

# To Supply Leftover Food to Poor

<b>Date</b>	
<b>Team ID</b>	<b>LTVIP2025TMID31460</b>
<b>Project Name</b>	<b>To Supply Leftover Food to Poor</b>
<b>College Name</b>	<b>Ideal Institute Of Technology</b>

## Team Members

Name	Mail ID	Role
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2.Pilli Haritha	<a href="mailto:haritha9126@gmail.com">haritha9126@gmail.com</a>	Volunteer Lead
3.Ratcha Vijay	<a href="mailto:vijayrachha@gmail.com">vijayrachha@gmail.com</a>	Transportation Manager
4.Rokalla Likhitha	<a href="mailto:rokallalikhitha4@gmail.com">rokallalikhitha4@gmail.com</a>	Technology Manager

## Project Overview

- ❖ Every day, a large amount of edible food is wasted by restaurants, households, and event organizers, while millions of people go hungry.
- ❖ This project aims to address both problems simultaneously by building a system that collects surplus food and delivers it to people in need, reducing food waste and supporting community welfare.

### Purpose

The primary purpose of this project is to reduce food wastage and alleviate hunger by creating a reliable system that collects surplus or leftover food from donors such as restaurants, event venues, and households, and distributes it to underprivileged individuals and communities in need.

It aims to:

- Bridge the gap between excess food and food insecurity
- Promote social responsibility and community service
- Ensure timely and hygienic delivery of edible food to the poor
- Support a more sustainable and compassionate society

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### Problem

- Food waste is a growing issue, especially in urban areas where large quantities of cooked food go unused in restaurants, hotels, and events.
- At the same time, millions of people suffer from hunger and malnutrition.
- There is no centralized, efficient system to collect and distribute this leftover food.

- Concerns about food safety, storage, and transportation also hinder food donation efforts.
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## Proposed Solution

- Develop a mobile or web-based platform that connects:
    - Food Donors (restaurants, event organizers, households)
    - Volunteers/NGOs (for collection and delivery)
    - Recipients (homeless shelters, slum areas, orphanages)
  - Enable donors to post food availability in real-time.
  - Alert volunteers based on location for quick pickup.
  - Ensure food is collected safely and delivered promptly to the nearest identified beneficiaries.
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## Target Beneficiaries

- People in slums or economically weaker sections
  - Children in orphanages and students in underfunded schools
  - Elderly in old age homes
  - People affected by crises or natural disasters
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## Food Donors

- Restaurants, hotels, and cafes
- Marriage halls and event organizers

- Corporate canteens and hostels
  - Households with excess cooked food
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## Logistics and Operations

- Volunteers or NGO partners will be notified automatically once food is reported on the app.
  - Volunteers will:
    - Pick up the food
    - Follow safety protocols (clean containers, gloves, masks)
    - Transport the food to verified recipients or feeding centers
  - Use of insulated boxes or basic refrigeration to prevent spoilage during transport.
- 

## Technology Features

- Real-time food pickup requests
  - Geo-tagging and GPS tracking to locate donors and beneficiaries
  - Scheduling options for regular donations (e.g., daily surplus from a cafeteria)
  - Impact tracker showing number of meals delivered, donors onboarded, and food saved
  - Feedback system from recipients and donors
- 

## Impact Goals

- Significantly reduce food wastage in urban and semi-urban areas
  - Provide regular meals to thousands of poor individuals and families
  - Foster a culture of sharing and community responsibility
  - Encourage CSR involvement from companies and restaurants
  - Support environmental sustainability by minimizing food disposal
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## Alignment with Sustainable Development Goals (SDGs)

- **SDG 2 – Zero Hunger:** End hunger, achieve food security, and improve nutrition
- **SDG 12 – Responsible Consumption and Production:** Reduce food waste at the consumer and retail levels
- **SDG 11 – Sustainable Cities and Communities:** Make cities more inclusive and resource-efficient



## Ideation Phase

### Brainstorm & Idea Prioritization

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

To form a collaborative team, align on a common vision, and define a clear and impactful problem statement focused on supplying leftover food to the poor.

