





# TO SUPPLY LEFT OVER FOOD TO POOR

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#### **Ideation Phase**

#### **The Problem Statements**

Date	31 October 2025
Team ID	NM2025TMID05871
Project Name	To Supply Leftover Food To Poor
Maximum Marks	2Marks

#### **Customer Problem Statement:**

Every day, large amounts of leftover food from hotels, restaurants, functions, and households go to waste, while many poor and homeless people struggle to get even one meal a day. There is no proper system to collect, store, and distribute this excess food efficiently before it gets spoiled. This leads to both food wastage and hunger coexisting in the same community. Therefore, there is a need for a reliable platform that connects food donors with needy people or charitable organizations in real time, ensuring that safe, edible leftover food reaches those who need it the most.

Problem	I	I am	But	Because	Which
Stateme	am(Custom	trying to			makes me
nt	er)				free
PS-1	A Restaurant	Donate	There is no	I don't	Frustrated
	Owner	leftover	proper	know	and
		Food to	platform	where or	helpless
		needy	to connect	how to	seeing
		people	with near	distribut	food
			by NGOs	e the	Wasted
			or poor	food	daily

			Communities	safety before it gets	
DC 2		6 11 1		spoiled	C. I
PS-2	Α	Collect	It's hard to	There's	Stressed
	Volunteer/N	and	identify	no	and
	GO	Distribut	available	centraliz	disappoint
	worker	ed	food	ed	ed when
		leftover	sources in	system	unable to
		food	time	to track	reach
		from		food	people in
		doners		availabili	need
				ty and	
				location	

#### **Problem Statement PS-1:**

As a restaurant owner, I am trying to donate leftover food to poor and homeless people, but there is no proper system to collect and distribute it efficiently. Because of this, I often have to throw away edible food, which makes me feel frustrated and guilty. A reliable platform to connect food donors with volunteers or NGOs could help reduce food waste and feed the hungry.

#### **Problem Statement PS-2:**

As a volunteer, I am trying to collect and distribute leftover food from restaurants and events to poor people, but it's difficult to locate and collect the food on time. Because there is no centralized system to track where food is available, I often miss opportunities to help the needy.

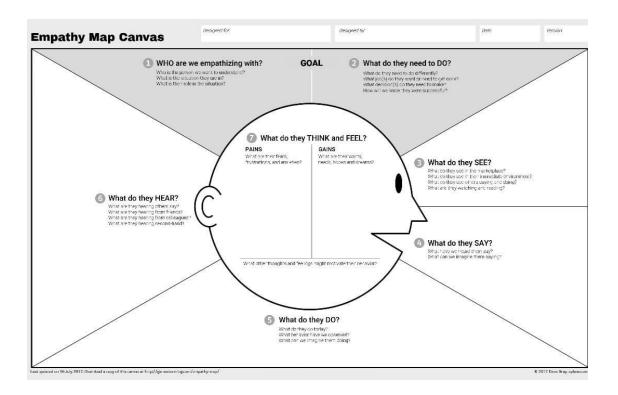
This makes me feel disappointed, as a lot of food goes to waste while people remain hungry.

## **Empathize & Discover**

Date	31 October 2025
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Maximum Marks	4 Marks

## **Empathy Map Canvas:**

The main users of this project are poor and homeless people who struggle daily to find food, along with restaurant owners, event organizers, and volunteers who wish to help but lack an organized system. The users say that they often see large amounts of food being wasted in restaurants and events while many people go hungry. Restaurant owners and event managers say that they want to donate leftover food but do not know the right process or place to give it safely. Poor people say they are unaware of where such food is distributed.



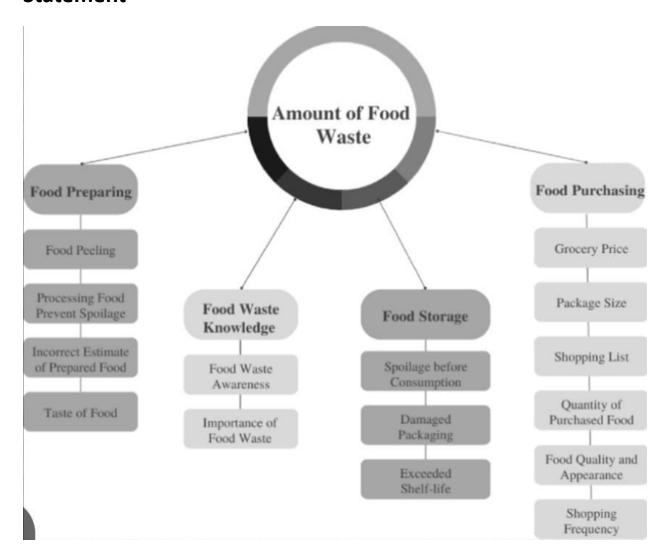
#### **Brainstorm & Idea Prioritization**

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	poor
Maximum Marks	4 Marks

## To supply leftover food to poor:

This guided project demonstrates how to create a system that helps distribute leftover food from restaurants, hotels, and events to poor and needy people. The idea focuses on reducing food wastage while ensuring that the food reaches the hungry in a safe and timely manner.

