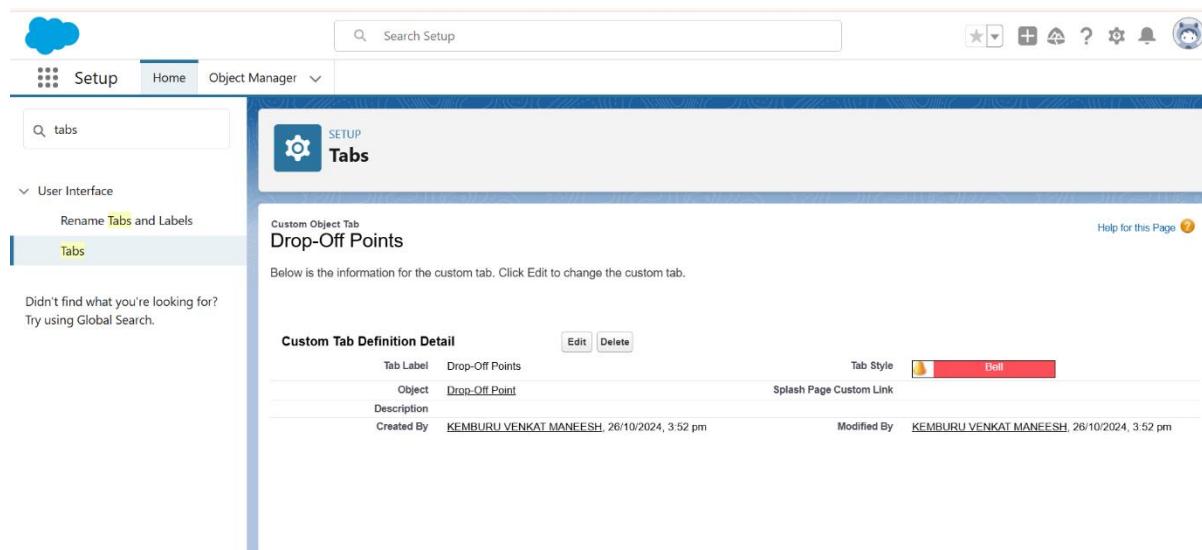
What is Tab ?

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

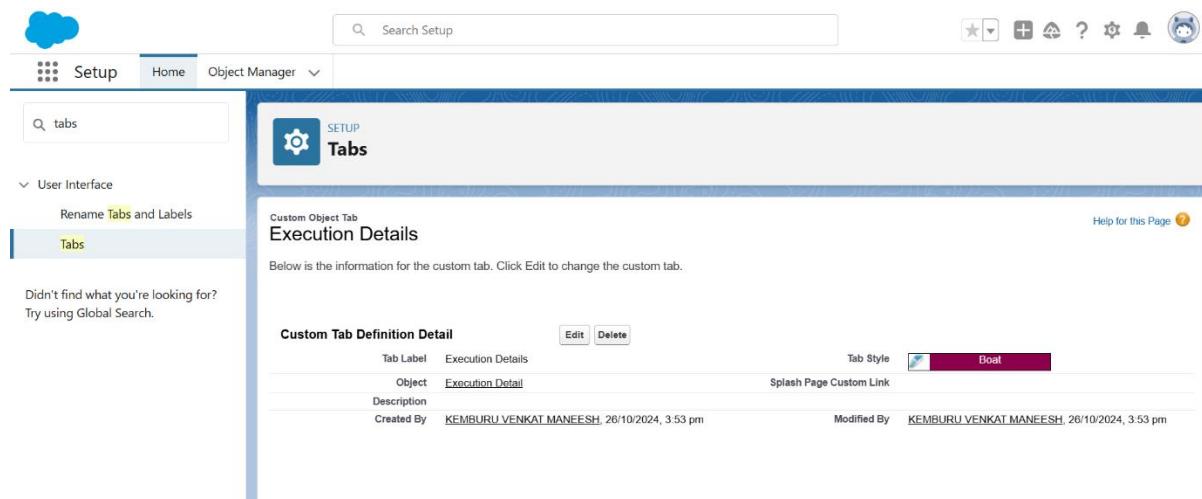
I) Drop-Off Point Tab



The screenshot shows the Salesforce Setup interface under the 'Tabs' section. A custom object tab named 'Drop-Off Points' has been created for the 'Drop-Off Point' object. The tab is styled with a red background and a bell icon. It was created by KEMBURU VENKAT MANEESH on 26/10/2024, 3:52 pm, and modified by the same user on 26/10/2024, 3:52 pm.

| Custom Tab Definition Detail | Tab Label | Object | Description | Created By | Modified By | Tab Style | Splash Page Custom Link |
|------------------------------|-----------------|----------------|-------------|------------------------|------------------------|-----------|-------------------------|
| | Drop-Off Points | Drop-Off Point | | KEMBURU VENKAT MANEESH | KEMBURU VENKAT MANEESH | Bell | |

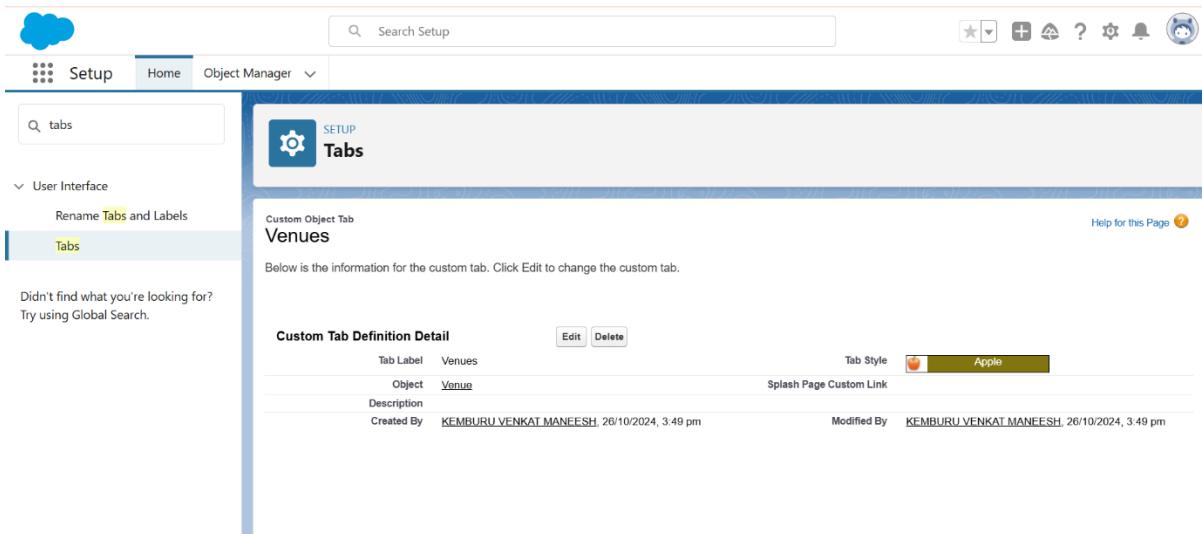
II) Execution Details Tab



The screenshot shows the Salesforce Setup interface under the 'Tabs' section. A custom object tab named 'Execution Details' has been created for the 'Execution Detail' object. The tab is styled with a purple background and a boat icon. It was created by KEMBURU VENKAT MANEESH on 26/10/2024, 3:53 pm, and modified by the same user on 26/10/2024, 3:53 pm.

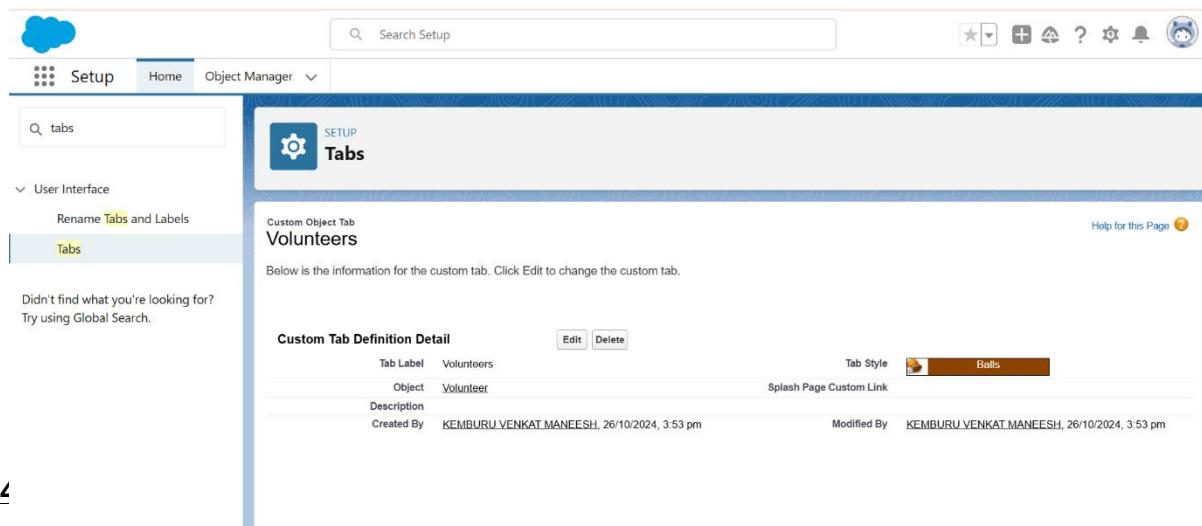
| Custom Tab Definition Detail | Tab Label | Object | Description | Created By | Modified By | Tab Style | Splash Page Custom Link |
|------------------------------|-------------------|------------------|-------------|------------------------|------------------------|-----------|-------------------------|
| | Execution Details | Execution Detail | | KEMBURU VENKAT MANEESH | KEMBURU VENKAT MANEESH | Boat | |

III) Venues Tab



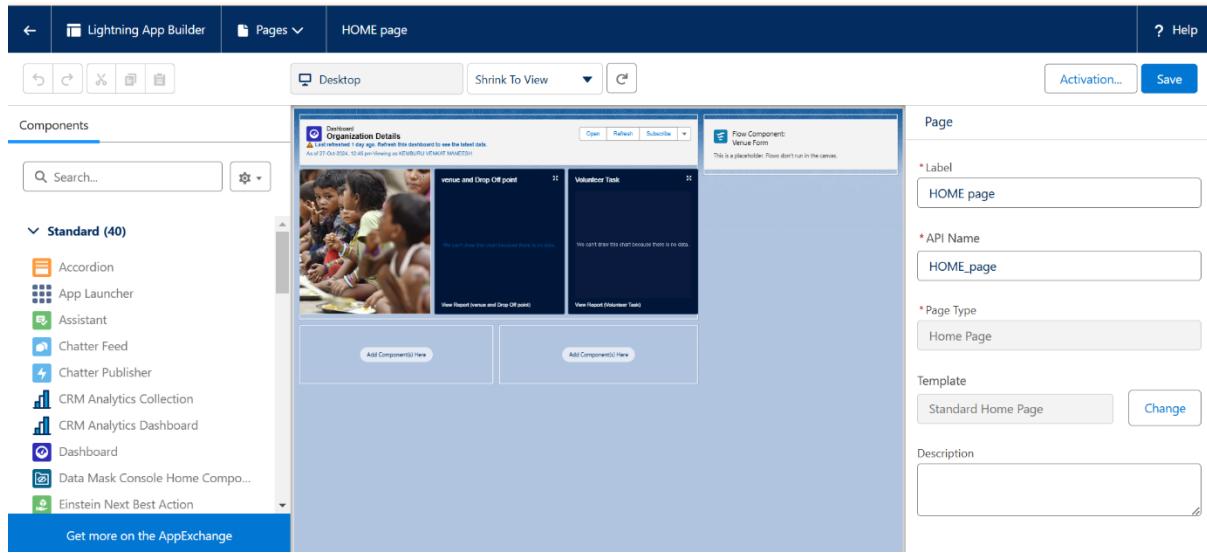
The screenshot shows the Salesforce Setup interface under the 'Tabs' section. A search bar at the top left contains 'tabs'. The main content area displays a 'Custom Tab Definition Detail' for a 'Custom Object Tab' named 'Venues'. The tab is defined for the 'Venue' object. The 'Tab Style' is set to 'Apple'. The 'Edit' and 'Delete' buttons are visible above the detail table. The table includes columns for 'Tab Label' (Venues), 'Object' (Venue), 'Description', 'Created By' (KEMBURU VENKAT MANEESH, 26/10/2024, 3:49 pm), and 'Modified By' (KEMBURU VENKAT MANEESH, 26/10/2024, 3:49 pm). A note below the table says, 'Below is the information for the custom tab. Click Edit to change the custom tab.'

IV) Volunteers Tab



This screenshot shows the same Salesforce Setup interface as the previous one, but for a different tab definition. The 'Custom Tab Definition Detail' is for a 'Custom Object Tab' named 'Volunteers', which is defined for the 'Volunteer' object. The 'Tab Style' is set to 'Balls'. The rest of the table and surrounding interface elements are identical to the previous screenshot.

