

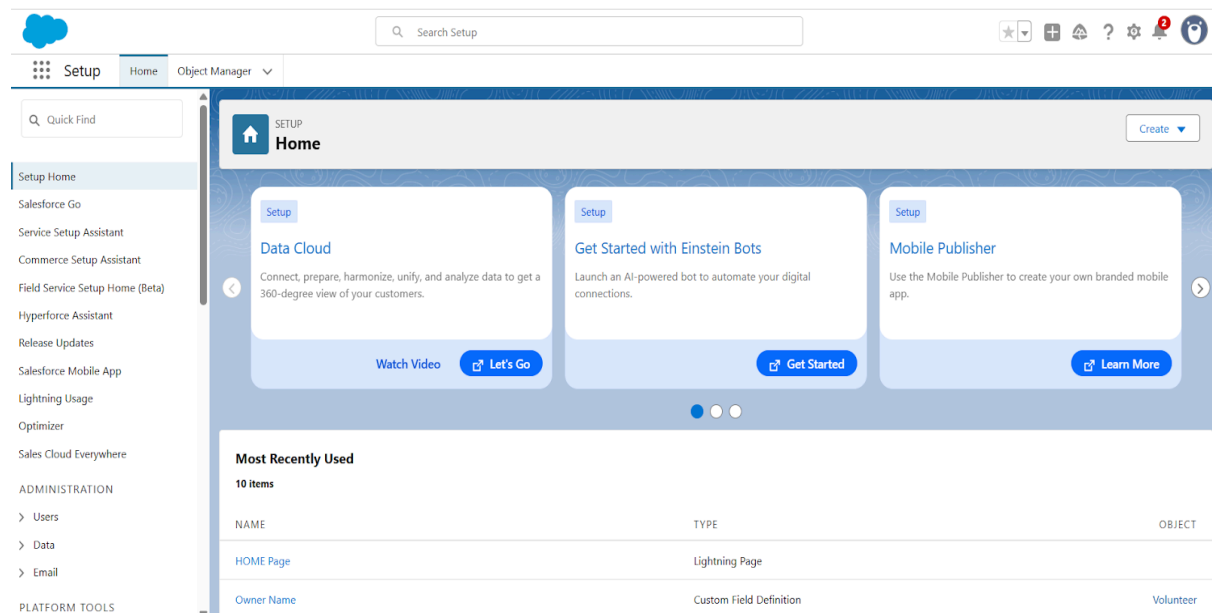
Project Execution Phase

Project Files

Date	27 June 2025
Team ID	LTVIP2025TMID38851
Project Name	TO SUPPLY LEFTOVER FOOD TO POOR

1. Developer Environment Setup:

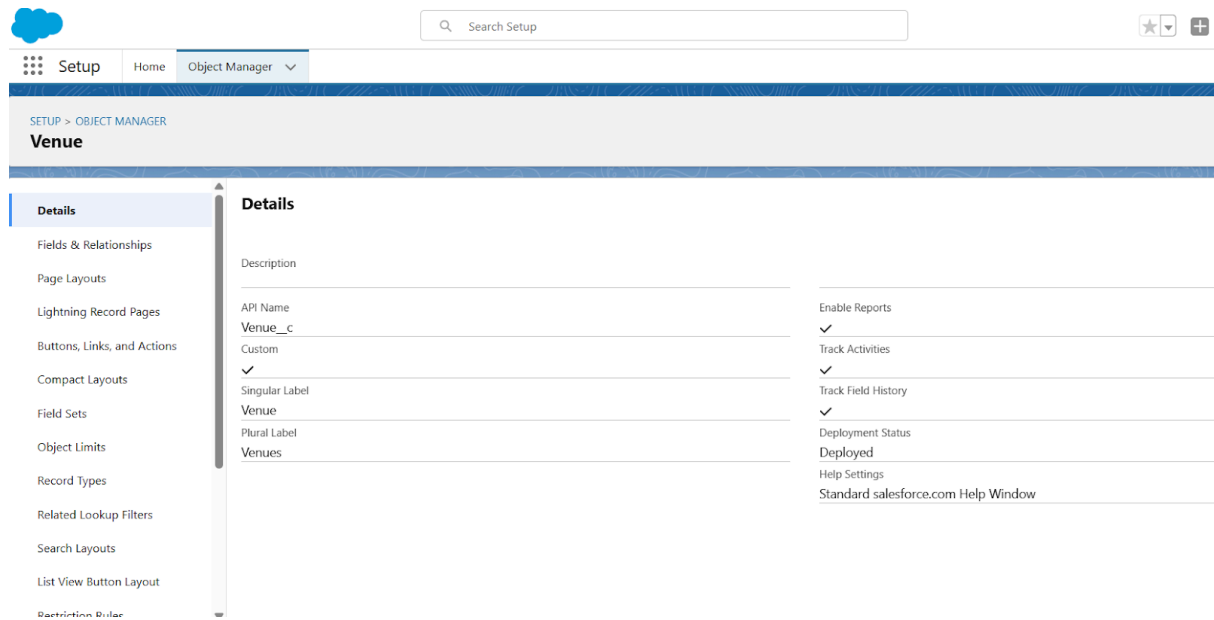
- Developer account creation on Salesforce
- Verification and login steps
- Navigating to Object Manager and Setup