Step 1:Team Gathering, Collaboration, and Select the Problem Statement



Step-2: Brainstorm, Idea Listing and Grouping:

#### **Idea Listing:**

Create a mobile app to connect donors and NGOs.

Add GPS tracking for food pickup and delivery.

Send instant notifications to volunteers.

Include a food safety checklist.

Partner with NGOs and local authorities.

Use food collection vans for large donations.

Launch awareness campaigns to reduce food waste.

#### Idea prioritization:

After generating and grouping different ideas, the team prioritized them based on their feasibility, impact, and ease of implementation. Among all the ideas discussed, developing a mobile application named "Food Connect" was given the highest priority because it provides a simple and effective way to connect food donors, NGOs, and volunteers in real time. The next high-priority idea was adding GPS tracking and notification features, which would help locate nearby donors and ensure quick food collection before it gets wasted.



# **Project Planning Phase**

# Project planning (product Backlog, Sprint planning, Stories, Story points)

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## product Backlog, Sprint Schedule and Estimation

Spri nt	Functional Requireme nt	User Story Numb er	User Story Task	Story Point s	Priorit y	Team Membe rs
Sprin t -1	Donar Registration	USN-1	As a donor, I can register and share leftover food details	3	High	Keziah
Sprin t -1	NGO/Receiv er Registration	USN-2	As an NGO, I can register to receive available	3	High	Prathiba

			food donations			
Sprin t -2	GPS and Location Tracking	USN-3	As a volunteer, I can view donor and receiver locations on a map.	4	High	Harini
Sprin t -2	Food Safety Verification	USN-4	As an admin, I can verify food quality before pickup.	3	Mediu m	Harshini
Sprin t -3	Notification System	USN-5	As a user, I get notificatio ns when food is available nearby.	3	Mediu m	Keziah
Sprin t -3	Report and feedback	USN-6	As a user, I can submit feedback after food delivery.	2	low	Prathiba
Sprin t -4	Documentati on	USN-7	As a developer,	2	Mediu m	Harini

	I want to		
	document		
	the app		
	the app features		
	and		
	process		
	process flow		

Sprin	Total	Duratio	Sprint	Sprin	Story	Sprint
t	story	n	start	t End	Points	Releas
	point		date	Date	Complete	e date
	S				d	
Sprint-	20	6 days	31	5 June	20	5 June
1			May202	2025		2025
			5			
Sprint-	20	6 days	6 June	11	20	11 June
2			2025	June		2025
				2025		
Sprint-	20	6 days	12 June	18	19	18 June
3			2025	June		2025
				2025		
Sprint-	20	6 days	19 June	25	20	25 June
4			2025	June		2025
				2025		

## **Velocity:**

Average velocity = (Total Story Points Completed) / (Total Duration in Days)

Total: 79 points over 24 days → Velocity = 3.29 points/day

#### **Burndown Chart:**

A burndown chart represents the remaining work versus time for the project.

In this project, it helps track progress on developing the "Food Connect" app — showing how quickly each sprint completes user stories such as donor registration, GPS tracking, and notifications

## **Project Design Phase**

#### **Problem Solution Fit:**

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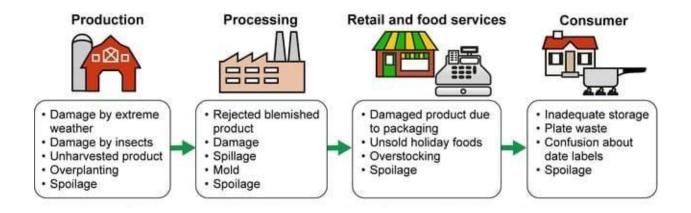
#### **Problem Solution Fit:**

The Problem–Solution Fit means identifying a real-world problem faced by the community and developing a suitable solution that effectively addresses it. This phase helps ensure that the solution meets the needs of both food donors and receivers while creating social impact by reducing food wastage and hunger.

