

TO SUPPLY LEFTOVER FOOD TO POOR

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1. INTRODUCTION

1.1 Project Overview

The project 'To Supply Leftover Food To Poor' is a Salesforce-based application designed to reduce food wastage by efficiently redistributing surplus food from various sources such as restaurants, events, and institutions to needy individuals. The system allows organizations to record available food, manage distribution requests, and track supply history in an organized and automated manner.

1.2 Purpose

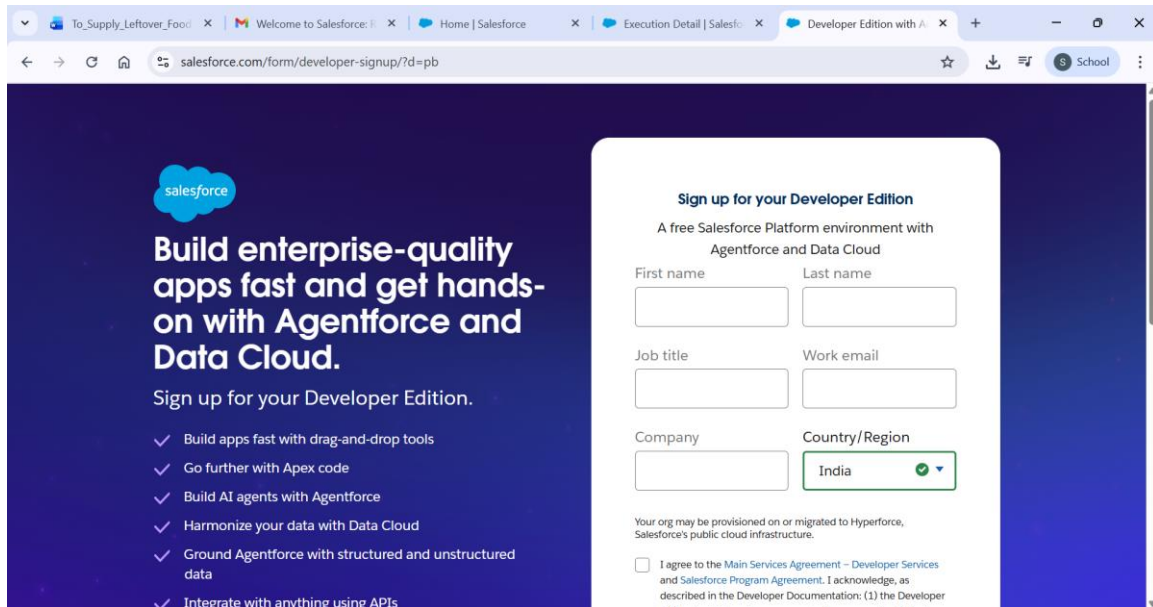
The purpose of this project is to build a centralized Salesforce application that enables easy management of leftover food donations. It ensures transparency, timely delivery, and effective coordination between donors and volunteers, while promoting social responsibility and reducing hunger.



2. DEVELOPMENT PHASE

Developer Account Creation

- Created a Salesforce Developer Account - <https://developer.salesforce.com/signup>



The screenshot shows the Salesforce Developer Edition signup page. The page has a dark blue background with the Salesforce logo and the text "Build enterprise-quality apps fast and get hands-on with Agentforce and Data Cloud." Below this, it says "Sign up for your Developer Edition." and lists several benefits with checkmarks: "Build apps fast with drag-and-drop tools", "Go further with Apex code", "Build AI agents with Agentforce", "Harmonize your data with Data Cloud", "Ground Agentforce with structured and unstructured data", and "Integrate with anything using APIs". On the right side, there is a white form titled "Sign up for your Developer Edition" with the subtitle "A free Salesforce Platform environment with Agentforce and Data Cloud". The form contains fields for "First name", "Last name", "Job title", "Work email", "Company", and "Country/Region". The "Country/Region" dropdown is set to "India". Below the form, there is a checkbox for "I agree to the Main Services Agreement - Developer Services and Salesforce Program Agreement. I acknowledge, as described in the Developer Documentation: (1) the Developer..." and a note: "Your org may be provisioned on or migrated to Hyperforce, Salesforce's public cloud infrastructure."