2. Custom Object Creation:

Custom Object Creation in Salesforce is a key part of building tailored applications like the FoodConnect project. In this project, several custom objects such as **Venue**, **Drop-Off Point**, **Task**, **Volunteer**, and **Execution Detail** were created to represent real-world entities involved in food redistribution. Each object was designed with specific fields (like geolocation, contact info, food category, etc.) to capture and manage relevant data. These objects form the backbone of the application, enabling structured data storage, relationships, and automation for effective food supply coordination.

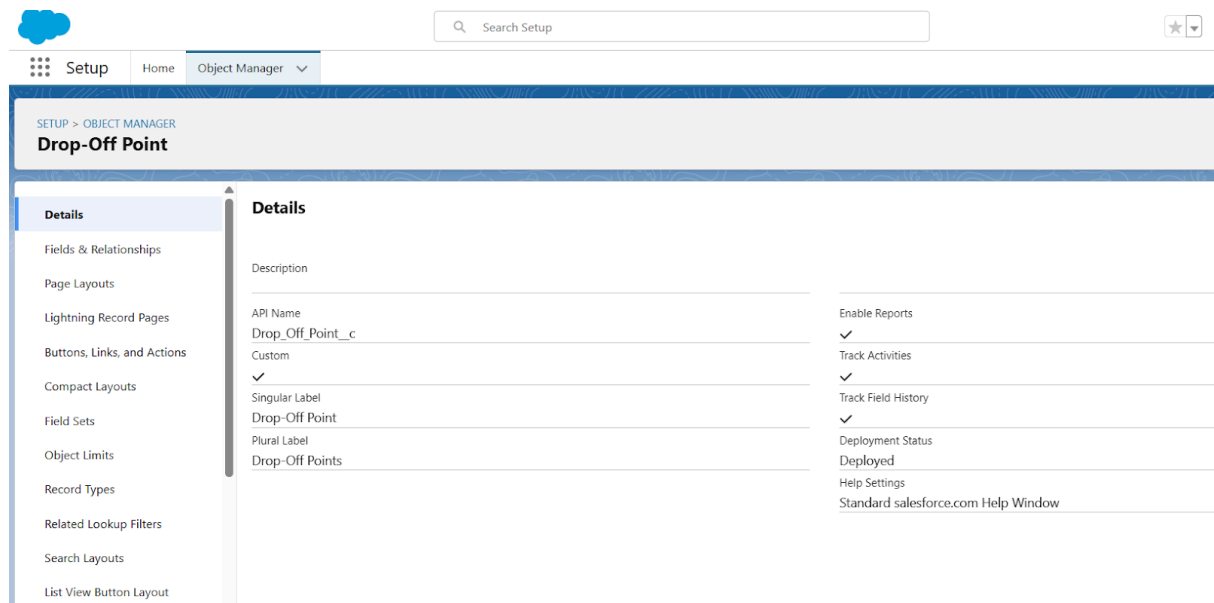
Venue Object – captures food donor info:



The screenshot shows the Salesforce Setup page for the Venue Object. The breadcrumb trail is 'SETUP > OBJECT MANAGER'. The left sidebar contains a 'Details' section with a scrollable list of configuration options: Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, List View Button Layout, and Restriction Rules. The main content area is titled 'Details' and displays the following configuration:

Field	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

Drop-Off Point Object – destination for food delivery:



The screenshot shows the Salesforce Setup page for the Drop-Off Point Object. The breadcrumb trail is 'SETUP > OBJECT MANAGER'. The left sidebar contains a 'Details' section with a scrollable list of configuration options: Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, List View Button Layout, and Restriction Rules. The main content area is titled 'Details' and displays the following configuration:

Field	Value
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

Task Object – represents food donation instance:

The screenshot shows the Salesforce Setup interface for the 'Task' object. The top navigation bar includes 'Setup', 'Home', and 'Object Manager'. The left sidebar lists various configuration options under the 'Details' section. The main content area displays the 'Task' object details, including its API Name, Custom status, Singular Label, Plural Label, and various settings like Enable Reports, Track Activities, and Deployment Status.