#### **Purpose:**

1. Solve the issue of food wastage by efficiently connecting donors and NGOs.

- 2. Deliver leftover food to poor and needy people on time.
- 3. Build public awareness and trust by maintaining food safety and hygiene.
- 4. Use technology to make the food-sharing process quick ,transparent, and sustainable



# **Project design Phase Proposed solution**

Date	31 October 2025
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Maximum Marks	2 Marks

#### **Proposed Solution:**

S.no	Parameter	Description
1	Problem	Every day, large
	Statement	quantities of edible
		food are wasted in

	/5 11 - 1	
	(Problem to be	restaurants, hotels,
	solved)	and events, while
		many poor people
		struggle without
		meals. There is no
		organized system to
		collect and distribute
		leftover food safely
		and efficiently.
2	Idea / Solution	The solution is to
	Description	create a mobile
	•	application called
		"Food Connect" that
		connects food donors
		(hotels, restaurants,
		and individuals) with
		NGOs and volunteers
		who can collect and
		deliver the food to
		the needy. The app
		uses GPS to locate
		nearby donors and
		recipients in real time,
		ensuring quick
		distribution before
		food gets spoiled
3	Novelty /	The idea integrates
	Uniqueness	technology with social
	•	service by building a
		real-time, location-
		based platform for
		managing surplus
		food. It ensures

4	Social Impact / Customer Satisfaction	transparency, food safety, and time efficiency, which makes it stand out from traditional donation systems.  The project directly helps reduce hunger, improves the living conditions of poor people, and minimizes food wastage. Donors also experience satisfaction by contributing to society through a simple and reliable system.
5	Business Model (Revenue Model)	The app can collaborate with NGOs, sponsors, and local governments. Revenue can be generated through advertisements, partnerships, and CSR (Corporate Social Responsibility) programs from restaurants and food chains.

6	Scalability of the	The system can be
	Solution	expanded to multiple
		cities and integrated
		with government
		food safety programs.
		In the future, features
		like AI-based food
		prediction and cold
		storage tracking can
		be added to reach a
		larger audience.

#### **Conclusion:**

The project "To Supply Leftover Food to Poor" provides an innovative and practical solution to the growing issue of food wastage and hunger. By using technology to bridge the gap between food donors and the needy, this system ensures that safe, edible food is redirected to those in need instead of being thrown away. The Food Connect app creates a network of donors, volunteers, and NGOs, enabling fast and transparent food distribution.

## **Project Design Phase:**

#### **Solution Architecture**

Date	31 October 2025	
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Maximum Marks	4 Marks	

# Solution Architecture Goals of the Architecture

- a. Build a digital platform to connect food donors (restaurants, hotels, individuals) with NGOs and volunteers.
- b. Ensure safe and timely delivery of leftover food before it spoils.

### **Key Components:**

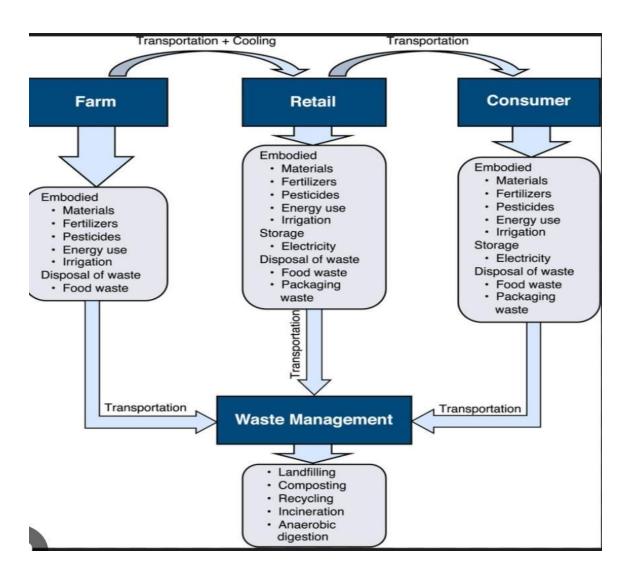
- 1. Donor Module: For restaurants, hotels, and individuals to register leftover food.
- 2. Volunteer/NGO Module: To receive food pickup and delivery requests.
- 3. Database: Stores donor, food item, location, and delivery details.

#### **Development Phases:**

- 1) Design donor and volunteer registration modules.
- 2) Develop database for storing food and location details.
- 3) Integrate GPS and notification systems
- 4) Build and test food request and delivery workflow.
- 5) Implement admin dashboard for monitoring and reporting.