Object Creation

- Created objects : Venue, Task, Volunteer, Execution Details, Drop-off point

Browser tabs: To_Supply_Leftover_Food, Welcome to Salesforce: f, Home | Salesforce, Venue | Salesforce, - Student

Address bar: orgfarm-f2d487ce79-dev-ed.develop.my.salesforce-setup.com/lightning/setup/ObjectManager/01lgK000001svrx/Details/view

Search Setup

Setup Home Object Manager

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

Details

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

Edit

Delete

Browser tabs: To_Supply_Leftover_Food, Welcome to Salesforce: f, Home | Salesforce, Task | Salesforce, - Student

Address bar: orgfarm-f2d487ce79-dev-ed.develop.my.salesforce-setup.com/lightning/setup/ObjectManager/01lgK000001sw4r/Details/view

Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER

Task

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

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

Browser tabs: To_Supply_Leftover_Food, Welcome to Salesforce: f, Home | Salesforce, Volunteer | Salesforce, - Student

Address bar: orgfarm-f2d487ce79-dev-ed.develop.my.salesforce-setup.com/lightning/setup/ObjectManager/01lgK000001sw9h/Details/view

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

Details [Edit](#) [Delete](#)

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

Browser tabs: To_Supply_Leftover_Food, Welcome to Salesforce: f, Home | Salesforce, Execution Detail | Salesfo, - Student

Address bar: orgfarm-f2d487ce79-dev-ed.develop.my.salesforce-setup.com/lightning/setup/ObjectManager/01lgK000001sx0v/Details/view

Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER

Execution Detail

Details

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

Details [Edit](#) [Delete](#)

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

The screenshot shows the Salesforce Setup interface for the 'Drop-Off Point' object. The left sidebar contains a navigation menu with options like 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 content area is titled 'Drop-Off Point' and includes a 'Details' section with fields for API Name (Drop_Off_Point_c), Singular Label (Drop-Off Point), Plural Label (Drop-Off Points), and Description. There are also checkboxes for Enable Reports, Track Activities, Track Field History, and Deployment Status (Deployed). A 'Help Settings' link points to the Standard salesforce.com Help Window.

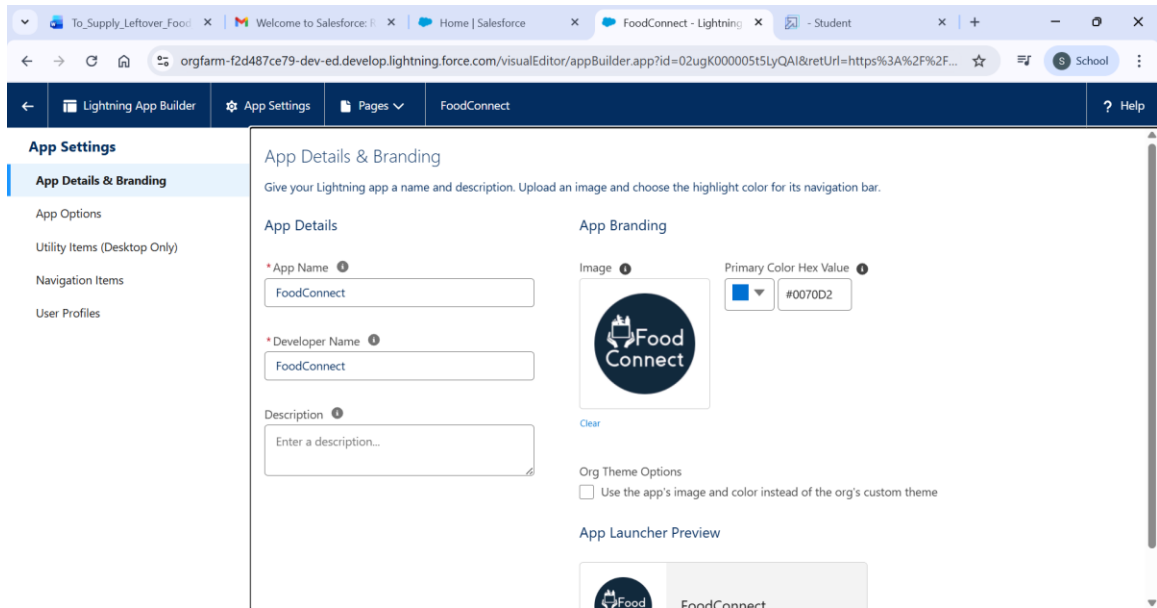
Tabs and Lightning App

- Created custom tabs for the objects - Venue, Task, Volunteer, Execution Details, Drop-off point

The screenshot shows the Salesforce Setup interface for the 'Custom Tabs' page. The left sidebar contains a navigation menu with options like Feature Settings, Analytics, Tableau, User Interface, and Console Settings. The main content area is titled 'Custom Tabs' and includes a 'Custom Object Tabs' table. The table has columns for Action, Label, Tab Style, and Description. The table lists five custom tabs: Drop-Off Points, Execution Details, Tasks, Venues, and Volunteers, each with a corresponding tab style icon.