Task Object Configuration Details:

Field/Setting	Value/Status
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

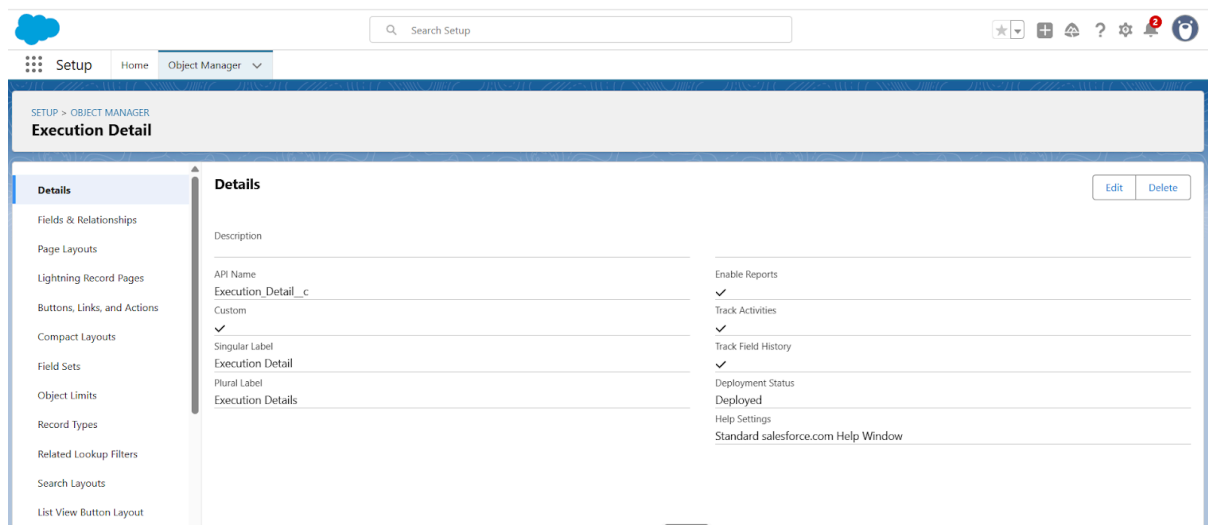
Volunteer Object – records NGO volunteer data:

The screenshot shows the Salesforce Setup interface for the 'Volunteer' object. The top navigation bar includes 'Setup', 'Home', and 'Object Manager'. The left sidebar lists various configuration options under the 'Details' section. The main content area displays the 'Volunteer' object details, including its API Name, Custom status, Singular Label, Plural Label, and various settings like Enable Reports, Track Activities, and Deployment Status. There are 'Edit' and 'Delete' buttons in the top right corner of the details section.

Volunteer Object Configuration Details:

Field/Setting	Value/Status
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

Execution Detail Object – links volunteers to tasks:

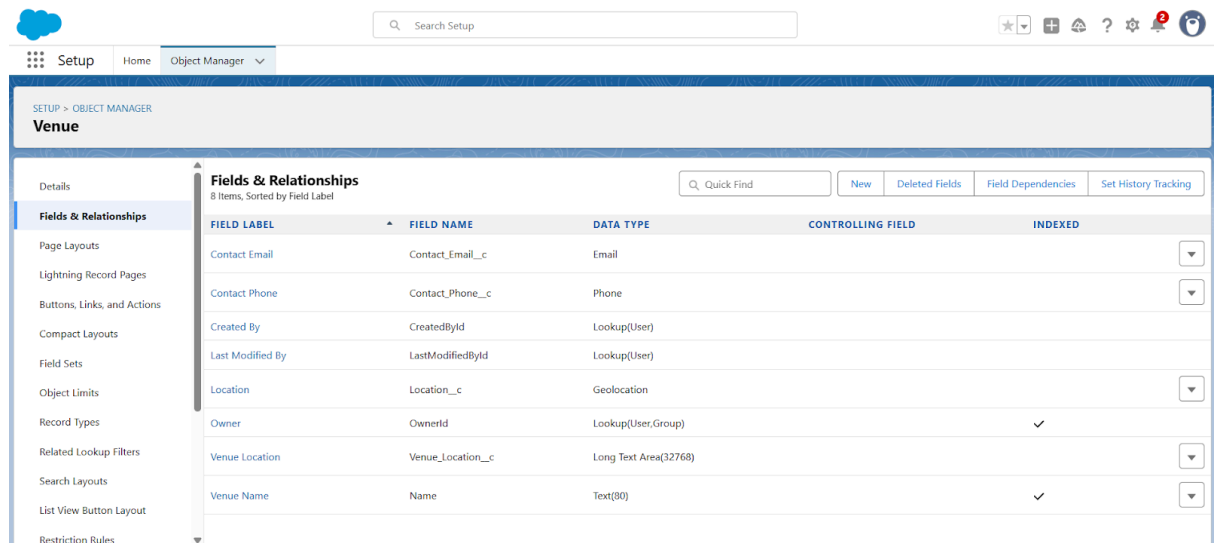


3. Custom Field Configuration:

Fields created for all objects (Text, Email, Phone, Geolocation, Picklist, Formula, etc.)

Examples:

- Venue: **Contact Email, Location, Venue Description**
- Task: **Food Category, Distance, Rating, Date**
- Volunteer: **Age, Email, Gender, Availability**



4. Object Relationships:

Master-Detail & Lookup relationships:

Volunteer → Drop-Off Point (M-D)

Execution Detail → Volunteer (M-D)

Execution Detail → Task (M-D)

Drop-Off Point → Venue (Lookup)

Task → Drop-Off Point and Venue (Lookup)

5. UI Tabs and App Configuration:

- Tabs created for each object (Venue, Task, Volunteer, etc.)
- Lightning App – "FoodConnect":
 - Includes all custom objects
 - Navigation set up for easy access

The screenshot displays the FoodConnect Lightning App interface. At the top, there's a navigation bar with the FoodConnect logo, a search bar, and various utility icons. Below this, a dashboard titled "Task Execution Details" is shown, with a subtitle "As of Jun 28, 2025, 4:50 AM" and a user indicator "Viewing as MOTAPOTHU HIMA SAI SINDHU". The dashboard contains three main sections: a table for "venue and Drop Off point", a "Volunteer Task" chart, and a "Venue Form".

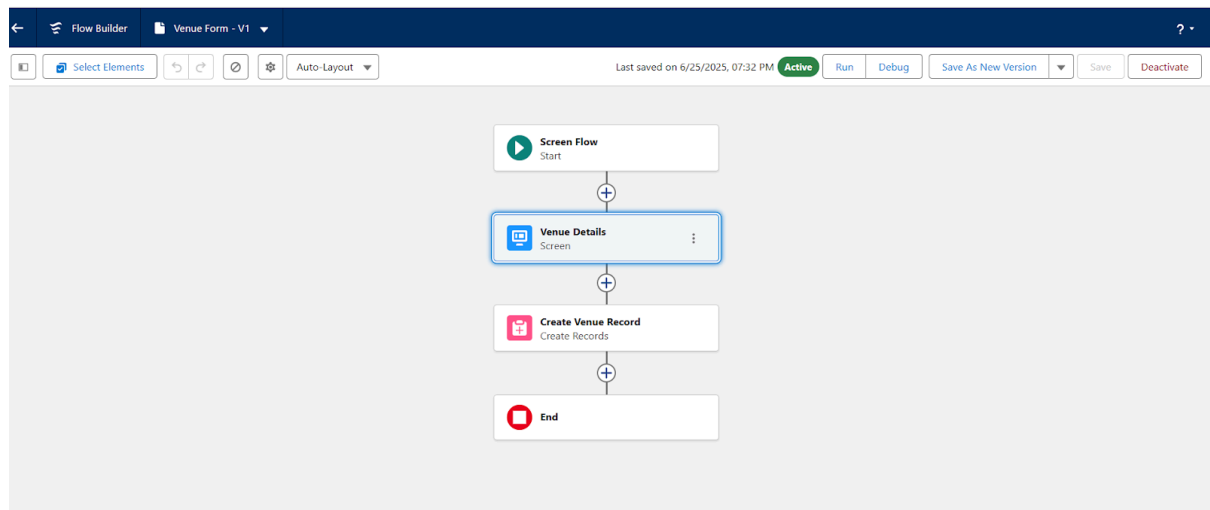
Venue Name	Drop-Off Point	Dis...
Food Park	Sarpavaram	10.00
Hungry Birds	Pitapuram	20.00
Ideal Institute of Technology	JNTUK	2.000
Jaya Residency	Bharugudi	7.000
Nicks Dine Inn	Tuni	60.00
Yati	Yanam	35.00