### **Solution Architecture Description:**

The proposed solution architecture is designed to create an efficient and safe system for redistributing surplus food to the needy. The Food Connect application serves as a link between donors, NGOs, and volunteers through a digital platform. Donors can easily upload food availability details, while volunteers and NGOs can view nearby donation alerts via GPS tracking and respond for collection.



# **Project design phase-II**

# **Solution requirements(Functional and Non-functional)**

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Maximum Marks	4 Marks	

## **Functional Requirements:**

FR No.	Functional	<b>Sub Requirements</b>
	Requirements	
FR-1	Donor Registration	Restaurants, hotels, and individuals can register using mobile number, email, or Google sign-in.
FR-2	Food Donation Entry	Donors can upload details of leftover food (quantity, type, and pickup time).
FR-3	Volunteer/NGO Registration	NGOs and volunteers can register and verify their profiles.
FR-4	Food Request & Pickup	Volunteers receive alerts about nearby donations and accept pickup requests.

FR-5	GPS Tracking	Real-time tracking of donor and delivery locations.
FR-6	Notification System	Automatic alerts for new donations, confirmations, and delivery updates
FR-7	Admin Dashboard	Admin can monitor all users, donations, and delivery activities.

# **Non-Functional Requirements:**

FR No.	Non-Functional	Description
	Requirements	
NFR-1	Usability	The interface should
		be user-friendly for
		donors, NGOs, and
		volunteers
NFR-2	Security	All user data and
		food details should
		be stored securely
		with login
		authentication.
NFR-3	Reliability	The system should
		ensure accurate and
		timely food delivery
		without data loss.
NFR-4	Performance	The system should
		process donations
		and notifications

		quickly without delays.
NFR-5	Availability	The platform should be available 24/7 for donation and delivery operations.
NFR-6	Scalability	The system should handle an increasing number of donors and NGOs as it expands.

## **Project Design Phase-II**

#### **Data Flow Diagram & User Stories**

#### **Data Flow Diagrams:**

A Data Flow Diagram (DFD) represents the flow of information in the system. It shows how data enters and leaves the system, what processes it undergoes, and how it is stored. In the project "To Supply Leftover Food to Poor," the DFD illustrates how food donations are received, verified, and delivered to the needy through registered NGOs and volunteers. The system ensures smooth coordination between donors, NGOs, volunteers, and the admin, maintaining transparency and accountability.

#### **User Stories:**

User stories define what different users need from the system in simple, goal-focused language. In this project, they help ensure

timely food collection and delivery while maintaining food quality and transparency.

User Type	Function al- Require	User Story Num	User Story	Accept ance Criteria	Prior ity	Rele ase
	ments	ber				
Donar	Food Donation	USN-1	As a donor, I want to register and submit leftover food details for donation .	The system should allow donors to upload food details with location and quantity.	High	Sprint -1
Volunteer /NGO	Food Collection	USN-2	As a voluntee r, I want to receive alerts about nearby donation s and confirm pickup	Voluntee rs should receive realtime notificati ons for food availabili ty within their area	High	Sprint -2

Admin Monitorin USN-3 As an Admin Medi Sıgırı admin, I should um -2	print
g   aamin, i   snouid   um   -2	<b>^</b>
	2
want to have	
monitor access	
donation   to	
s and reports,	
deliverie maps,	
s to and	
ensure delivery	
proper logs for	
distributi   all	
on complet	
ed	
donation	
S.	
System Notificatio USN-4 As a Notificat High Si	print
n system, I ions -2	2
Managem want to must be	
ent automati triggere	
cally	
notify instantly	
NGOs upon	
and donation	
donors   submissi	
about on and	
food delivery	
status confirma	
updates. tion.	
Receiver Feedback USN-5 As a The Low Sp	print
Collection receiver, system -3	3
I want to should	
give allow	
feedback receivers	

about	to	
food	submit	
quality	simple	
and	feedbac	
service.	k forms	
	after	
	receiving	
	food.	