Action	Label	Tab Style	Description
Edit Del	Drop-Off Points	Car	
Edit Del	Execution Details	Cup	
Edit Del	Tasks	Chalkboard	
Edit Del	Venues	Building	
Edit Del	Volunteers	Castle	

- Created a Lightning App



Fields

- Created Relationship fields in objects - Venue, Task, Volunteer, Execution Details, Drop-off point

orgfarm-f2d487ce79-dev-ed.develop.my.salesforce-setup.com/lightning/setup/ObjectManager/01lgK000001svrx/FieldsAndRelations...

Setup Home Object Manager

SETUP > OBJECT MANAGER

Venue

Details

Fields & Relationships

8 Items, Sorted by Field Label

Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Contact Email	Contact_Email__c	Email		
Contact Phone	Contact_Phone__c	Phone		
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Location	Location__c	Geolocation		
Owner	OwnerId	Lookup(User,Group)		✓
Venue Location	Venue_Location__c	Long Text Area(32768)		
Venue Name	Name	Text(80)		✓

orgfarm-f2d487ce79-dev-ed.develop.my.salesforce-setup.com/lightning/setup/ObjectManager/01lgK000001sw4r/FieldsAndRelations...

Setup Home Object Manager

SETUP > OBJECT MANAGER

Task

Details

Fields & Relationships

15 Items, Sorted by Field Label

Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Date	Date__c	Date		
Distance	Distance__c	Number(14, 4)		
Drop-Off Point	Drop_Off_Point__c	Lookup(Drop-Off Point)		✓
Feedback	Feedback__c	Long Text Area(32768)		
Food Category	Food_Category__c	Picklist (Multi-Select)		
Last Modified By	LastModifiedById	Lookup(User)		
Name of the Person	Name_of_the_Person__c	Text(20)		
Number of People Served	Number_of_People_Served__c	Number(18, 0)		
Owner	OwnerId	Lookup(User,Group)		✓

Browser tabs: To_Supply_Leftover_Food, Welcome to Salesforce: f, Home | Salesforce, Execution Detail | Salesfo, - Student

Address bar: orgfarm-f2d487ce79-dev-ed.develop.my.salesforce-setup.com/lightning/setup/ObjectManager/01lgK000001sx0v/FieldsAndRelationships/...

Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER

Execution Detail

Details

Fields & Relationships 5 Items, Sorted by Field Label

Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Execution Detail Name	Name	Text(80)		✓
Last Modified By	LastModifiedById	Lookup(User)		
Task	Task__c	Master-Detail(Task)		✓
Volunteer	Volunteer__c	Master-Detail(Volunteer)		✓

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

Browser tabs: To_Supply_Leftover_Food, Welcome to Salesforce: f, Home | Salesforce, Drop-Off Point | Salesfo, - Student

Address bar: orgfarm-f2d487ce79-dev-ed.develop.my.salesforce-setup.com/lightning/setup/ObjectManager/01lgK000001sw01/FieldsAndRelationships/...

Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER

Drop-Off Point

Details

Fields & Relationships 9 Items, Sorted by Field Label

Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Distance	Distance__c	Number(18, 0)		
distance calculation	distance_calculation__c	Formula (Number)		
Drop-Off Point Name	Name	Text(80)		✓
Last Modified By	LastModifiedById	Lookup(User)		
Location 2	Location_2__c	Geolocation		