The "Volunteer Task" section features a line chart with "Record Count" on the y-axis (0 to 1) and "Volunteer: Volunteer ID" on the x-axis (1 to 4). The chart shows a constant record count of 1 for all volunteer IDs. Below the chart is a "View Report (Volunteer T..." link.

The "Venue Form" section on the right contains input fields for Venue Name, Email (pre-filled with "you@example.com"), Phone, Venue Location, Latitude, and Longitude. A "Next" button is at the bottom right.

6. Flow Automation:

- Venue Registration Flow (ScreenFlow)
 - Collects venue name, contact details, geolocation
 - Creates venue record automatically



7. Apex Trigger:

- **DropOffTrigger (before insert):**

Action	Name	Namespace Prefix	sObject Type	Api Version	Status	Size Without Comments	Last Modified By	Has Trace Flags
Edit Del	DropOffTrigger		DropOffPoint	64.0	Active	174	MOTAPOTHU HIMA SAI SINDHU, 6/28/2025, 4:57 AM	<input type="checkbox"/>

- Copies formula-based calculated distance to a usable field
- Used for sharing logic

8. Profiles, Users, and Access Control:

- **NGOs Profile:** Custom profile cloned from Standard Platform User
- **Users:** Created for each NGO (e.g., Iksha Foundation)
- **Public Groups:** Iksha, NSS, Street Cause for access segmentation

Setup

Home

Object Manager

Star

Share

Help

Settings

Notifications

Profile

Users

Public Groups

Didn't find what you're looking for? Try using Global Search.

SETUP

Public Groups

Public Groups

Help for this Page

A public group is a set of users. It can contain individual users, other groups, the users in a particular role or territory, or the users in a role or territory plus all of the users below that role or territory in the hierarchy.

View: All

Create New View

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Other All

Action	Label	Group Name	Created By	Created Date
Edit Del	Iksha	Iksha	HIMA SAI SINDHU. MOTAPOTHU	6/25/2025, 2:25 AM
Edit Del	NSS	NSS	HIMA SAI SINDHU. MOTAPOTHU	6/25/2025, 2:31 AM
Edit Del	Street Cause	Street Cause	HIMA SAI SINDHU. MOTAPOTHU	6/25/2025, 2:32 AM

9. Sharing Rules:

- Based on Distance criteria for Drop-Off Points:
 - Rule 1: Distance < 15 → Shared with Iksha**
 - Rule 2: 15 < Distance ≤ 30 → Shared with NSS**
 - Rule 3: 30 < Distance ≤ 50 → Shared with Street Cause**

Drop-Off Point Sharing Rules

New

Recalculate

Drop-Off Point Sharing Rules Help

Action	Criteria	Shared With	Access Level
Edit Del	Drop-Off Point: Distance LESS THAN 15	Group: Iksha	Read/Write
Edit Del	(Drop-Off Point: Distance GREATER THAN 15) AND (Drop-Off Point: Distance LESS OR EQUAL 30)	Group: NSS	Read/Write
Edit Del	(Drop-Off Point: Distance GREATER THAN 30) AND (Drop-Off Point: Distance LESS OR EQUAL 50)	Group: Street Cause	Read/Write

10. Reports and Analytics:

- Custom Report Types:**
 - Venue with Drop-Off and Volunteer
 - Volunteer with Execution and Tasks

Reports Created:

- Venue & Drop-Off Report
- Volunteer Task Report

FoodConnect

Home

Venues

Drop-Off Points

Tasks

Volunteers

Execution Details

Reports

Dashboards

Star

Share

Help

Settings

Notifications

Profile

Reports

Recent

3 items

New Report

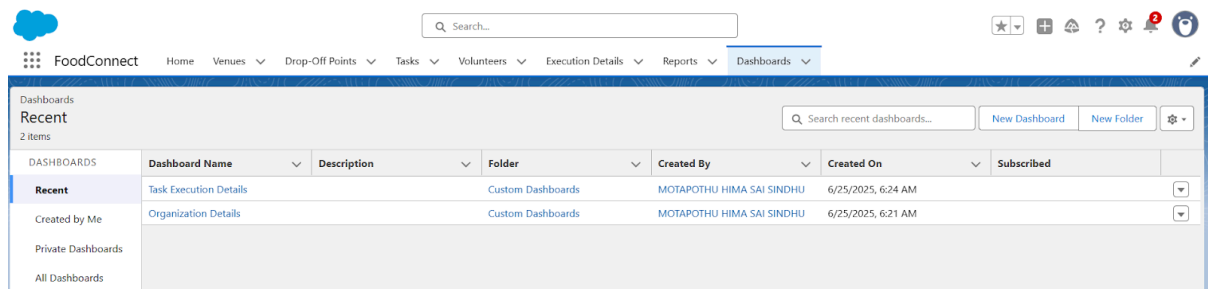
New Folder

Settings

REPORTS	Report Name	Description	Folder	Created By	Created On	Subscribed
Recent	Sample Flow Report: Screen Flows	Which flows run, what's the status of each interview, and how long do users take to complete the screens?	Public Reports	Automated Process	6/15/2025, 5:42 PM	<input type="checkbox"/>
Created by Me	Volunteer Task		Custom Reports	MOTAPOTHU HIMA SAI SINDHU	6/25/2025, 5:56 AM	<input type="checkbox"/>
Private Reports	venue and Drop Off point		Custom Reports	MOTAPOTHU HIMA SAI SINDHU	6/25/2025, 5:36 AM	<input type="checkbox"/>

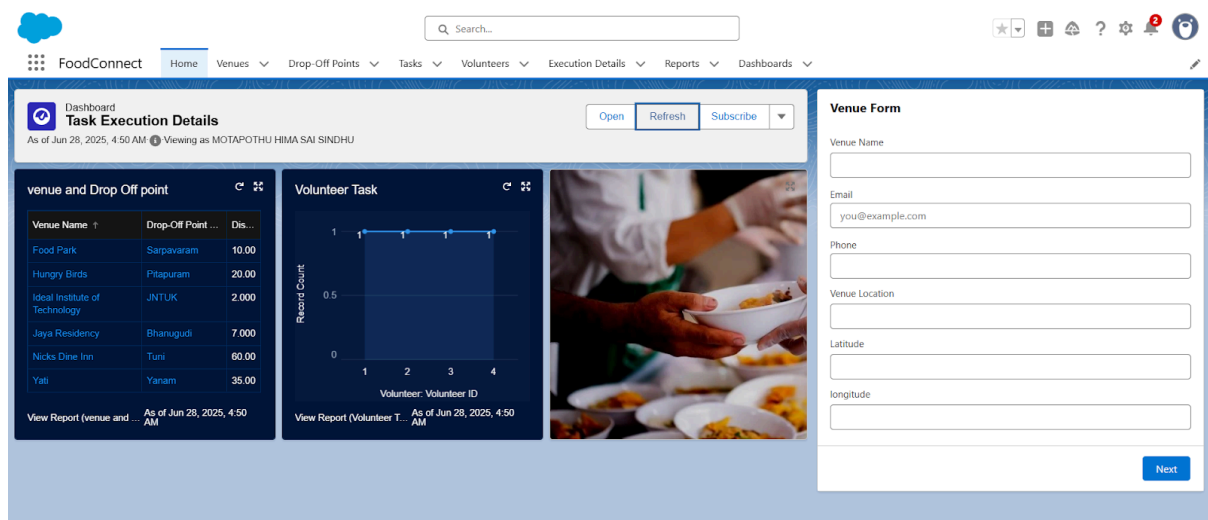
11.Dashboards:

- Dashboard: **Organization Details**
 - Lightning Table from venue-drop-off report
- Dashboard: **Task Execution Details**
 - Line chart from volunteer-task report
- Optional: Upload image and place it in the dashboard



12. Lightning Home Page:

- Home page built using **Lightning App Builder**
- Embedded:
 - **Venue Form Flow**
 - **Dashboards**
- Set as **App Default HomePage** for FoodConnect users



13. Testing and Review:

- Unit Testing of Trigger and Flows
- Functional testing of tab navigation and record creation
- **User Acceptance Testing (UAT)** with NGO users
- Final bug fixes and adjustments

14. Conclusion:

- End-to-end Salesforce app deployed
- Real-time coordination of food surplus, volunteers, and beneficiaries achieved
- Project supports transparency, accountability, and food justice