## **Project Design Phase-II**

## **Technology Stack (Architecture & Stack)**

Date	31 October 2025
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Maximum Marks	4 Marks

#### **Technical Architecture:**

The system enables restaurants, hotels, and households to donate leftover food, which is collected and distributed to nearby NGOs and needy people using a cloud-based application

**Table-1:Components And Technologies:** 

S No.	Components	Description	Technology
1	User Interface	Users (Donors,	HTML, CSS,
		Volunteers,	JavaScript,
		NGOs) interact	Bootstrap,
		through a	React

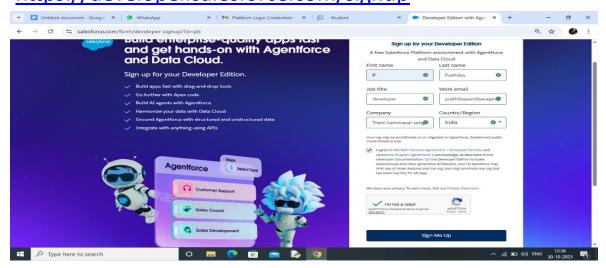
		web/mobile	
		арр	
2	Cloud Database	Managed and	AWS RDS /
		backed up on	Firebase
		cloud server	
3	File Storage	Stores food	AWS S3 /
		images and logs	Firebase
			Storage

# **Table-2: Application Characteristics:**

S.No.	Characteristics	Description	Technology
1	Open-Source	Entire system	Django, React,
	Frameworks	built using	MySQL
		open-source	
		technologies	
2	Security	Role-based	Django
	Implementation	login for Donor,	Authentication,
		Volunteer, NGO	JWT
3	Scalable	Cloud-based	AWS Cloud
	Architecture	and horizontally	Architecture
		scalable	
4	Availability	High availability	AWS Auto
		with cloud	Scaling / Cloud
		backup and	Load Balancer
		load balancing	

## **Creating developer account**

 I created my developer account using the link below https://developer.salesforce.com/signup



## **Object**

## To create an object:

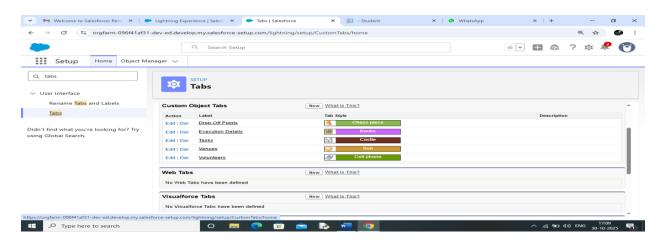
From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.

- 1. Venue object
- 2. Drop off point object
- 3. Task object
- 4. Execution detail object

#### **Tabs**

To Create a Tab:

Go to setup page >> type Tabs in Quick Find bar >> click on tabs
 >> New (under custom object tab)

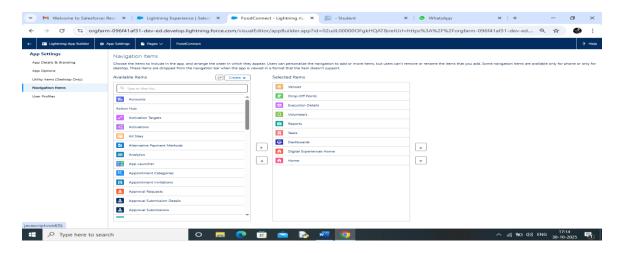


Now create the Tabs for the remaining Objects, they are "Drop-Off Point, Task, Volunteer, Execution Details".

## The Lightning App

Create a Lightning App:

1. Go to setup page >> search "app manager" in quick find >> select "app manager" >> click on New lightning App.



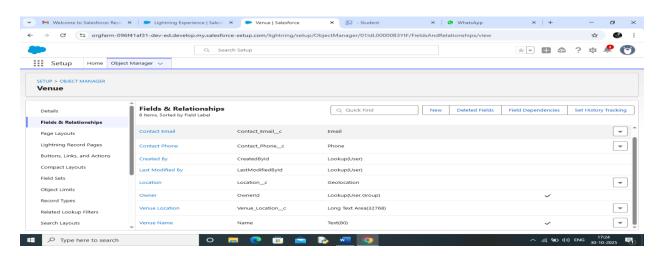
#### **Fields**

#### **Creation of Relationship fields in objects:**

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

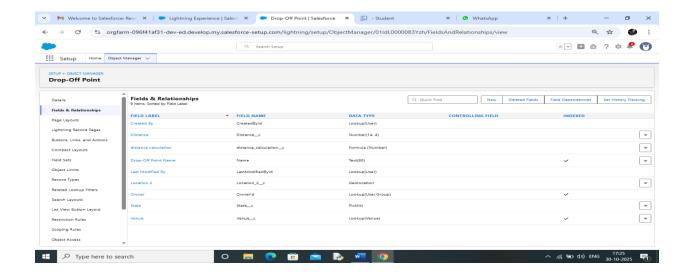
#### Creation of fields for the Venue objects:

- 1. Contact email
- 2. Contact phone
- 3. Location
- 4. Venue location



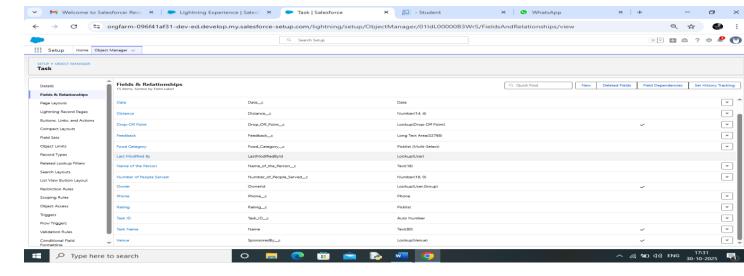
## Creation of fields for the Drop-Off point objects:

- 1.location
- 2. distance calculation
- 3.distance



## Creation of fields for the Task object

- 1.Task ID
- 2.date
- 3.food category
- 4. Number of People Served
- 5. Name of the person
- 6. Phone
- 7. Rating
- 8. Feedback

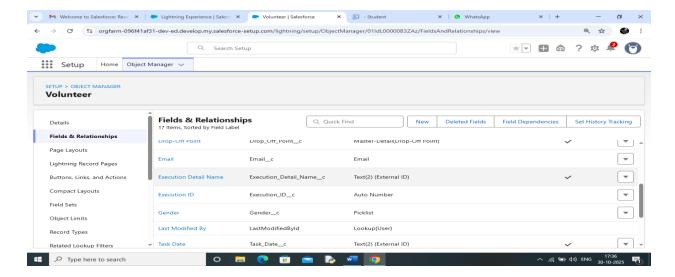


# **Creation of fields for the Volunteer object:**

- 1.Volunteer ID
- 2.Gender
- 3. Available On
- 4.Age
- 5.Email
- 6.Contact Number
- 7.Address
- 8.Date of Birth

# **Creation of fields for the Execution Details object:**

1.Execution ID



## **FLOWS**

## Create Flow to create a record in Venue object:

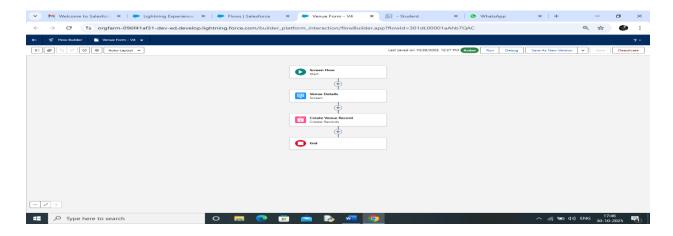
1. Go to setup >> type Flow in quick find box >> Click on the Flow and Select the New Flow.

Select the Screen flow. Click on create.

- 1. Venue Details
- 2.venue name
- 3. Email
- 4. Phone
- 5. Venue location
- 6. Latitude
- 7. Longitude

1. Click on the '+' icon in between Venue details and end, and click on create record element.

Now label it as Venue record



## **Trigger**

## Create a Trigger:

- 1. Log into the trailhead account, navigate to the gear icon in the top right corner.
- 2. Click on developer console and you will be navigated to a new console window.
- 3. Click on the File menu in the toolbar, and click on new >> Trigger.
- 4. Enter the trigger name and the object to be triggered.

## **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 } 🔻 | M. Welcome to Sale: X. | 🕳 Ughtning Experi: X. | 🍣 Flows | Salesfor: X. | 🤝 Developer Cons.: X. | 😂 Venue Form - V.: X. | 💆 - Student X. | 🕲 WhatsApp X. | + O cryfarm-096f41af31-dev-ed.develop.my.salesforce.com/\_ui/common/apex/debug/ApexCSIPage Apex Class

Apex Trigger

Visualforce Page

Visualforce Comp

Static Resource 
 Open Lightning Resources CTRL+SHIFT+A

 Open Log
 CTRL+G

 Open Raw Log
 CTRL+SHIFT+G
 CTRL+SHIFT+S Will Welcome to Sale: X: | Descripting Experience X: | Description Experience X: | Des File • Edit • Debug • Test • Workspace • Help • < > DropOffTrigger
Drop\_Off\_Point\_\_c Click here to filter the log list Type here to search