Will create a lightning app page-



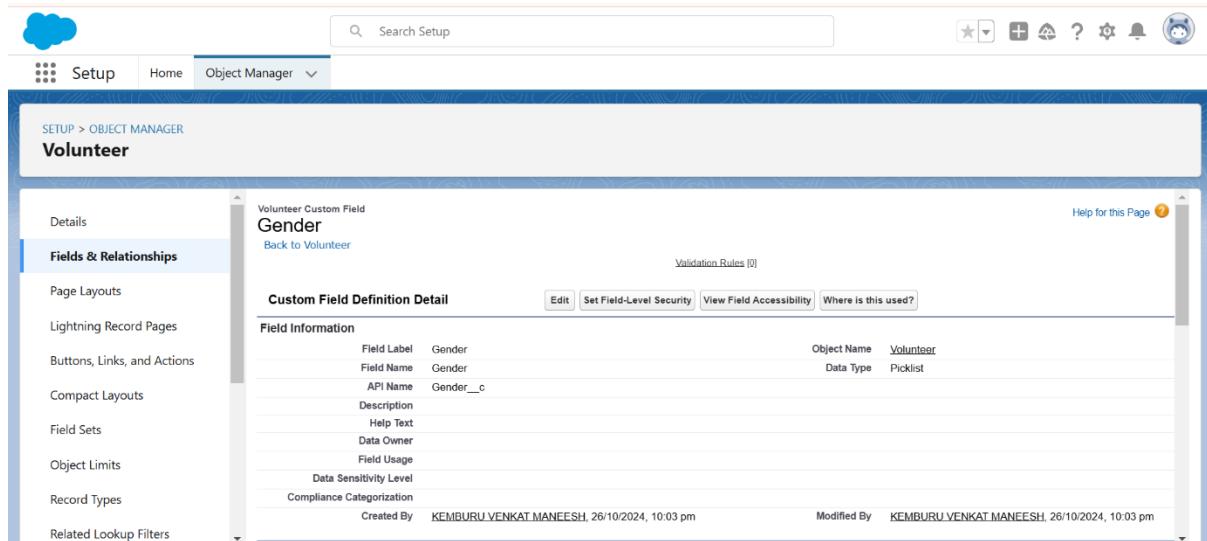
The screenshot shows the Lightning App Builder interface. At the top, there are tabs for 'Lightning App Builder' and 'Pages' (with 'HOME page' selected). On the left, a sidebar titled 'Components' lists various standard components like Accordion, App Launcher, Assistant, Chatter Feed, etc. In the center, a preview area shows a 'Desired Organization Details' dashboard with two cards: 'venue and Drop Off point' and 'Volunteer Task'. Below the preview, there are buttons for 'Add Component(s) Here'. On the right, the configuration pane is open for the 'HOME page' component, showing fields for 'Label' (set to 'HOME page'), 'API Name' (set to 'HOME_page'), 'Page Type' (set to 'Home Page'), 'Template' (set to 'Standard Home Page'), and a 'Description' field.

5)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 Setup interface under 'Object Manager'. A sidebar on the left lists options like 'Fields & Relationships', 'Page Layouts', 'Lightning Record Pages', etc. The main area shows the 'Volunteer' object details. A custom field named 'Gender' is being edited. The 'Custom Field Definition Detail' section shows the following details:

| Field Information | | Object Name | Data Type |
|---------------------------|--|-------------|--|
| Field Label | Gender | Volunteer | Picklist |
| Field Name | Gender | | |
| API Name | Gender_c | | |
| Description | | | |
| Help Text | | | |
| Data Owner | | | |
| Field Usage | | | |
| Data Sensitivity Level | | | |
| Compliance Categorization | | | |
| Created By | KEMBURU VENKAT MANEESH, 26/10/2024, 10:03 pm | Modified By | KEMBURU VENKAT MANEESH, 26/10/2024, 10:03 pm |

Execution ID

Cloud icon

Search Setup

Setup Home Object Manager

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

Volunteer Custom Field
Execution ID
Back to Volunteer

Custom Field Definition Detail

Help for this Page

Field Information

| | | | |
|---------------------------|----------------|-------------|-------------|
| Field Label | Execution ID | Object Name | Volunteer |
| Field Name | Execution_ID | Data Type | Auto Number |
| API Name | Execution_ID_c | | |
| Description | | | |
| Help Text | | | |
| Data Owner | | | |
| Field Usage | | | |
| Data Sensitivity Level | | | |
| Compliance Categorization | | | |

Created By KEMBURU VENKAT MANEESH, 26/10/2024, 10:16 pm Modified By KEMBURU VENKAT MANEESH, 26/10/2024, 10:16 pm

Date of birth

Cloud icon

Search Setup

Setup Home Object Manager

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

Volunteer Custom Field
Date of Birth
Back to Volunteer

Custom Field Definition Detail

Validation Rules [0]

Help for this Page

Field Information

| | | | |
|---------------------------|-----------------|-------------|-----------|
| Field Label | Date of Birth | Object Name | Volunteer |
| Field Name | Date_of_Birth | Data Type | Date |
| API Name | Date_of_Birth_c | | |
| Description | | | |
| Help Text | | | |
| Data Owner | | | |
| Field Usage | | | |
| Data Sensitivity Level | | | |
| Compliance Categorization | | | |

Created By KEMBURU VENKAT MANEESH, 26/10/2024, 10:09 pm Modified By KEMBURU VENKAT MANEESH, 26/10/2024, 10:09 pm

Addresss

Cloud icon

Search Setup

Setup Home Object Manager

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

Volunteer Custom Field
Address
Back to Volunteer

Custom Field Definition Detail

Validation Rules [0]

Help for this Page

Field Information

| | | | |
|---------------------------|-----------|-------------|----------------|
| Field Label | Address | Object Name | Volunteer |
| Field Name | Address | Data Type | Long Text Area |
| API Name | Address_c | | |
| Description | | | |
| Help Text | | | |
| Data Owner | | | |
| Field Usage | | | |
| Data Sensitivity Level | | | |
| Compliance Categorization | | | |

Created By KEMBURU VENKAT MANEESH, 26/10/2024, 10:08 pm Modified By KEMBURU VENKAT MANEESH, 26/10/2024, 10:08 pm

Cloud icon

Setup Home Object Manager

SETUP > OBJECT MANAGER
Volunteer

Email

Back to Volunteer

Validation Rules [0]

Custom Field Definition Detail

Help for this Page ?

| Field Information | | Object Name | Volunteer |
|-------------------|------------|---------------------------|--|
| Field Label | Field Name | Data Type | Email |
| Email | Email | Description | Email |
| | | Help Text | |
| | | Data Owner | |
| | | Field Usage | |
| | | Data Sensitivity Level | |
| | | Compliance Categorization | |
| | | Created By | KEMBURU VENKAT MANEESH, 26/10/2024, 10:07 pm |
| | | Modified By | KEMBURU VENKAT MANEESH, 26/10/2024, 10:07 pm |

Details

Fields & Relationships

- Page Layouts
- Lightning Record Pages
- Buttons, Links, and Actions
- Compact Layouts
- Field Sets
- Object Limits
- Record Types
- Related Lookup Filters

Age

Cloud icon

Setup Home Object Manager

SETUP > OBJECT MANAGER
Volunteer

Age

Back to Volunteer

Validation Rules [0]

Custom Field Definition Detail

Help for this Page ?

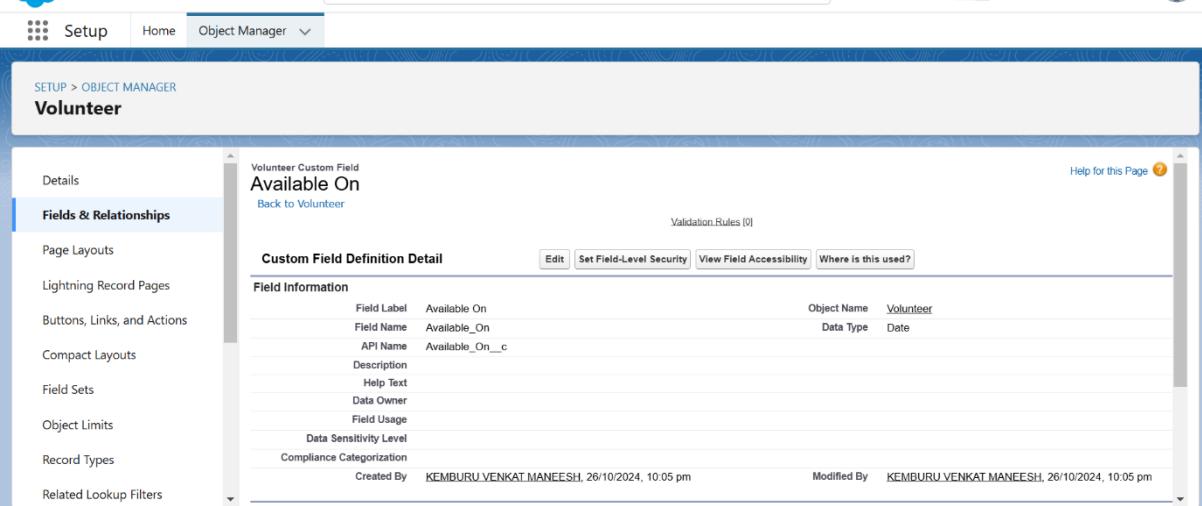
| Field Information | | Object Name | Volunteer |
|-------------------|------------|---------------------------|--|
| Field Label | Field Name | Data Type | Number |
| Age | Age | Description | |
| | | Help Text | |
| | | Data Owner | |
| | | Field Usage | |
| | | Data Sensitivity Level | |
| | | Compliance Categorization | |
| | | Created By | KEMBURU VENKAT MANEESH, 26/10/2024, 10:06 pm |
| | | Modified By | KEMBURU VENKAT MANEESH, 26/10/2024, 10:06 pm |

Details

Fields & Relationships

- Page Layouts
- Lightning Record Pages
- Buttons, Links, and Actions
- Compact Layouts
- Field Sets
- Object Limits
- Record Types
- Related Lookup Filters

Avaialble On



SETUP > OBJECT MANAGER

Volunteer

Available On

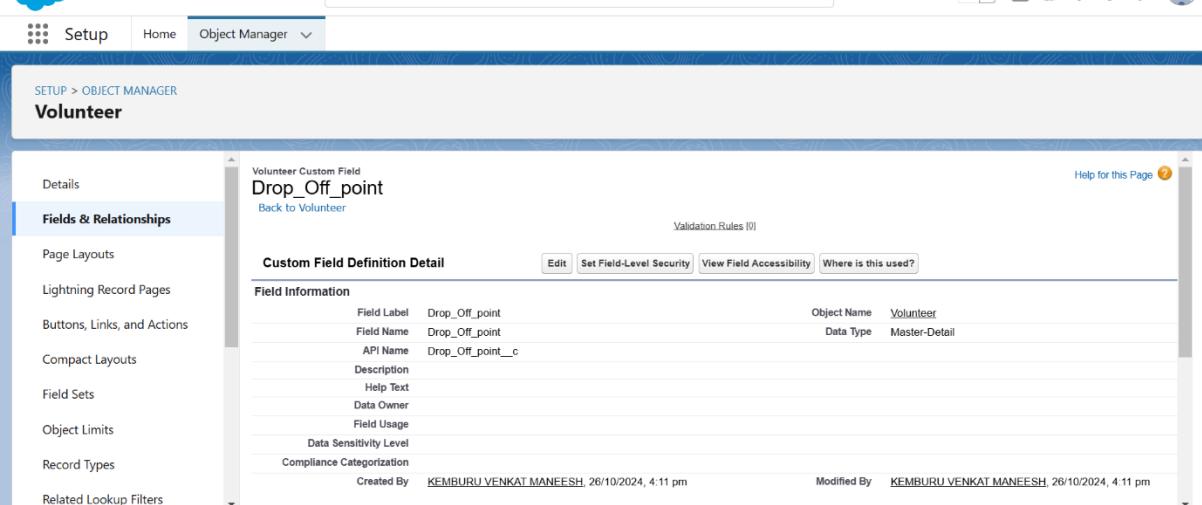
Custom Field Definition Detail

| Field Information | | Object Name | Object 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 | KEMBURU VENKAT MANEESH, 26/10/2024, 10:05 pm | Modified By | KEMBURU VENKAT MANEESH, 26/10/2024, 10:05 pm |

Fields & Relationships

- Page Layouts
- Lightning Record Pages
- Buttons, Links, and Actions
- Compact Layouts
- Field Sets
- Object Limits
- Record Types
- Related Lookup Filters

Drop_off_point



SETUP > OBJECT MANAGER

Volunteer

Drop_Off_point

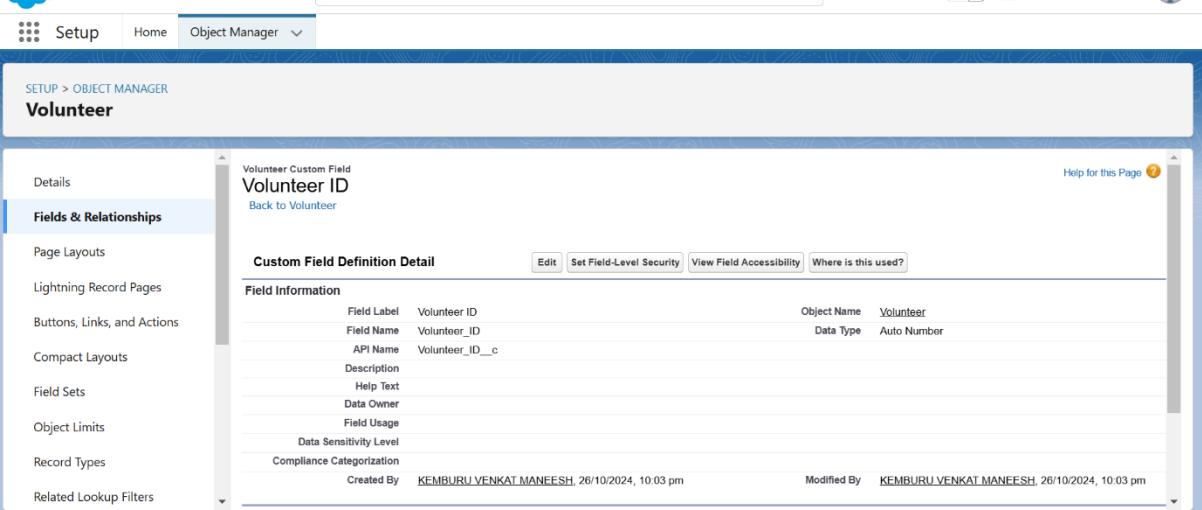
Custom Field Definition Detail

| Field Information | | Object Name | Object Type |
|---------------------------|---|-------------|---|
| Field Label | Drop_Off_point | Volunteer | Master-Detail |
| Field Name | Drop_Off_point | | |
| API Name | Drop_Off_point_c | | |
| Description | | | |
| Help Text | | | |
| Data Owner | | | |
| Field Usage | | | |
| Data Sensitivity Level | | | |
| Compliance Categorization | | | |
| Created By | KEMBURU VENKAT MANEESH, 26/10/2024, 4:11 pm | Modified By | KEMBURU VENKAT MANEESH, 26/10/2024, 4:11 pm |

Fields & Relationships

- Page Layouts
- Lightning Record Pages
- Buttons, Links, and Actions
- Compact Layouts
- Field Sets
- Object Limits
- Record Types
- Related Lookup Filters

Volunteer ID



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

Volunteer Custom Field
Volunteer ID
Back to Volunteer

Custom Field Definition Detail
Edit Set Field-Level Security View Field Accessibility Where is this used?