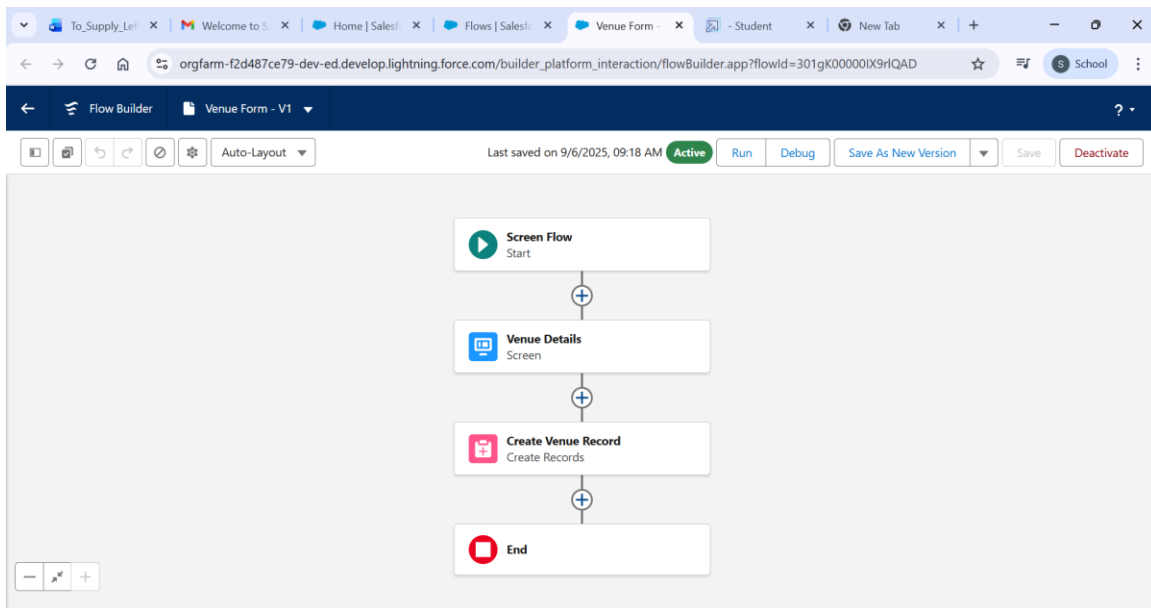
Fields & Relationships sidebar: Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters

The screenshot shows the Salesforce Setup interface for the 'Volunteer' object. The 'Fields & Relationships' section is active, displaying a list of 13 fields sorted by Field Label. The fields are:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Long Text Area(32768)		
Age	Age__c	Number(18, 0)		
Available On	Available_On__c	Date		
Contact Number	Contact_Number__c	Number(18, 0)		
Created By	CreatedById	Lookup(User)		
Date of Birth	Date_of_Birth__c	Date		

Flows

- Created Flow to create a record in Venue object



Triggers

- Created a Trigger on the object Drop-off Point

Developer Console - Google Chrome

orgfarm-f2d487ce79-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help < >

DropOffTrigger.apxt

Code Coverage: None API Version: 64 Go To

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

Logs Tests Checkpoints Query Editor View State Progress Problems

User	Application	Operation	Time	Status	Read	Size
------	-------------	-----------	------	--------	------	------

Filter Click here to filter the log list

Profiles

- Created a NGOs Profile

To Supply_Leftover: x Welcome to Sales: x Home | Salesforce x Profiles | Salesforce x Venue Form - V1 x - Student x + -

orgfarm-f2d487ce79-dev-ed.develop.my.salesforce-setup.com/lightning/setup/EnhancedProfiles/page?address=%2F00egK000004Z9yz

Search Setup

Setup Home Object Manager

pr

Hyperforce Assistant

Users

Profiles

Data

Mass Transfer Approval Requests

Feature Settings

Approval Settings

Data.com

Prospector Preferences

Prospector Users

Functions

Marketing

Lead Processes

SETUP Profiles

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

Edit Clone Delete View Users

Name	NGOs Profile
User License	Salesforce Platform
Description	
Created By	Sandhya.S, 9/1/2025, 4:21 AM
Modified By	Sandhya.S, 9/1/2025, 4:21 AM