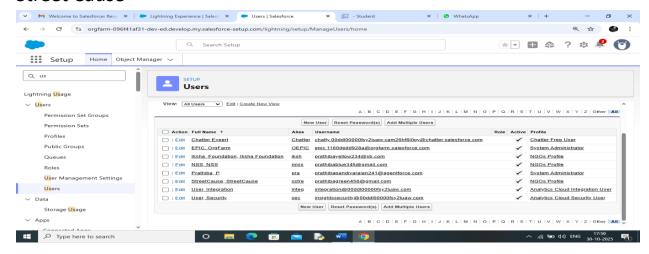
## **Profiles**

- Go to setup page >> type Profiles in Quick Find bar >> click on Profiles >> click on 'S'
- 2. Click on Clone beside Standard Platform User.
- 3. Under Clone Profile:
- 4. Profile Name: NGOs Profile

5. Then click on Save

## **Creation of Users**

- Go to setup page >> type users in Quick Find bar >> click on users>> New user. In General Information give details as: (Note: create users as per your wish NGO's)
- Iksha foundation
- NSS
- Street Cause

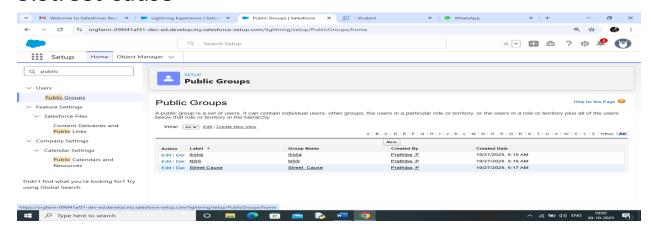


# **Public Groups**

## Creation of Public Group:

- 1. Go to setup page >> type Public Groups in Quick Find bar >> click on Public Groups >> click on New.
- 2. Under Group Information:
- 1.lksha

- 2.NSS
- 3.Street Cause

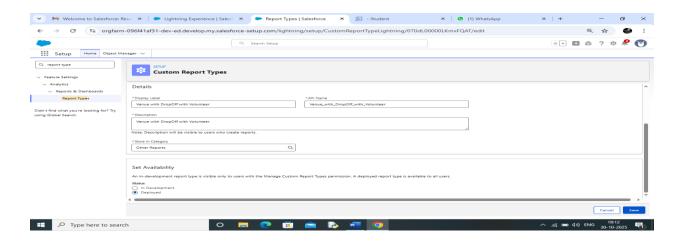


## **Report Types**

#### **Creation of Report Types:**

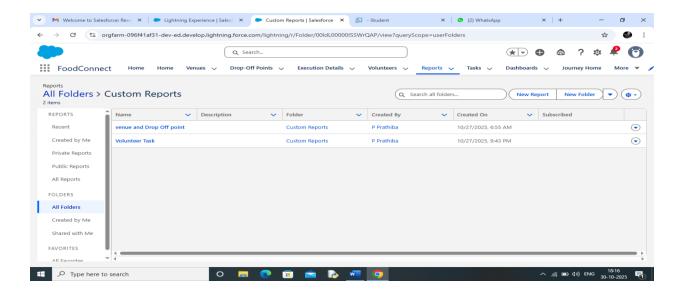
- Go to setup page >> type Report Types in Quick Find bar >> click on Report Types >> click on Continue >> Click on New Custom Report Type.
- 2. In Define the Custom Report Type:
- 3. Primary Object : Select Venues
- 4. Report Type Label: Venue with DropOff with Volunteer
- 5. Report Type Name: Venue\_with\_DropOff\_with\_Volunteer
- 6. Description: Venue with DropOff with Volunteer
- 7. Store in Category: Select Other Reports
- 8. Deployment Status: Deployed
- 9. Click on Next

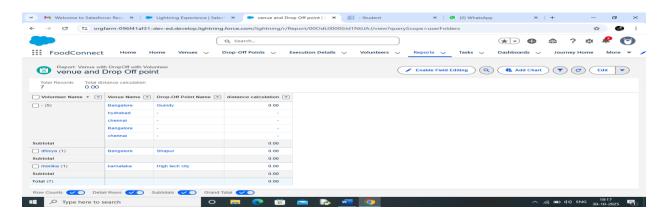
- 10. Near Click to relate another Object Select Drop-Off Points.
- 11. And also select "A" records may or may not have related "B" records.
- 12. Now again Near Click to relate another Object Select Volunteers.
- 13. Now click on Save



## **Reports**

Creation of Report on Venue with DropOff with Volunteer:



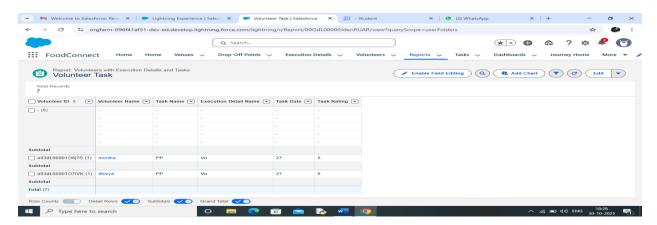


- 1. Go to the app(FoodConnect) >> click on the reports tab
- 2. Click on New Folder.
  - a. Folder Label: Custom Reports
  - b. Folder Unique Name: CustomReports
- 3. Open Custom Reports and click on New Report
- 4. Select Report Type: Venue with DropOff with Volunteer
- 5. In GROUP ROWS: Add Volunteer Name
- 6. In Columns: Add Venue Name, Drop-Off point Name, Distance.

- 7. Now click on Save & Run.
- 8. Give Label as:
- 9. Report Name: venue and Drop Off point
- 10. Report Unique Name: Auto Populated
- 11. Click on Select Folder and select Custom Report, then click on Save.

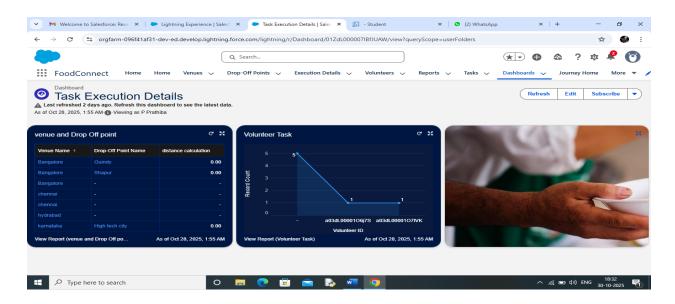
# Creation of Report on Volunteers with Execution Details and Tasks:

- 1. Go to the app(FoodConnect) >> click on the reports tab
- 2. Click on Custom Reports Folder and click on New Report
- 3. Select Report Type: Volunteers with Execution Details and Tasks.
- 4. Then click on Start Report.
- 5. In GROUP ROWS: Volunteer ID
- 6. In Columns: Add Volunteer: Volunteer Name, Task: Task Name, Execution Detail: Execution Detail Name, Volunteer: Owner Name, Task: Date, Task: Rating.



#### **Dashboards**

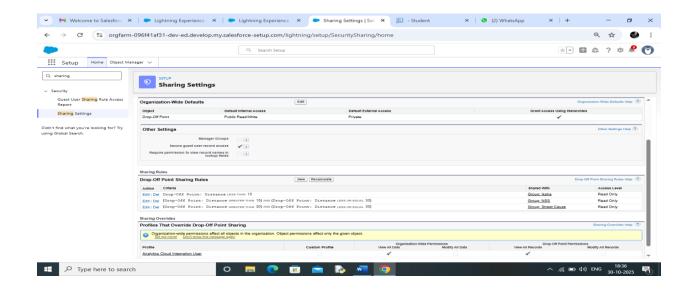
- 1. Adding venue and Drop Off point Report to the Dashboard:
- 2. Adding Volunteer Task Report to the Dashboard
- 3. Adding a Picture to the Dashboard (Optional)



# **Sharing Rules**

# Creation of sharing rules:

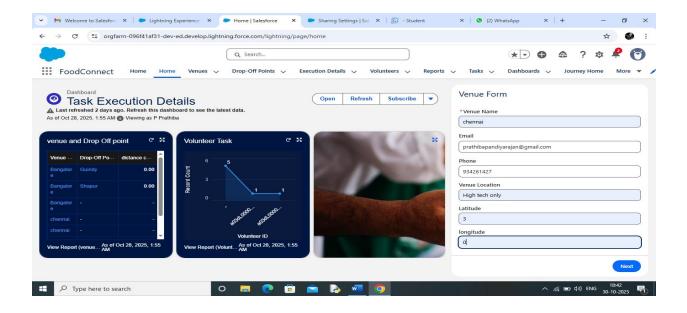
- 1. Go to setup >> type Sharing Settings in quick find box >> Click on the Sharing Settings.
- 2. Scroll down and find Drop-Off point Sharing Rules.



# **Home Page**

## Creation of sharing rules:

- 1. Go to setup >> type Lightning App Builder in quick find box >> Click on the Lightning App Builder and Select the New.
- 2. Select Home Page and give Label as HOME Page.
- 3. Select Standard Home Page.
- 4. Near Components search for Flow and Drag and Drop in Right Side Section.



## **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.