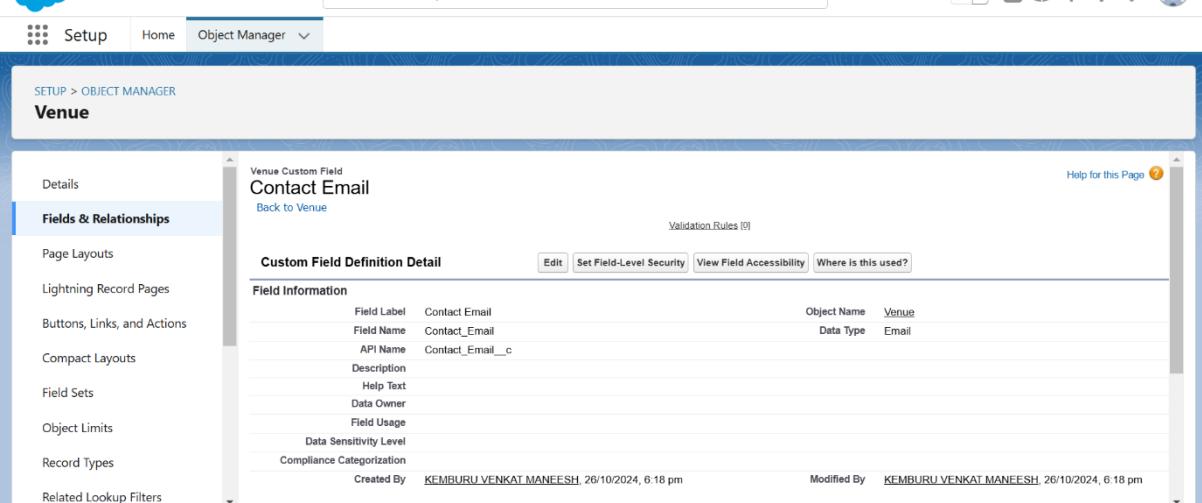
Field Information
Field Label: Volunteer ID
Field Name: Volunteer__ID
API Name: Volunteer_ID_c
Description
Help Text
Data Owner
Field Usage
Data Sensitivity Level
Compliance Categorization
Created By: KEMBURU VENKAT MANEESH, 26/10/2024, 10:03 pm
Modified By: KEMBURU VENKAT MANEESH, 26/10/2024, 10:03 pm

Object Name: Volunteer
Data Type: Auto Number

Help for this Page ?

Creation of Fields for the Venue Object

Contact Email



SETUP > OBJECT MANAGER
Venue

Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters

Venue Custom Field
Contact Email
Back to Venue

Custom Field Definition Detail
Edit Set Field-Level Security View Field Accessibility Where is this used?

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
Compliance Categorization
Created By: KEMBURU VENKAT MANEESH, 26/10/2024, 6:18 pm
Modified By: KEMBURU VENKAT MANEESH, 26/10/2024, 6:18 pm

Object Name: Venue
Data Type: Email

Validation Rules [0]

Help for this Page ?

Contact Phone

Setup > OBJECT MANAGER

Venue

Contact Phone

Custom Field Definition Detail

| Field Information | | Object Name | Venue |
|---------------------------|---|-------------|---|
| Field Label | Contact Phone | Data Type | Phone |
| Field Name | Contact_Phone | | |
| API Name | Contact_Phone__c | | |
| Description | | | |
| Help Text | | | |
| Data Owner | | | |
| Field Usage | | | |
| Data Sensitivity Level | | | |
| Compliance Categorization | | | |
| Created By | KEMBURU VENKAT MANEESH, 26/10/2024, 6:22 pm | Modified By | KEMBURU VENKAT MANEESH, 26/10/2024, 6:22 pm |

Help for this Page ?

Details

Fields & Relationships

- Page Layouts
- Lightning Record Pages
- Buttons, Links, and Actions
- Compact Layouts
- Field Sets
- Object Limits
- Record Types
- Related Lookup Filters

Location

Setup > OBJECT MANAGER

Venue

Location

Custom Field Definition Detail

| Field Information | | Object Name | Venue |
|---------------------------|---|-------------|---|
| Field Label | Location | Data Type | Geolocation |
| Field Name | Location | | |
| API Name | Location__c | | |
| Description | Enter the Geolocation of your Venue | | |
| Help Text | | | |
| Data Owner | | | |
| Field Usage | | | |
| Data Sensitivity Level | | | |
| Compliance Categorization | | | |
| Created By | KEMBURU VENKAT MANEESH, 26/10/2024, 6:31 pm | Modified By | KEMBURU VENKAT MANEESH, 26/10/2024, 6:31 pm |

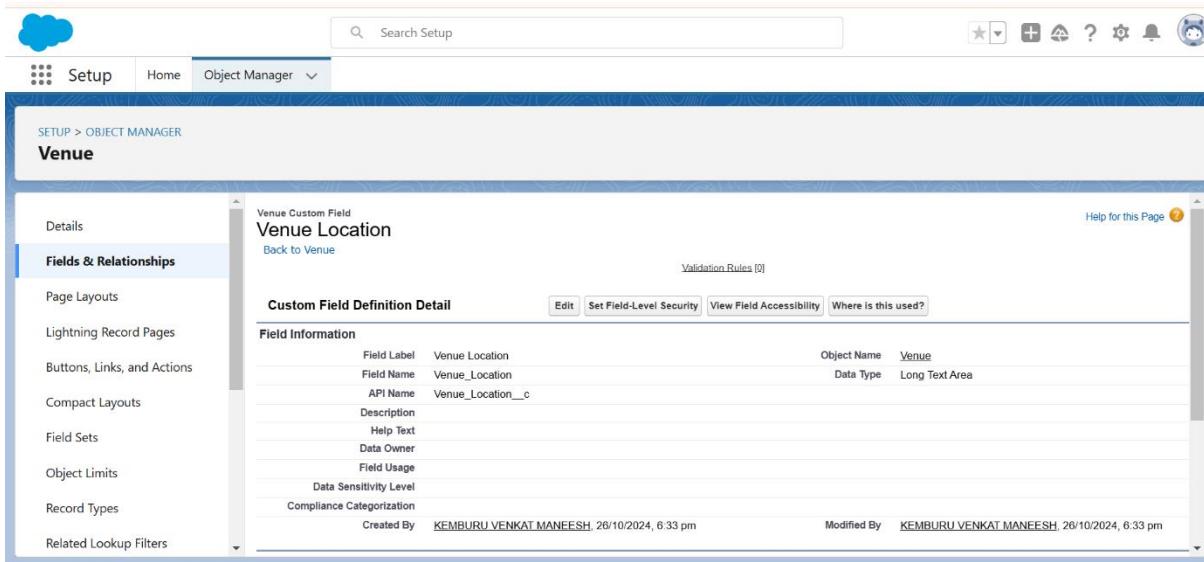
Help for this Page ?

Details

Fields & Relationships

- Page Layouts
- Lightning Record Pages
- Buttons, Links, and Actions
- Compact Layouts
- Field Sets
- Object Limits
- Record Types
- Related Lookup Filters

Venue Location



SETUP > OBJECT MANAGER

Venue

Venue Custom Field

Venue Location

Back to Venue

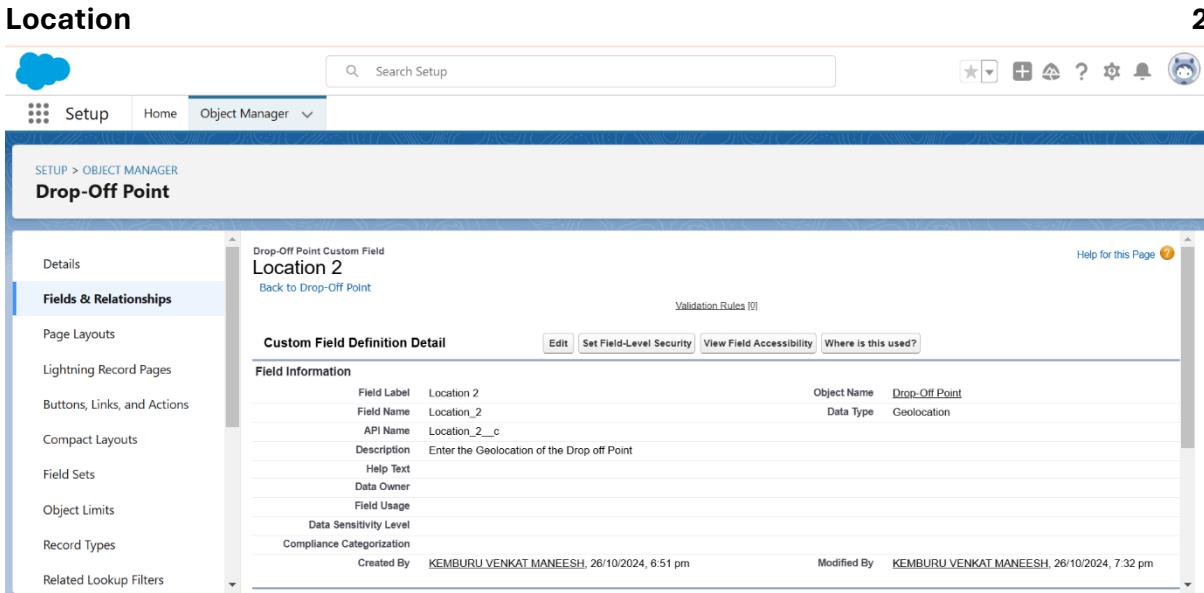
Custom Field Definition Detail

Validation Rules [0]

| Field Information | | Object Name | Data Type | | |
|---------------------------|------------------------|---------------------|----------------|------------------------|---------------------|
| Field Label | Venue Location | Venue | Long Text Area | | |
| Field Name | Venue_Location | | | | |
| API Name | Venue_Location__c | | | | |
| Description | | | | | |
| Help Text | | | | | |
| Data Owner | | | | | |
| Field Usage | | | | | |
| Data Sensitivity Level | | | | | |
| Compliance Categorization | | | | | |
| Created By | KEMBURU VENKAT MANEESH | 26/10/2024, 6:33 pm | Modified By | KEMBURU VENKAT MANEESH | 26/10/2024, 6:33 pm |

Help for this Page 

Creation of Fields for the Drop-Off Point Object



SETUP > OBJECT MANAGER

Drop-Off Point

Drop-Off Point Custom Field

Location 2

Back to Drop-Off Point

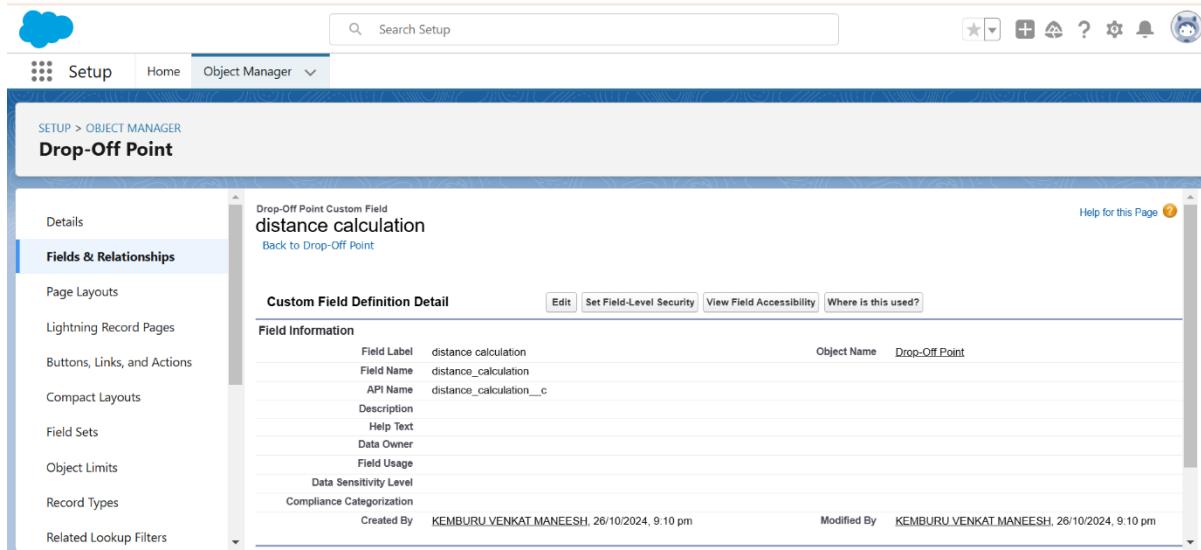
Custom Field Definition Detail

Validation Rules [0]

| Field Information | | Object Name | Data Type | | |
|---------------------------|---|---------------------|-------------|------------------------|---------------------|
| Field Label | Location 2 | Drop-Off Point | Geolocation | | |
| Field Name | Location_2 | | | | |
| API Name | Location_2__c | | | | |
| Description | Enter the Geolocation of the Drop off Point | | | | |
| Help Text | | | | | |
| Data Owner | | | | | |
| Field Usage | | | | | |
| Data Sensitivity Level | | | | | |
| Compliance Categorization | | | | | |
| Created By | KEMBURU VENKAT MANEESH | 26/10/2024, 6:51 pm | Modified By | KEMBURU VENKAT MANEESH | 26/10/2024, 7:32 pm |