Custom Profile ☒

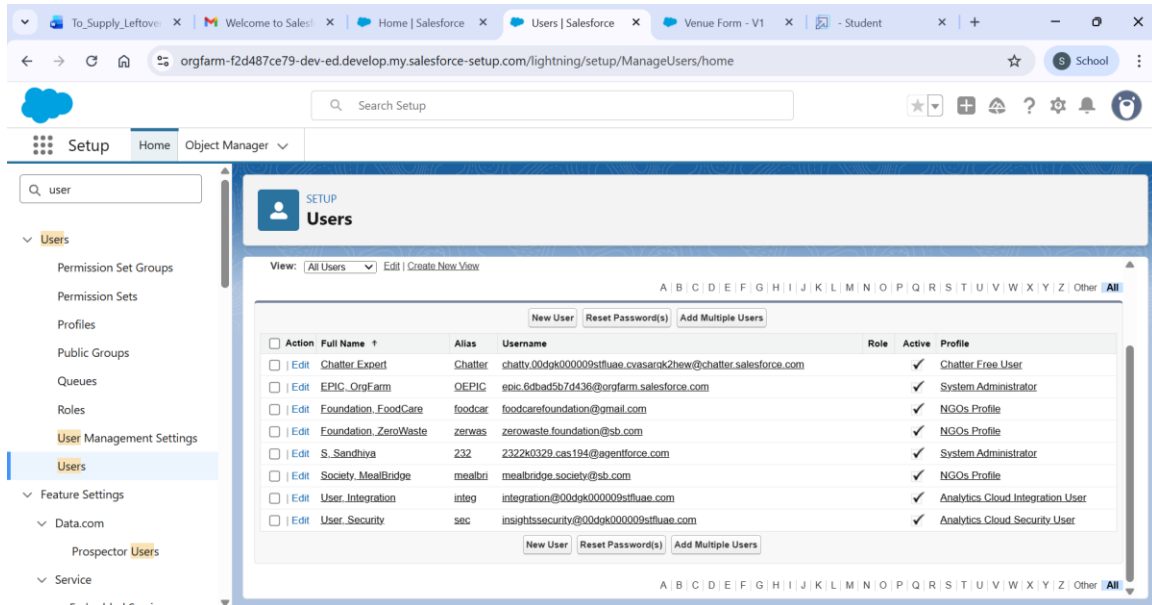
Page Layouts

Standard Object Layouts

Global Global Layout Lead Lead Layout

Creation of Users

- Created users – FoodCare Foundation, ZeroWaste Foundation, MealBridge Society



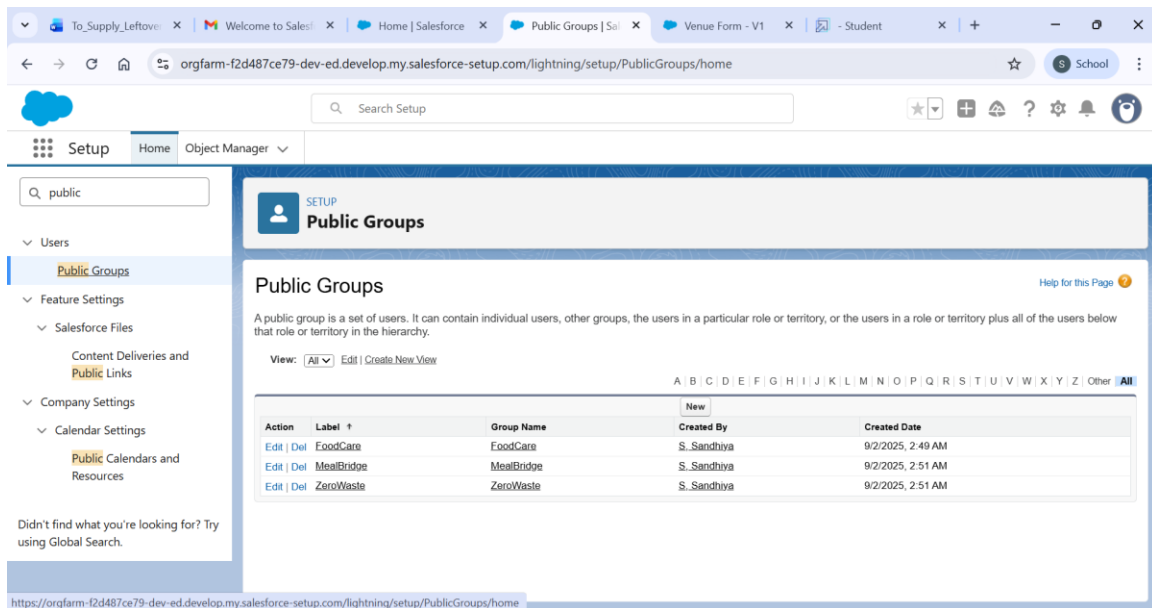
The screenshot shows the Salesforce Setup interface for the 'Users' section. The left sidebar contains a search bar with 'user' and a list of navigation items: Users, Permission Set Groups, Permission Sets, Profiles, Public Groups, Queues, Roles, User Management Settings, Users (highlighted), Feature Settings, Data.com, Prospector Users, Service, and Embedded Service. The main content area is titled 'SETUP Users' and includes a 'View: All Users' dropdown, 'Edit', and 'Create New View' links. Below these are buttons for 'New User', 'Reset Password(s)', and 'Add Multiple Users'. A table lists the following users:

Action	Full Name	Alias	Username	Role	Active	Profile
Edit	Chatter Expert	Chatter	chatty.00d9k000009stfuaa.cvasark2new@chatter.salesforce.com		✓	Chatter Free User
Edit	EPIG_OrgFarm	OEPIC	epic.6dbad5b7d436@orgfarm.salesforce.com		✓	System Administrator
Edit	Foundation_FoodCare	foodcae	foodcarefoundation@gmail.com		✓	NGOs Profile
Edit	Foundation_ZeroWaste	zerwas	zerowaste.foundation@sb.com		✓	NGOs Profile
Edit	S_Sandhya	Z32	Z322k0329_cas194@agentforce.com		✓	System Administrator
Edit	Society_MealBridge	mealbr	mealbridge.society@sb.com		✓	NGOs Profile
Edit	User_Integration	integ	integration@00d9k000009stfuaa.com		✓	Analytics Cloud Integration User
Edit	User_Security	sec	insightsecurity@00d9k000009stfuaa.com		✓	Analytics Cloud Security User

At the bottom of the table are buttons for 'New User', 'Reset Password(s)', and 'Add Multiple Users'. A alphabetical navigation bar is at the bottom right.

Public Groups

- Created Public Groups



The screenshot shows the Salesforce Setup interface for the 'Public Groups' section. The left sidebar contains a search bar with 'public' and a list of navigation items: Users, Public Groups (highlighted), Feature Settings, Salesforce Files, Content Deliveries and Public Links, Company Settings, Calendar Settings, Public Calendars and Resources, and a message: 'Didn't find what you're looking for? Try using Global Search.' The main content area is titled 'SETUP Public Groups' and includes a 'View: All' dropdown, 'Edit', and 'Create New View' links. Below these are buttons for 'New', 'Reset Password(s)', and 'Add Multiple Users'. A table lists the following public groups:

Action	Label	Group Name	Created By	Created Date
Edit Del	FoodCare	FoodCare	S_Sandhya	9/2/2025, 2:49 AM
Edit Del	MealBridge	MealBridge	S_Sandhya	9/2/2025, 2:51 AM
Edit Del	ZeroWaste	ZeroWaste	S_Sandhya	9/2/2025, 2:51 AM

At the bottom of the table are buttons for 'New', 'Reset Password(s)', and 'Add Multiple Users'. A alphabetical navigation bar is at the bottom right.

<https://orgfarm-f2d487ce79-dev-ed.develop.my.salesforce-setup.com/lightning/setup/PublicGroups/home>

Report Types

- Created Custom Report Types

The screenshot shows the Salesforce Setup page for Custom Report Types. The left sidebar contains navigation links for Setup, Home, and Object Manager. The main content area is titled "Custom Report Types" and shows the configuration for a report type named "Venue with DropOff with Volunteer".

Details

Field	Value
Display Label	Venue with DropOff with Volunteer
API Name	Venue_with_DropOff_with_Volunteer
Description	Venue with DropOff with Volunteer
Created By	Sandhya S, 9/2/25, 3:28 PM
Store in Category	other
Deployment Status	Deployed
Modified By	Sandhya S, 9/2/25, 3:28 PM

Fields

Source Object	Included Fields
Venues	13
Drop-Off Points	13
Volunteers	12

Object Relationships

The diagram shows three overlapping circles labeled A, B, and C. Circle A is labeled "Venues (A)", circle B is labeled "Drop-Off Points (B)", and circle C is labeled "Volunteers (C)". The relationships are defined as follows:

- A --- with or without related records from Drop-Off Points (B)
- B --- with or without related records from Volunteers (C)

Reports

- Created Reports on - Venue with DropOff with Volunteer, Volunteers with Execution Details and Tasks

The screenshot shows the Salesforce Reports page. The left sidebar contains navigation links for Reports, Recent, Created by Me, Private Reports, Public Reports, All Reports, FOLDERS, All Folders, Created by Me, Shared with Me, and FAVORITES. The main content area is titled "Recent" and shows a list of reports.

Report Name	Folder	Created On	Subscribed
Sample Flow Report: Screen Flows	Public Reports	8/24/2025, 11:20 AM	
Volunteer Task	Custom Reports	9/2/2025, 3:25 AM	
Venue and Drop Off point	Custom Reports	9/2/2025, 3:10 AM	
New Report	Private Reports	9/2/2025, 3:09 AM	

Dashboards

- Added venue and Drop Off point Report, Volunteer Task Reports to the Dashboard

The screenshot shows the Salesforce Dashboards interface. The top navigation bar includes links for Home, Venues, Drop-Off Points, Tasks, Volunteers, Execution Details, Reports, and Dashboards. The main content area is titled 'Dashboards' and 'Recent' with a search bar and buttons for 'New Dashboard' and 'New Folder'. A table lists recent dashboards:

DASHBOARDS	Dashboard Name	Description	Folder	Created On	Subscribed
Recent	Task Execution Details		Custom Dashboards	Sandhiya S	9/2/2025, 6:26 AM
Created by Me	Organization Details		Private Dashboards	Sandhiya S	9/2/2025, 6:08 AM

The left sidebar contains a navigation menu with sections: DASHBOARDS, FOLDERS, and FAVORITES. The 'Recent' dashboard is selected under DASHBOARDS.