Help for this Page 

distance Calculation



Drop-Off Point Custom Field
distance calculation

[Back to Drop-Off Point](#)

Custom Field Definition Detail

[Edit](#) [Set Field-Level Security](#) [View Field Accessibility](#) [Where is this used?](#)

| Field Information | | Object Name | Drop-Off Point |
|---------------------------|---|-------------|---|
| Field Label | distance calculation | Object Name | Drop-Off Point |
| Field Name | distance_calculation | Data Type | Text |
| API Name | distance_calculation_c | Created By | KEMBURU VENKAT MANEESH, 26/10/2024, 9:10 pm |
| Description | | Modified By | KEMBURU VENKAT MANEESH, 26/10/2024, 9:10 pm |
| Help Text | | | |
| Data Owner | | | |
| Field Usage | | | |
| Data Sensitivity Level | | | |
| Compliance Categorization | | | |
| Created By | KEMBURU VENKAT MANEESH, 26/10/2024, 9:10 pm | Modified By | KEMBURU VENKAT MANEESH, 26/10/2024, 9:10 pm |

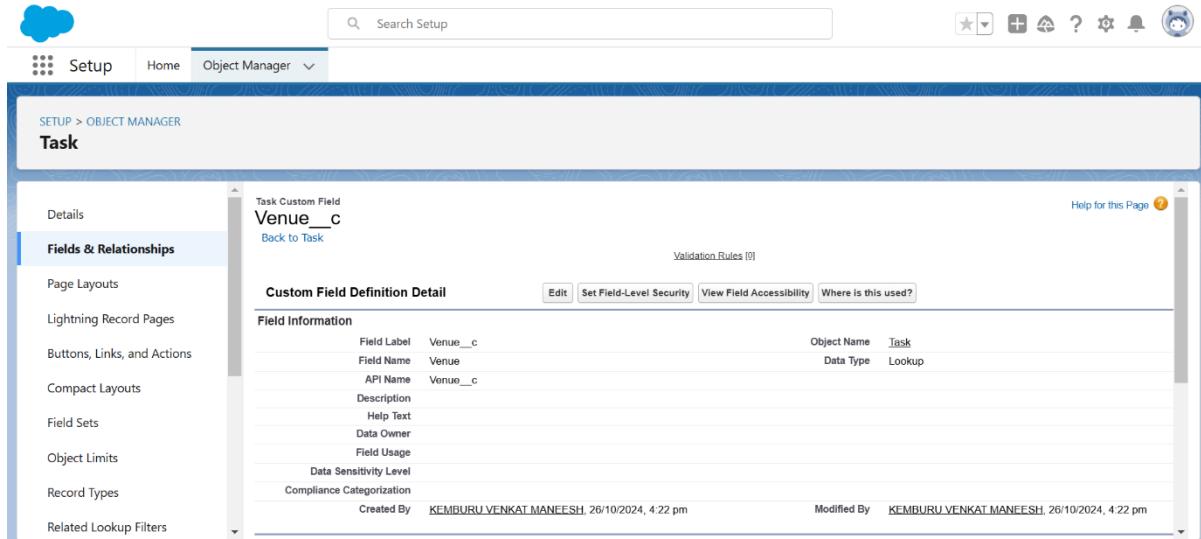
Details

Fields & Relationships

- Page Layouts
- Lightning Record Pages
- Buttons, Links, and Actions
- Compact Layouts
- Field Sets
- Object Limits
- Record Types
- Related Lookup Filters

Creation of Fields for the Task Object

Venue_c



Task Custom Field
Venue_c

[Back to Task](#)

Custom Field Definition Detail

[Edit](#) [Set Field-Level Security](#) [View Field Accessibility](#) [Where is this used?](#)

Validation Rules [0]

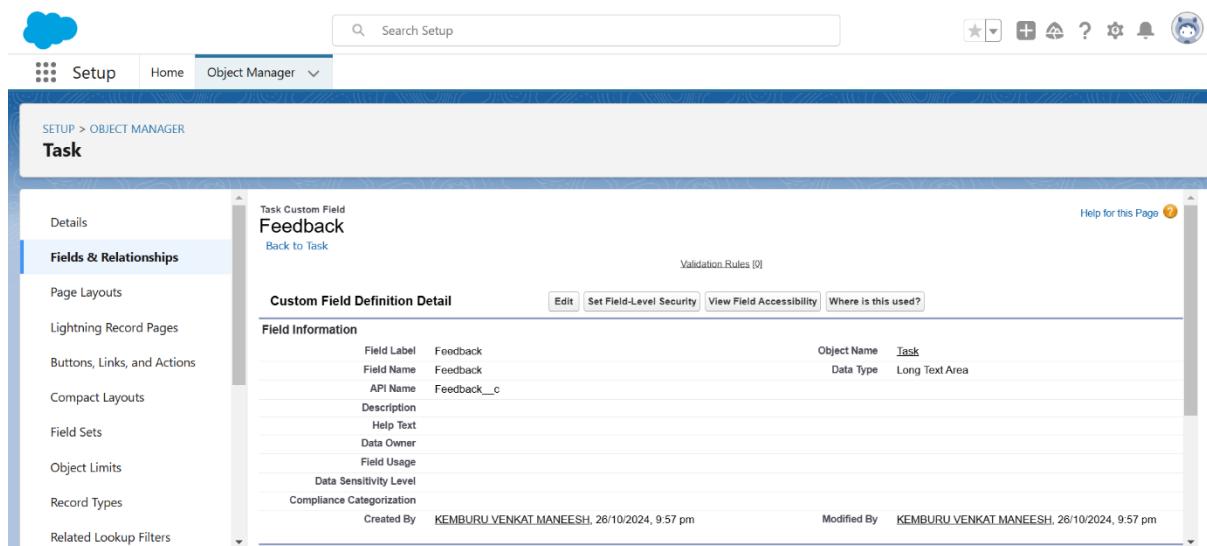
| Field Information | | Object Name | Task |
|---------------------------|---|-------------|---|
| Field Label | Venue_c | Object Name | Task |
| Field Name | Venue | Data Type | Lookup |
| API Name | Venue_c | Created By | KEMBURU VENKAT MANEESH, 26/10/2024, 4:22 pm |
| Description | | Modified By | KEMBURU VENKAT MANEESH, 26/10/2024, 4:22 pm |
| Help Text | | | |
| Data Owner | | | |
| Field Usage | | | |
| Data Sensitivity Level | | | |
| Compliance Categorization | | | |
| Created By | KEMBURU VENKAT MANEESH, 26/10/2024, 4:22 pm | Modified By | KEMBURU VENKAT MANEESH, 26/10/2024, 4:22 pm |

Details

Fields & Relationships

- Page Layouts
- Lightning Record Pages
- Buttons, Links, and Actions
- Compact Layouts
- Field Sets
- Object Limits
- Record Types
- Related Lookup Filters

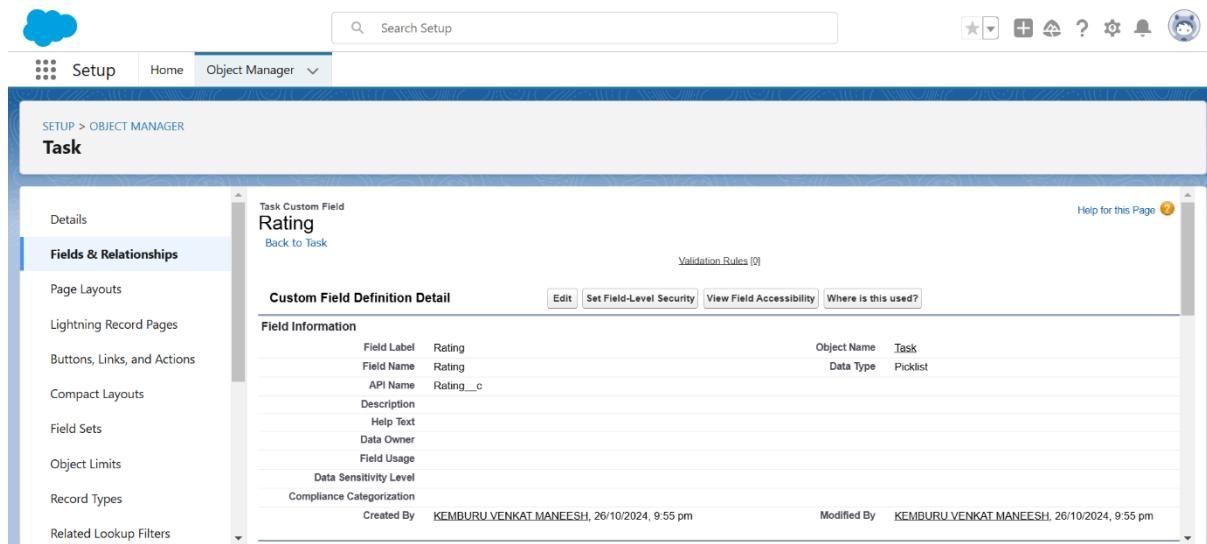
Feedback



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

- Field Label:** Feedback
- Field Name:** Feedback
- API Name:** Feedback__c
- Data Type:** Long Text Area
- Object Name:** Task
- Description:** (empty)
- Help Text:** (empty)
- Data Owner:** (empty)
- Field Usage:** (empty)
- Data Sensitivity Level:** (empty)
- Compliance Categorization:** (empty)
- Created By:** KEMBURU VENKAT MANEESH, 26/10/2024, 9:57 pm
- Modified By:** KEMBURU VENKAT MANEESH, 26/10/2024, 9:57 pm

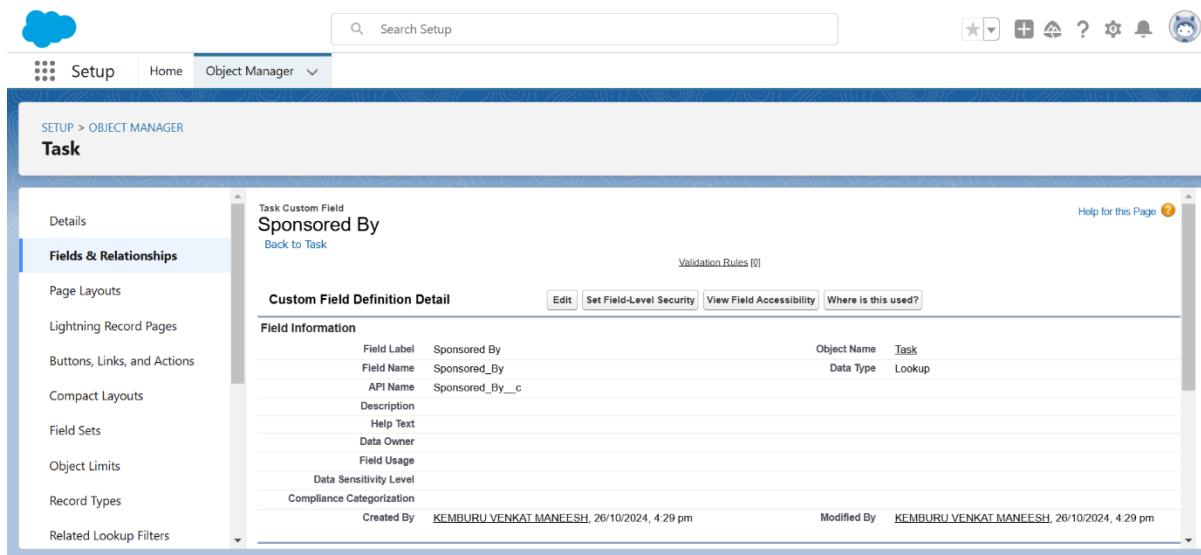
Rating



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

- Field Label:** Rating
- Field Name:** Rating
- API Name:** Rating__c
- Data Type:** Picklist
- Object Name:** Task
- Description:** (empty)
- Help Text:** (empty)
- Data Owner:** (empty)
- Field Usage:** (empty)
- Data Sensitivity Level:** (empty)
- Compliance Categorization:** (empty)
- Created By:** KEMBURU VENKAT MANEESH, 26/10/2024, 9:55 pm
- Modified By:** KEMBURU VENKAT MANEESH, 26/10/2024, 9:55 pm

Sponsored By



Task Custom Field
Sponsored By

[Back to Task](#)

Custom Field Definition Detail

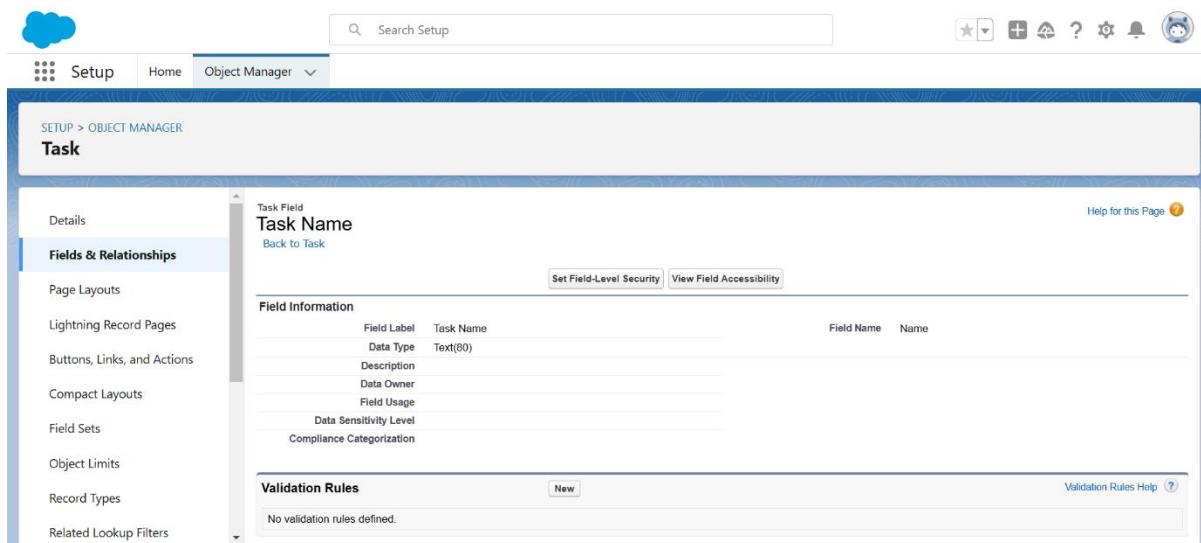
| Field Information | | Object Name | Task |
|---------------------------|---|-------------|---|
| Field Label | Sponsored By | Data Type | Lookup |
| Field Name | Sponsored_By | | |
| API Name | Sponsored_By__c | | |
| Description | | | |
| Help Text | | | |
| Data Owner | | | |
| Field Usage | | | |
| Data Sensitivity Level | | | |
| Compliance Categorization | | | |
| Created By | KEMBIRU VENKAT MANEESH, 26/10/2024, 4:29 pm | Modified By | KEMBIRU VENKAT MANEESH, 26/10/2024, 4:29 pm |

[Edit](#) [Set Field-Level Security](#) [View Field Accessibility](#) [Where is this used?](#)

[Validation Rules \[0\]](#)

[Help for this Page](#)

Task Name



Task Field
Task Name

[Back to Task](#)

Field Information

| Field Label | Task Name | Field Name | Name |
|---------------------------|-----------|------------|------|
| Data Type | Text(80) | | |
| Description | | | |
| Data Owner | | | |
| Field Usage | | | |
| Data Sensitivity Level | | | |
| Compliance Categorization | | | |

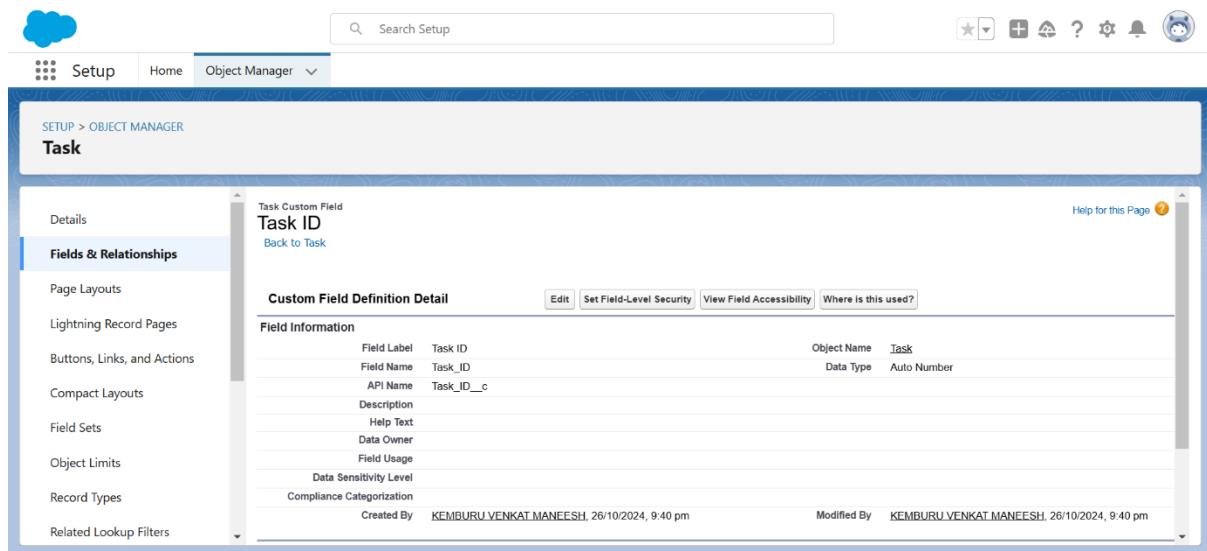
[Set Field-Level Security](#) [View Field Accessibility](#)

Validation Rules

No validation rules defined.

[New](#) [Validation Rules Help](#)

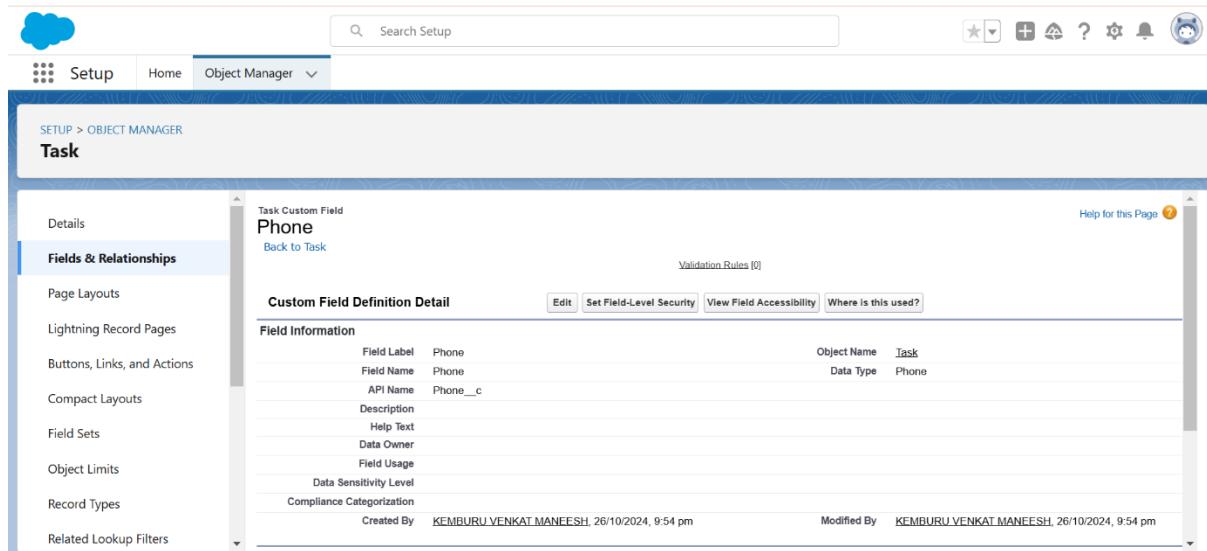
Task ID



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

| Field Label | Task ID | Object Name | Task |
|---------------------------|---|-------------|---|
| Field Name | Task_ID | Data Type | Auto Number |
| API Name | Task_ID_c | | |
| Description | | | |
| Help Text | | | |
| Data Owner | | | |
| Field Usage | | | |
| Data Sensitivity Level | | | |
| Compliance Categorization | | | |
| Created By | KEMBURU VENKAT MANEESH, 26/10/2024, 9:40 pm | Modified By | KEMBURU VENKAT MANEESH, 26/10/2024, 9:40 pm |

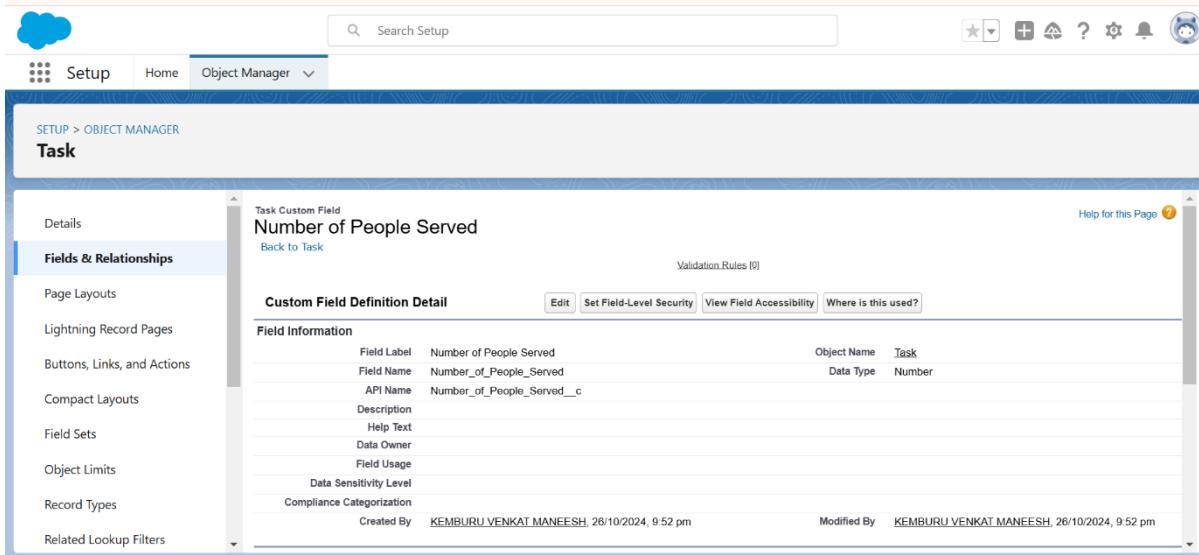
Phone



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

| Field Label | Phone | Object Name | Task |
|---------------------------|---|-------------|---|
| Field Name | Phone | Data Type | Phone |
| API Name | Phone_c | | |
| Description | | | |
| Help Text | | | |
| Data Owner | | | |
| Field Usage | | | |
| Data Sensitivity Level | | | |
| Compliance Categorization | | | |
| Created By | KEMBURU VENKAT MANEESH, 26/10/2024, 9:54 pm | Modified By | KEMBURU VENKAT MANEESH, 26/10/2024, 9:54 pm |

Number of People Served

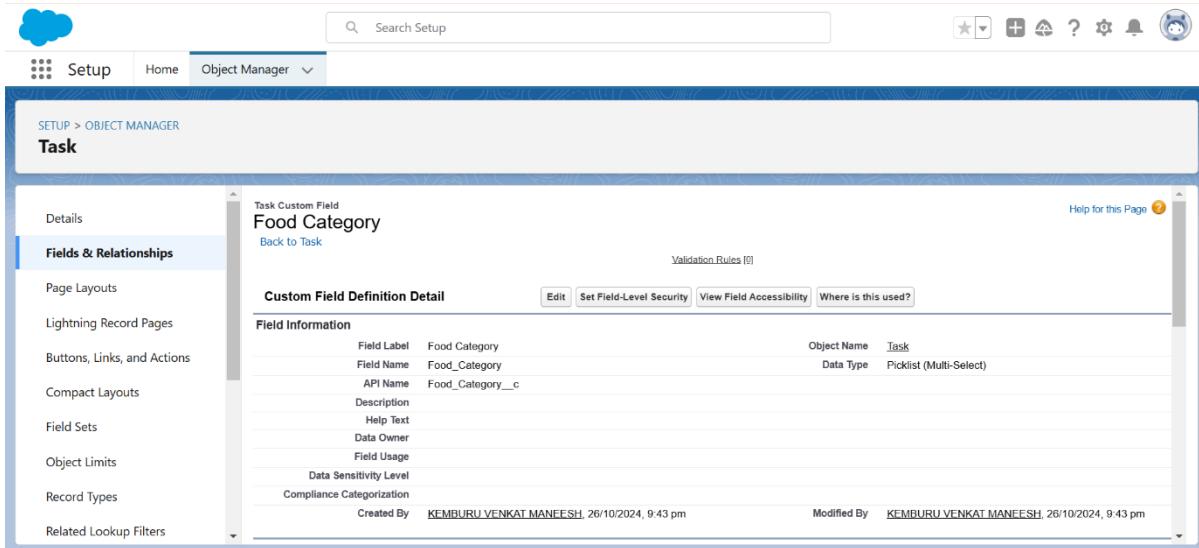


The screenshot shows the Salesforce Setup interface under the Object Manager for the Task object. A custom field named "Number of People Served" has been created. The field details are as follows:

| Field Label | Number of People Served | Object Name | Task |
|---------------------------|---------------------------|-------------|--------|
| Field Name | Number_of_People_Served | Data Type | Number |
| API Name | Number_of_People_Served_c | | |
| Description | | | |
| Help Text | | | |
| Data Owner | | | |
| Field Usage | | | |
| Data Sensitivity Level | | | |
| Compliance Categorization | | | |

Created By: KEMBURU VENKAT MANEESH, 26/10/2024, 9:52 pm Modified By: KEMBURU VENKAT MANEESH, 26/10/2024, 9:52 pm

Food Category

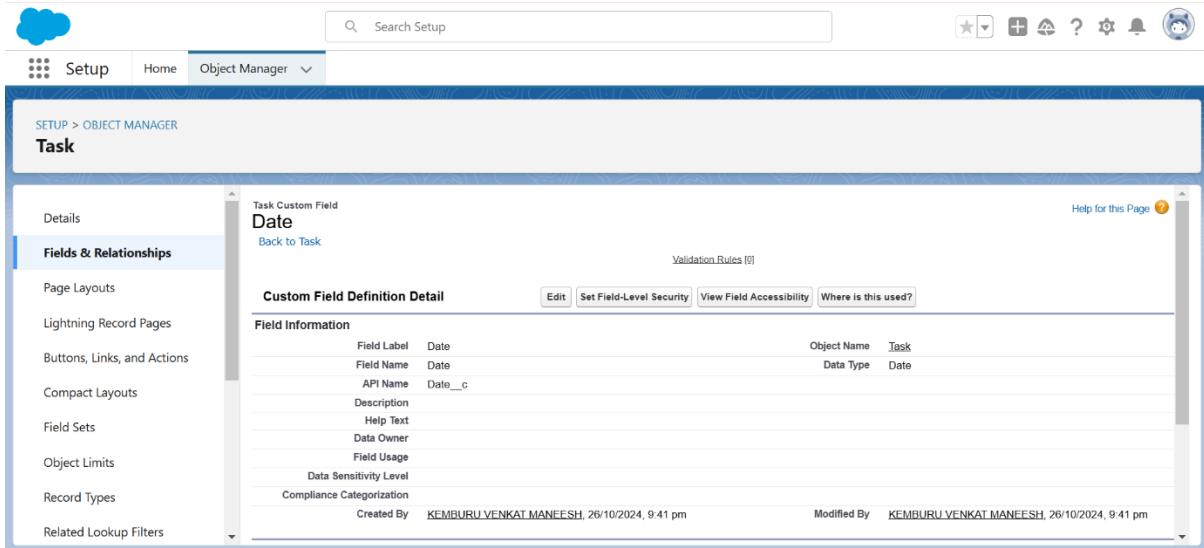


The screenshot shows the Salesforce Setup interface under the Object Manager for the Task object. A custom field named "Food Category" has been created. The field details are as follows:

| Field Label | Food Category | Object Name | Task |
|---------------------------|------------------|-------------|-------------------------|
| Field Name | Food_Category | Data Type | Picklist (Multi-Select) |
| API Name | Food_Category__c | | |
| Description | | | |
| Help Text | | | |
| Data Owner | | | |
| Field Usage | | | |
| Data Sensitivity Level | | | |
| Compliance Categorization | | | |