Sharing Rules

- Created Sharing Rules

The screenshot shows the Salesforce Sharing Settings page. The left sidebar contains a navigation menu with sections: Setup, Security, and Sharing Settings. The 'Sharing Settings' section is selected. The main content area is titled 'Sharing Settings' and contains four sections:

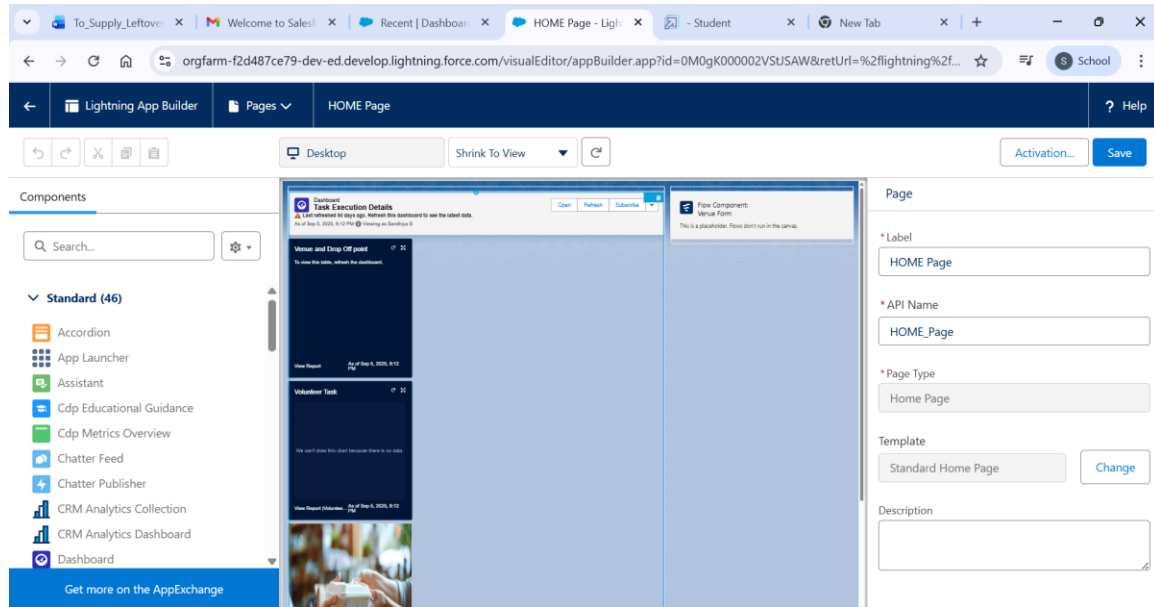
- Work Type Group Sharing Rules**: No sharing rules specified.
- Drop-Off Point Sharing Rules**: A table with 4 columns: Action, Criteria, Shared With, and Access Level.
- Task Sharing Rules**: No sharing rules specified.
- Venue Sharing Rules**: No sharing rules specified.

The 'Drop-Off Point Sharing Rules' table contains the following data:

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

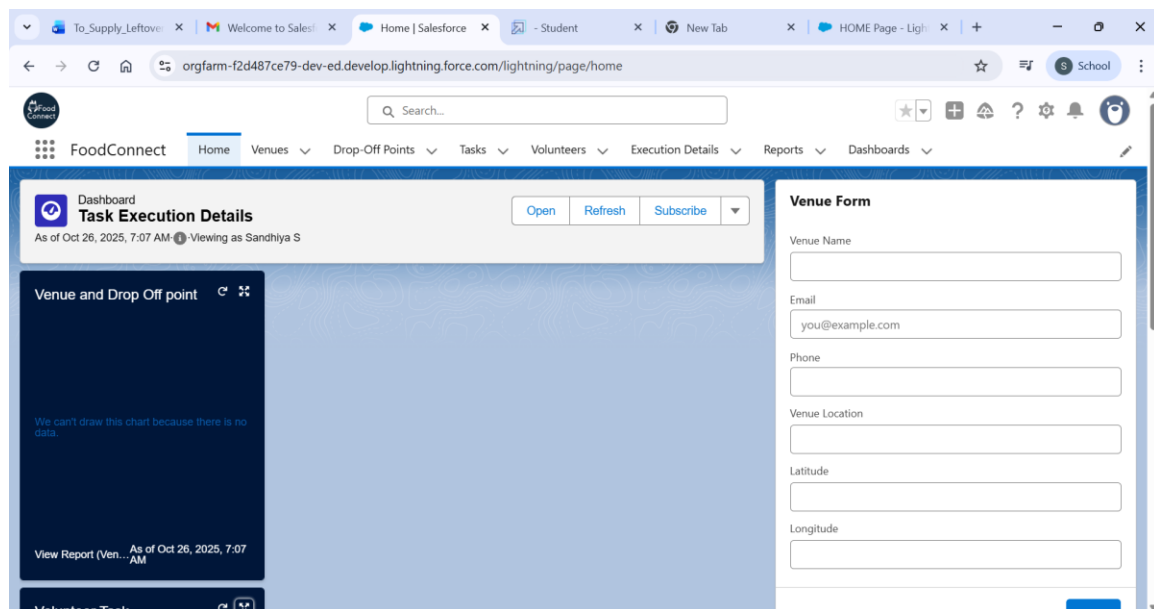
Home Page

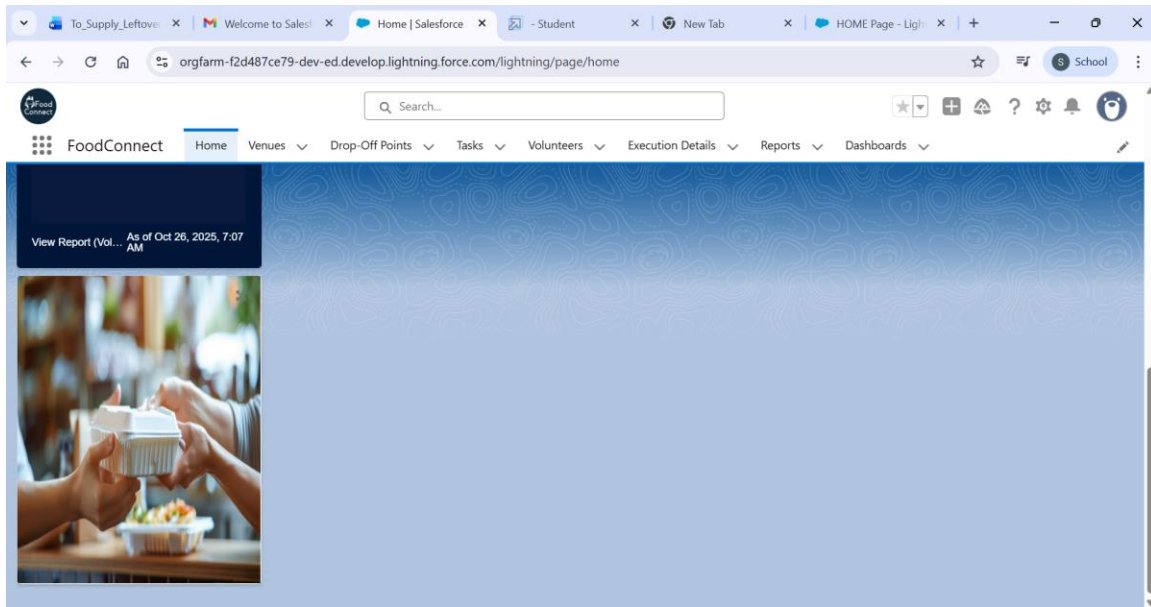
- Created the Home Page in Lightning App Builder



OUTPUT

The final Salesforce application provides various functionalities such as recording available food, assigning volunteers, and tracking deliveries. The system offers a user-friendly interface with dashboards and reports for clear visibility of food supply activities.





ADVANTAGES AND DISADVANTAGES

Advantages:

- Reduces food wastage by connecting donors and beneficiaries.
- Promotes social welfare and community engagement.
- Automates data management through Salesforce.
- Provides transparent tracking and reporting of food supplies.

Disadvantages:

- Requires consistent internet connectivity.
- Dependence on volunteer participation.
- Limited scalability without cloud-based expansion.

CONCLUSION

The Salesforce application 'To Supply Leftover Food To Poor' successfully demonstrates the use of cloud-based technology for social good. It efficiently manages food redistribution processes, minimizes waste, and ensures that excess food reaches those in need. This project showcases the practical implementation of Salesforce tools for humanitarian purposes and serves as a scalable model for future initiatives.