Created By: KEMBURU VENKAT MANEESH, 26/10/2024, 9:43 pm Modified By: KEMBURU VENKAT MANEESH, 26/10/2024, 9:43 pm

Date



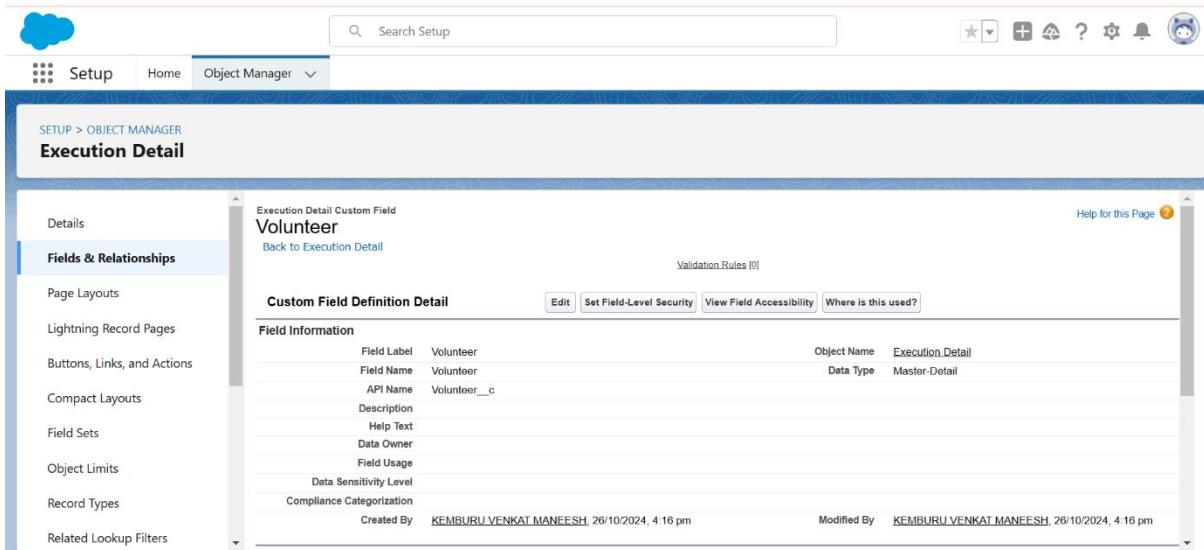
Task Custom Field Date

Custom Field Definition Detail

| Field Label | Date | Object Name | Task |
|---------------------------|---|-------------|---|
| Field Name | Date | Data Type | Date |
| API Name | Date_c | | |
| Description | | | |
| Help Text | | | |
| Data Owner | | | |
| Field Usage | | | |
| Data Sensitivity Level | | | |
| Compliance Categorization | | | |
| Created By | KEMBURU VENKAT MANEESH, 26/10/2024, 9:41 pm | Modified By | KEMBURU VENKAT MANEESH, 26/10/2024, 9:41 pm |

Creation of Fields for the Execution Details Object

Volunteer

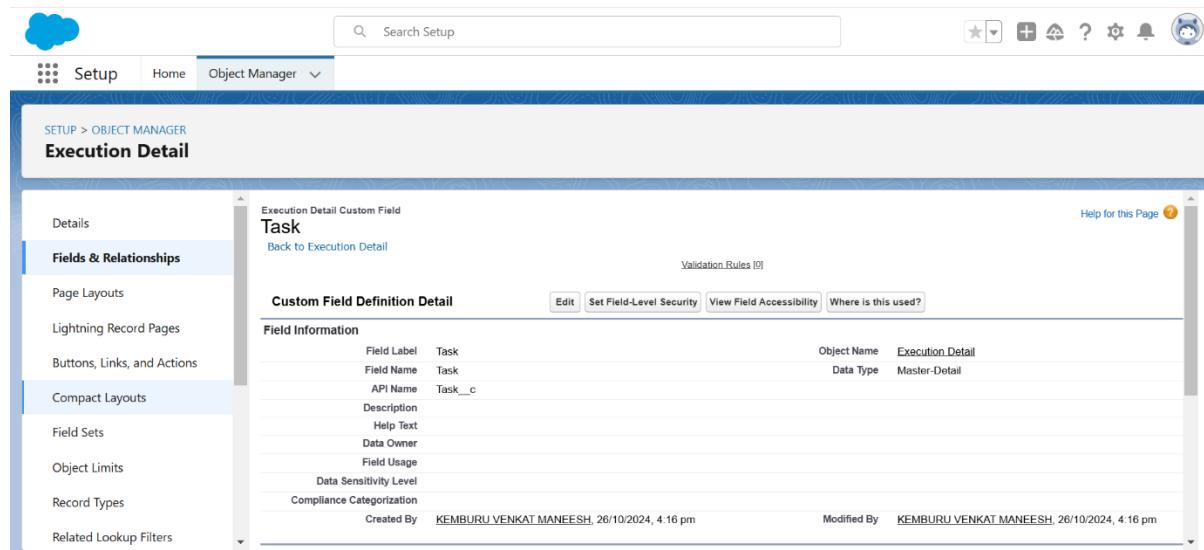


Execution Detail Custom Field Volunteer

Custom Field Definition Detail

| Field Label | Volunteer | Object Name | Execution Detail |
|---------------------------|---|-------------|---|
| Field Name | Volunteer | Data Type | Master-Detail |
| API Name | Volunteer__c | | |
| Description | | | |
| Help Text | | | |
| Data Owner | | | |
| Field Usage | | | |
| Data Sensitivity Level | | | |
| Compliance Categorization | | | |
| Created By | KEMBURU VENKAT MANEESH, 26/10/2024, 4:16 pm | Modified By | KEMBURU VENKAT MANEESH, 26/10/2024, 4:16 pm |

Task



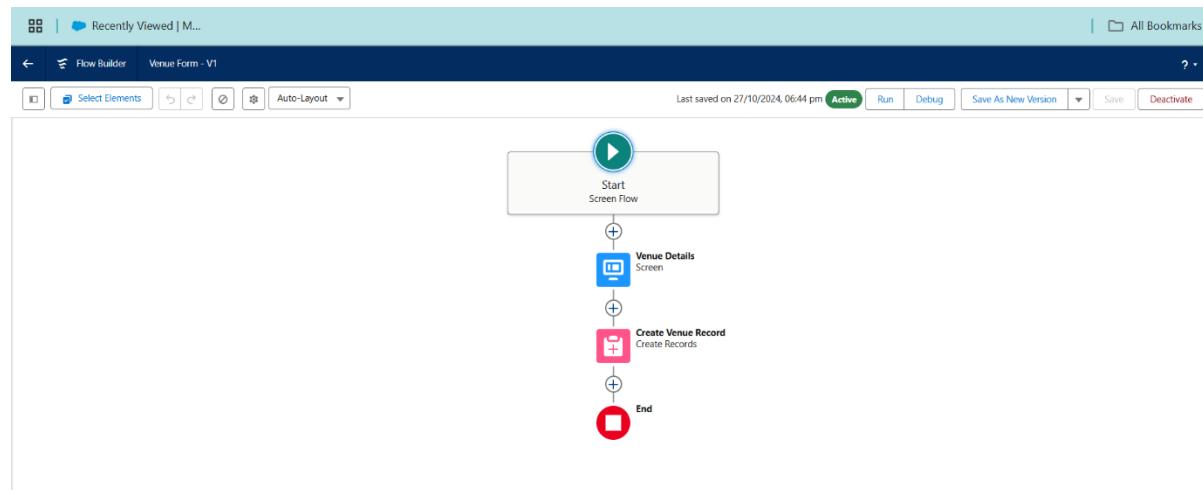
The screenshot shows the Salesforce Setup interface under the Object Manager. A custom field named 'Task' has been created for the 'Execution Detail' object. The field is of type Master-Detail, pointing to the 'Task' object. It has a label 'Task' and an API name 'Task__c'. The field was created by KEMBURU VENKAT MANEESH on 26/10/2024 at 4:16 pm.

6) 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

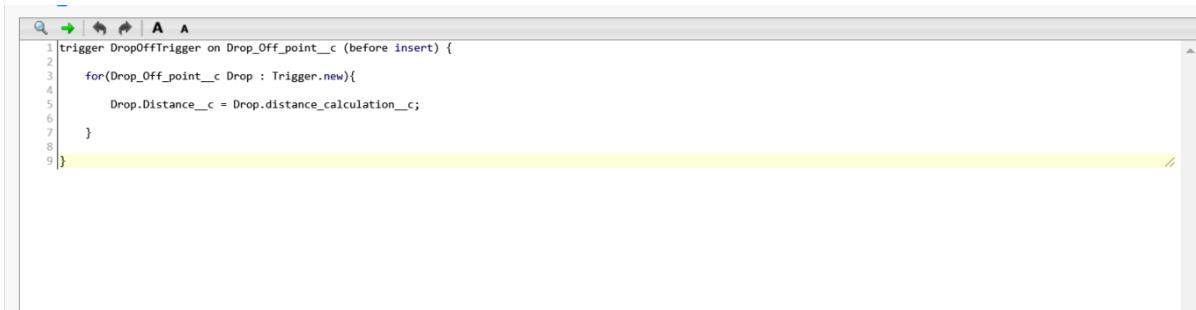


7) Trigger

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

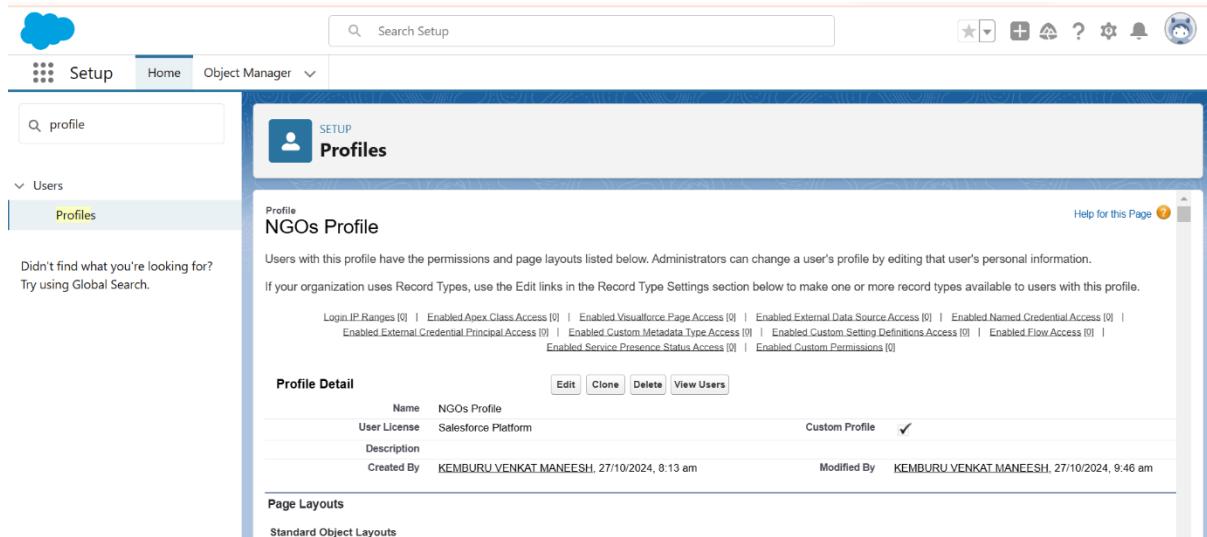


```
trigger DropOffTrigger on Drop_Off_point__c (before insert) {
    for(Drop_Off_point__c Drop : Trigger.new){
        Drop.Distance__c = Drop.distance_calculation__c;
    }
}
```

8) 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.



Profile
NGOs Profile

Users with this profile have the permissions and page layouts listed below. Administrators can change a user's profile by editing that user's personal information.

If your organization uses Record Types, use the Edit links in the Record Type Settings section below to make one or more record types available to users with this profile.

| | | | | | | | | | | |
|---------------------|-------------------------------|-------------------------------------|---|-------------------------------------|--|---|---|-------------------------|--|--------------------------------|
| Login IP Ranges [0] | Enabled Apex Class Access [0] | Enabled Visualforce Page Access [0] | Enabled External Data Source Access [0] | Enabled Named Credential Access [0] | Enabled External Credential Principal Access [0] | Enabled Custom Metadata Type Access [0] | Enabled Custom Setting Definitions Access [0] | Enabled Flow Access [0] | Enabled Service Presence Status Access [0] | Enabled Custom Permissions [0] |
|---------------------|-------------------------------|-------------------------------------|---|-------------------------------------|--|---|---|-------------------------|--|--------------------------------|

Profile Detail

| | | | |
|--------------|---|----------------|---|
| Name | NGOs Profile | Custom Profile | <input checked="" type="checkbox"/> |
| User License | Salesforce Platform | Created By | KEMBURU VENKAT MANEESH, 27/10/2024, 8:13 am |
| Description | | Modified By | KEMBURU VENKAT MANEESH, 27/10/2024, 9:46 am |
| Created By | KEMBURU VENKAT MANEESH, 27/10/2024, 8:13 am | Modified By | KEMBURU VENKAT MANEESH, 27/10/2024, 9:46 am |

Page Layouts

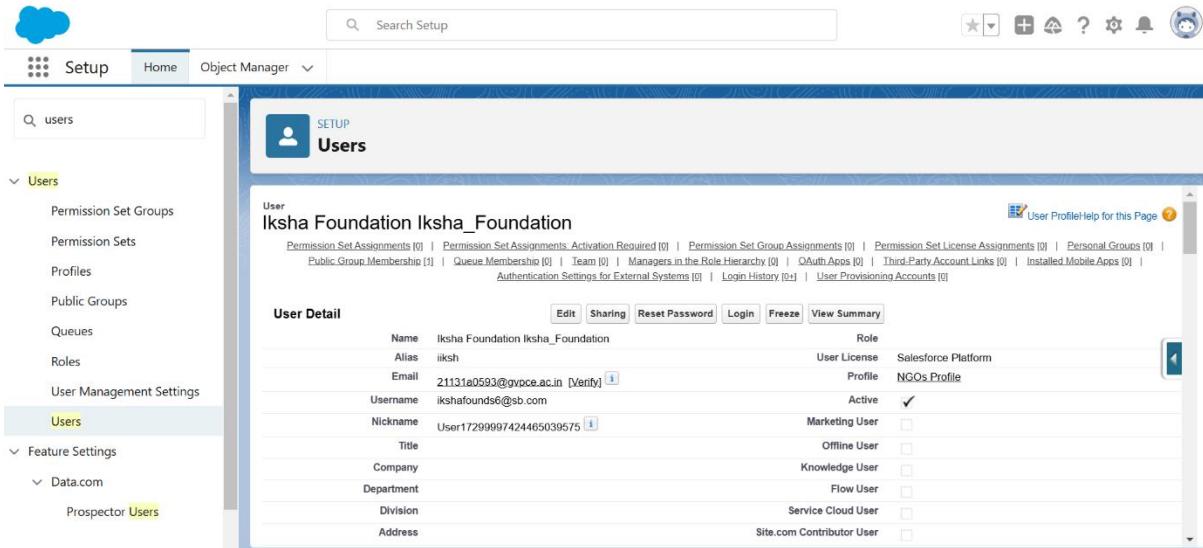
Standard Object Layouts

9) 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 Iksha

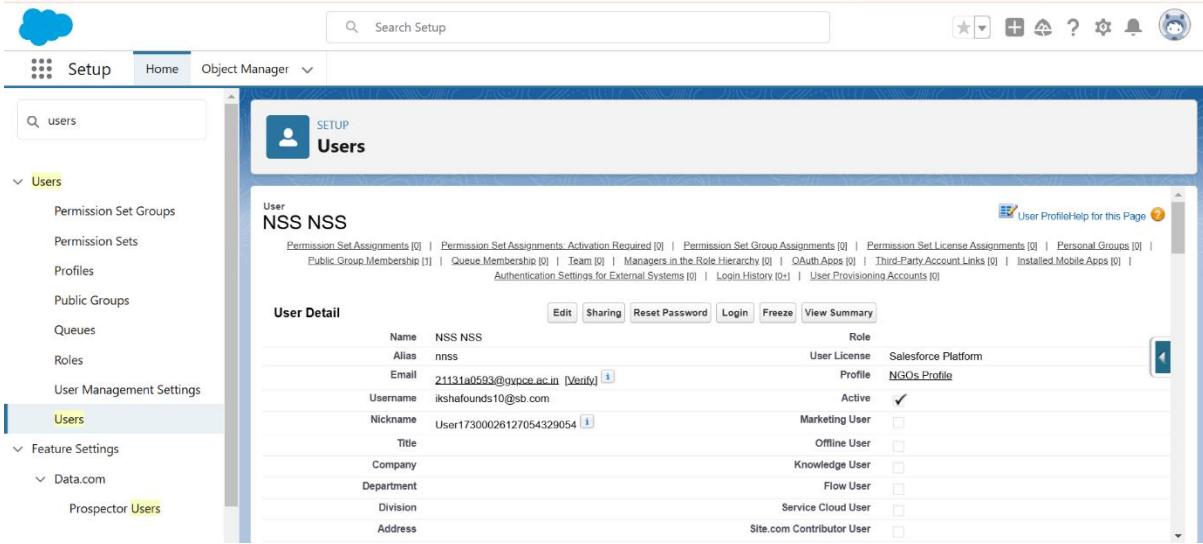


Iksha Foundation Iksha_Foundation

User Detail

| Name | Iksha Foundation Iksha_Foundation | Role | Salesforce Platform |
|------------|-----------------------------------|---------------------------|-------------------------------------|
| Alias | iksh | User License | NGOs Profile |
| Email | 21131a0593@gvocce.ac.in [Verify] | Profile | NGOs Profile |
| Username | ikshafounds6@sb.com | Active | <input checked="" type="checkbox"/> |
| Nickname | User1729997424465039575 | Marketing User | <input type="checkbox"/> |
| Title | | Offline User | <input type="checkbox"/> |
| Company | | Knowledge User | <input type="checkbox"/> |
| Department | | Flow User | <input type="checkbox"/> |
| Division | | Service Cloud User | <input type="checkbox"/> |
| Address | | Site.com Contributor User | <input type="checkbox"/> |

NSS

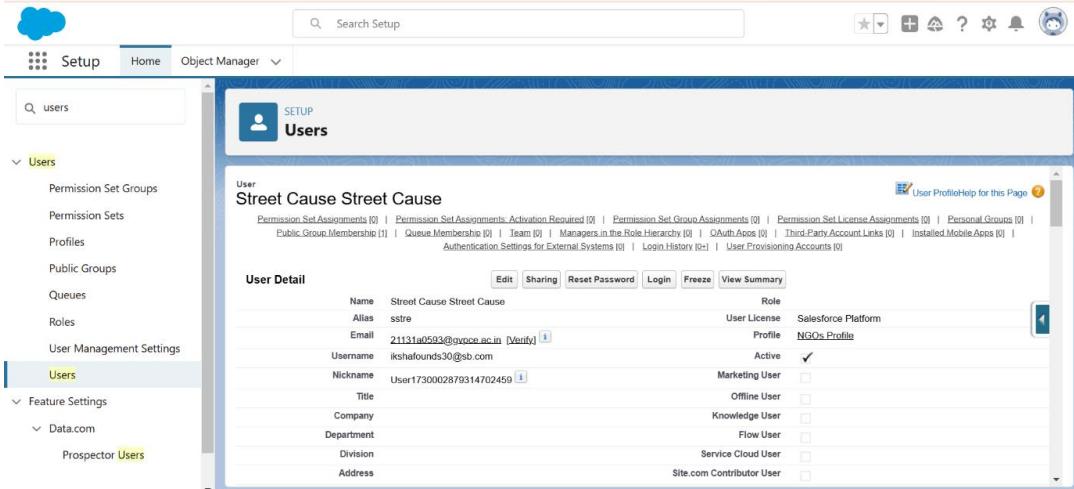


NSS NSS

User Detail

| Name | NSS NSS | Role | Salesforce Platform |
|------------|----------------------------------|---------------------------|-------------------------------------|
| Alias | nsss | User License | NGOs Profile |
| Email | 21131a0593@gvocce.ac.in [Verify] | Profile | NGOs Profile |
| Username | ikshafounds10@sb.com | Active | <input checked="" type="checkbox"/> |
| Nickname | User17300028127054329054 | Marketing User | <input type="checkbox"/> |
| Title | | Offline User | <input type="checkbox"/> |
| Company | | Knowledge User | <input type="checkbox"/> |
| Department | | Flow User | <input type="checkbox"/> |
| Division | | Service Cloud User | <input type="checkbox"/> |
| Address | | Site.com Contributor User | <input type="checkbox"/> |

Street Cause



Street Cause Street Cause

User Detail

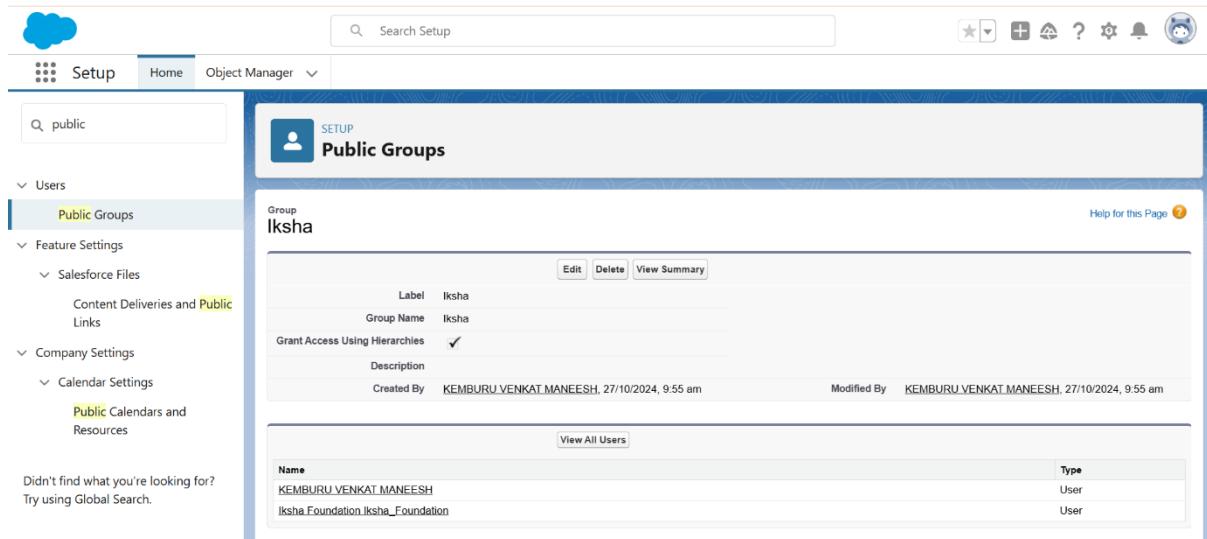
| Name | Street Cause Street Cause | Role | Salesforce Platform |
|------------|----------------------------------|---------------------------|-------------------------------------|
| Alias | sstre | User License | NGOs Profile |
| Email | 21131a0593@gvocce.ac.in [Verify] | Profile | NGOs Profile |
| Username | ikshafounds30@sb.com | Active | <input checked="" type="checkbox"/> |
| Nickname | User1730002879314702459 | Marketing User | <input type="checkbox"/> |
| Title | | Offline User | <input type="checkbox"/> |
| Company | | Knowledge User | <input type="checkbox"/> |
| Department | | Flow User | <input type="checkbox"/> |
| Division | | Service Cloud User | <input type="checkbox"/> |
| Address | | Site.com Contributor User | <input type="checkbox"/> |

10) 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



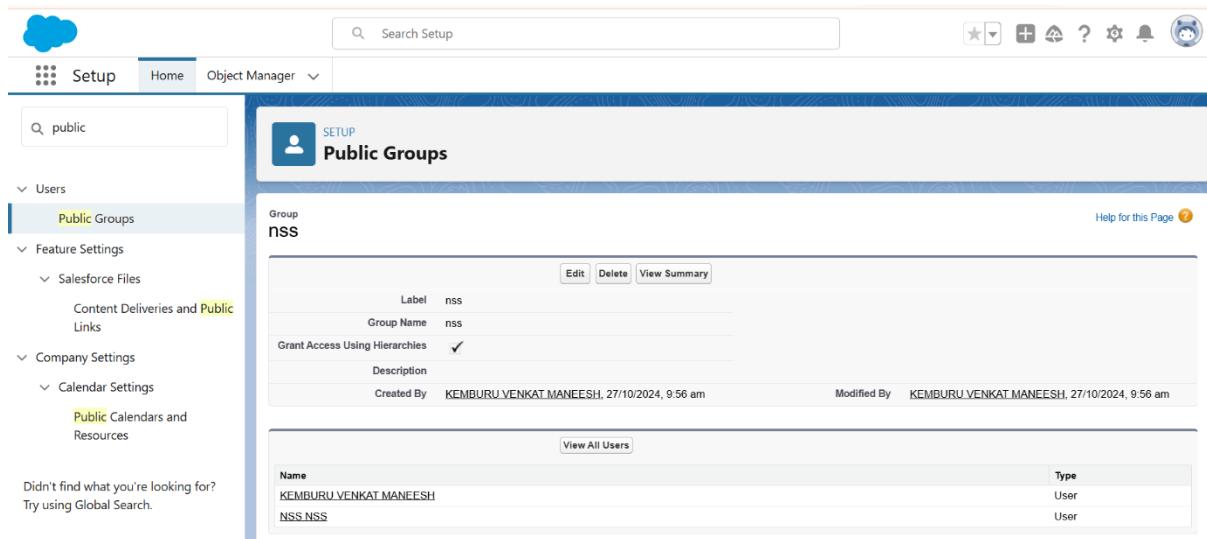
The screenshot shows the Salesforce Setup interface under the 'Users' section, specifically the 'Public Groups' page. The 'Iksha' group is selected. The group details are as follows:

| Label | Iksha |
|--------------------------------|---|
| Group Name | Iksha |
| Grant Access Using Hierarchies | <input checked="" type="checkbox"/> |
| Description | |
| Created By | KEMBURU VENKAT MANEESH, 27/10/2024, 9:55 am |
| Modified By | KEMBURU VENKAT MANEESH, 27/10/2024, 9:55 am |

Below the details, there is a 'View All Users' button and a table showing the members of the group:

| Name | Type |
|------------------------|------|
| KEMBURU VENKAT MANEESH | User |
| Iksha Foundation | User |

nss



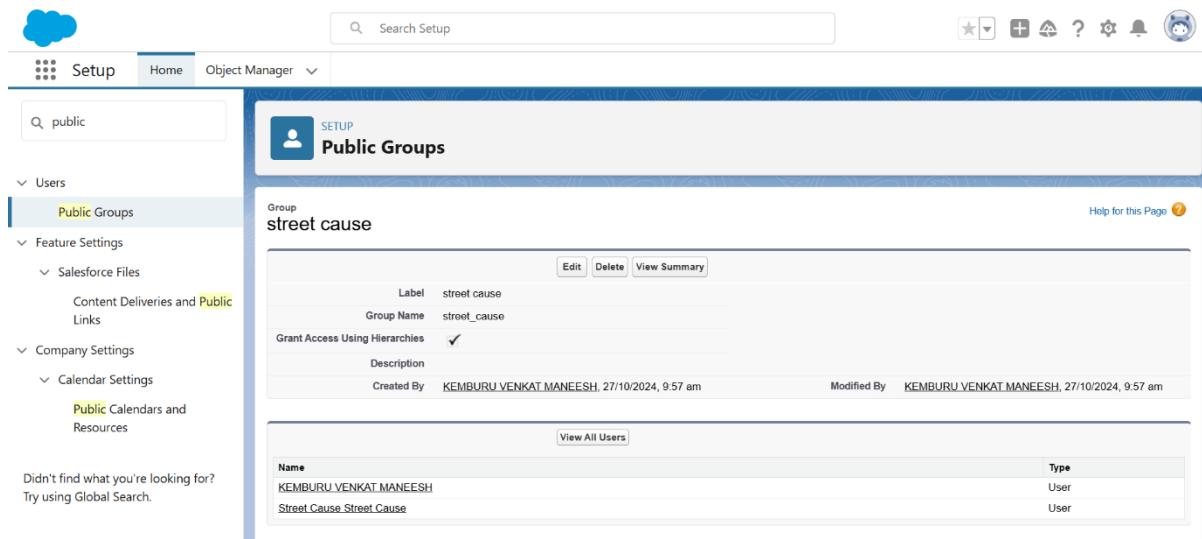
The screenshot shows the Salesforce Setup interface under the 'Users' section, specifically the 'Public Groups' page. The 'nss' group is selected. The group details are as follows:

| Label | nss |
|--------------------------------|---|
| Group Name | nss |
| Grant Access Using Hierarchies | <input checked="" type="checkbox"/> |
| Description | |
| Created By | KEMBURU VENKAT MANEESH, 27/10/2024, 9:56 am |
| Modified By | KEMBURU VENKAT MANEESH, 27/10/2024, 9:56 am |

Below the details, there is a 'View All Users' button and a table showing the members of the group:

| Name | Type |
|------------------------|------|
| KEMBURU VENKAT MANEESH | User |
| NSS NSS | User |

street cause



The screenshot shows the Salesforce Setup interface under the 'Public Groups' section. A group named 'street cause' is selected. The details page shows the following information:

- Label:** street cause
- Group Name:** street_cause
- Grant Access Using Hierarchies:** checked
- Description:** (empty)
- Created By:** KEMBURU.VENKAT.MANEESH, 27/10/2024, 9:57 am
- Modified By:** KEMBURU.VENKAT.MANEESH, 27/10/2024, 9:57 am

Below the details, a table lists users assigned to the group:

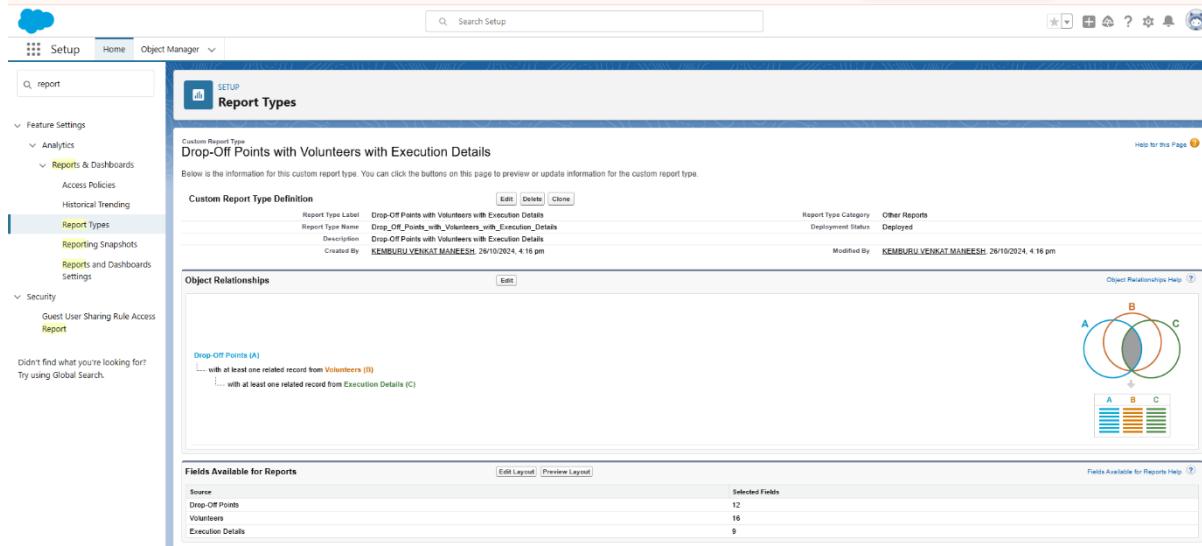
| Name | Type |
|---------------------------|------|
| KEMBURU.VENKAT.MANEESH | User |
| Street Cause Street Cause | User |

11) 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 under the 'Report Types' section. A custom report type named 'Drop-Off Points with Volunteers with Execution Details' is selected. The details page shows the following information:

- Custom Report Type Definition**
- Report Type Label:** Drop-Off Points with Volunteers with Execution Details
- Report Type Name:** Drop_Off_Points_with_Volunteers_with_Execution_Details
- Description:** Drop-Off Points with Volunteers with Execution Details
- Created By:** KEMBURU.VENKAT.MANEESH, 26/10/2024, 4:16 pm
- Report Type Category:** Other Reports
- Deployment Status:** Deployed
- Modified By:** KEMBURU.VENKAT.MANEESH, 26/10/2024, 4:16 pm

Below the details, the 'Object Relationships' section shows a diagram illustrating the relationships between three objects: A (Drop-Off Points), B (Volunteers), and C (Execution Details). The diagram shows overlapping circles A and B, and another circle C positioned below them.

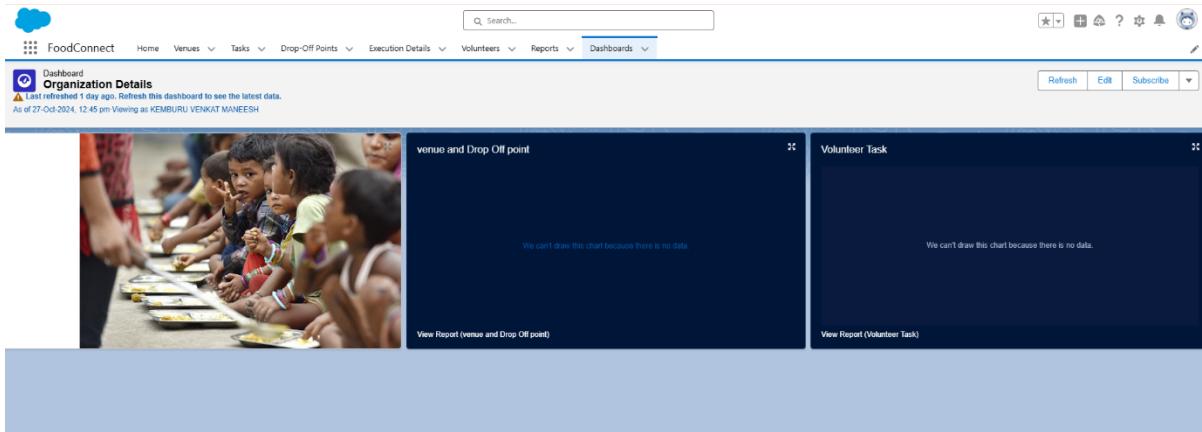
The 'Fields Available for Reports' section lists the following fields:

| Source | Selected Fields |
|-------------------|-----------------|
| Drop-Off Points | 12 |
| Volunteers | 16 |
| Execution Details | 9 |

12) Dashboards

What is a Dashboard?

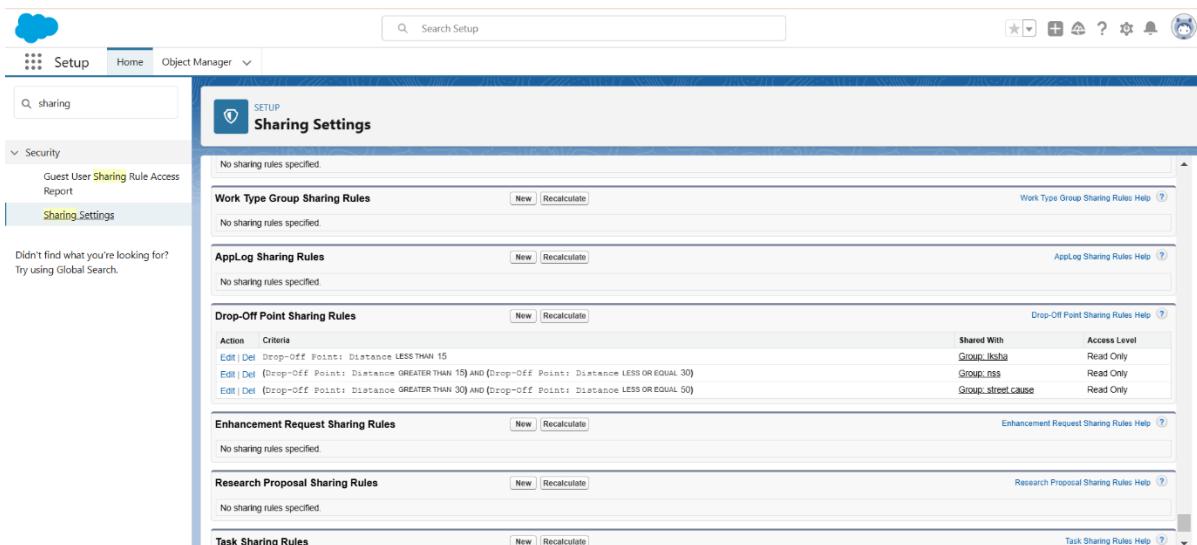
Dashboards are visual displays of key metrics and reports, providing a snapshot of business performance. They consist of multiple components like charts, graphs, and tables, offering insights and data visualization for decision-making.



13) 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 and a 'Sharing' section under 'Security'. The main area displays several sections of sharing rules:

- Work Type Group Sharing Rules**: No sharing rules specified.
- AppLog Sharing Rules**: No sharing rules specified.
- Drop-Off Point Sharing Rules**: A table lists three rules:

| Action | Criteria | Shared With | Access Level |
|------------|--|---------------------|--------------|
| Edit Del | Drop-Off Point: Distance LESS THAN 15 | Group: Issha | 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 cause | Read Only |
- Enhancement Request Sharing Rules**: No sharing rules specified.
- Research Proposal Sharing Rules**: No sharing rules specified.
- Task Sharing Rules**: No sharing rules specified.

5. Testing and Validation

To ensure the robustness of the system, the project incorporated multiple layers of testing:

- **Unit Testing**: For Apex classes and triggers, confirming all business logic performed as expected.
- **User Interface Testing**: Conducted to ensure a smooth and user-friendly experience, especially for mobile field agents updating delivery statuses.

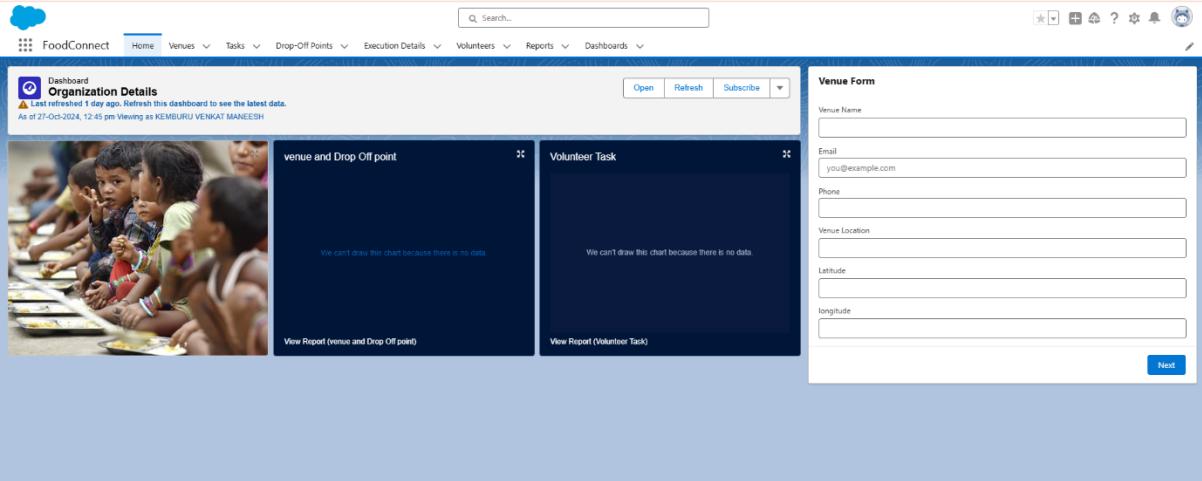
6. Key Scenarios Addressed by Salesforce in the Implementation Project

The project handles various real-life scenarios:

- Automated matching of food donations based on location and urgency.
- Real-time status updates for field agents during deliveries.
- Detailed reporting to track and evaluate donation efficiency, volunteer participation, and overall impact.

7. Conclusion

Summary of Achievements: This project successfully created a streamlined and transparent system for managing surplus food donations, reducing food waste, and addressing hunger. Through efficient coordination of donations and volunteer efforts, the solution maximized the positive impact on food security for underserved communities.



The screenshot shows the FoodConnect application interface. At the top, there is a navigation bar with links for Home, Venues, Tasks, Drop-Off Points, Execution Details, Volunteers, Reports, and Dashboards. A search bar is also present. Below the navigation bar, there is a banner for 'Organization Details' with a note about last refresh and viewing information. To the left, there are two cards: 'venue and Drop Off point' and 'Volunteer Task', both indicating no data available. To the right, there is a 'Venue Form' section with fields for Venue Name, Email, Phone, Venue Location, Latitude, and Longitude, along with a 'Next' button.