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#### **Team Gathering**

- **Team Composition:**

Gather a diverse group of individuals with varied skill sets, including:

- Project Manager,
- Logistics Coordinator
- Technology Lead (App/Platform)
- NGO/Community Liaison
- Volunteer Manager

- **Kick-off Meeting:**

Host an introductory session to explain the goal and importance of reducing food waste and feeding the poor.

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## Collaboration

- **Icebreaker Activities:**

Encourage team bonding through quick sharing rounds—why they're interested in the cause, or any prior volunteering experiences.

- **Goal Setting:**

Define a shared goal:

*"To create a system that efficiently collects and distributes leftover food from restaurants, events, and households to those in need."*

- **Ground Rules:**

Set expectations for open communication, equal participation, and respect for all ideas.

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## Problem Statement Selection

- **Initial Discussions:**

Present real-world statistics and challenges:

- X tons of food wasted daily.
- Y% of urban population lacks access to one full meal a day.

- **Brainstorming Problems:**

- Lack of awareness about food donation.
- Difficulty in identifying genuine beneficiaries.
- Time-sensitive nature of perishable food.

- **Problem Framing:**

Encourage the team to reframe and vote on the most impactful problem.

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## Final Selected Problem Statement:

 *"How might we build a reliable, fast, and sustainable solution to collect leftover food and deliver it safely to underprivileged communities?"*

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## Step 2: Brainstorming, Idea Listing, and Grouping

### Objective

The purpose of the brainstorming session was to generate a wide range of creative, practical, and community-driven ideas to address the issue of food wastage and hunger. The session aimed to explore solutions for collecting, managing, and distributing leftover food in an organized and safe manner.

#### Brainstorming Session

- A collaborative environment was created where all team members felt free to share their ideas without judgment.
  - The team followed the "quantity over quality" rule in the first round — even wild or unconventional ideas were encouraged.
  - Members were invited to build on each other's ideas, which led to more refined and complete solutions.
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#### Raw Ideas Generated

- Mobile app for food donors to register leftover food
  - NGO dashboard to view and claim available food
  - Volunteer assignment system with live GPS
  - Heatmap to identify hunger hotspots
  - Real-time notifications to nearby NGOs
  - Integration with SMS/WhatsApp for alerts
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## Grouped Idea Themes

Category	Ideas Included
 Food Listing	Donor food entry form, photo upload, expiry timer
 Location Matching	GPS-based NGO alerts, live availability map
 Distribution	Volunteer tracking, delivery logs
 Analytics	Reports on food saved, NGO performance
 Communication	Real-time alerts, chat with donors, feedback system

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## Step 3: Idea Prioritization

### Objective:

To evaluate and prioritize the most impactful, feasible, and urgent ideas for development using a simple matrix. This step helps the team identify which ideas to move forward with for implementation.

Idea	Impact	Feasibility	Urgency	Priority
Donor Food Listing Form	High	High	High	 Top
Real-time NGO Notification	High	Medium	High	 Top
Expiry Reminder System	Medium	High	Medium	 Consider
Beneficiary Feedback Form	Medium	High	Low	 Consider
Volunteer GPS Tracking	High	Medium	Medium	 Consider
Heatmap of Hunger Zones	High	Low	Medium	 Later

## 🏆 Top Prioritized Ideas (To Take Forward)

- **Mobile App for Pickup Requests** – central platform to request, track, and manage donations.
- **Volunteer Delivery Network** – community-based, cost-effective logistics.
- **Food Safety Checklist/Protocol** – ensures food quality and builds trust.
- **Partnership with Food Providers (Hotels, Restaurants, Event Halls)** – steady supply of surplus food.

## Key Takeaway

- Prioritization helped the team narrow down a wide pool of ideas into a focused, practical plan. We are now ready to transition from planning to building a solution that can make a real impact in reducing food waste and feeding the needy
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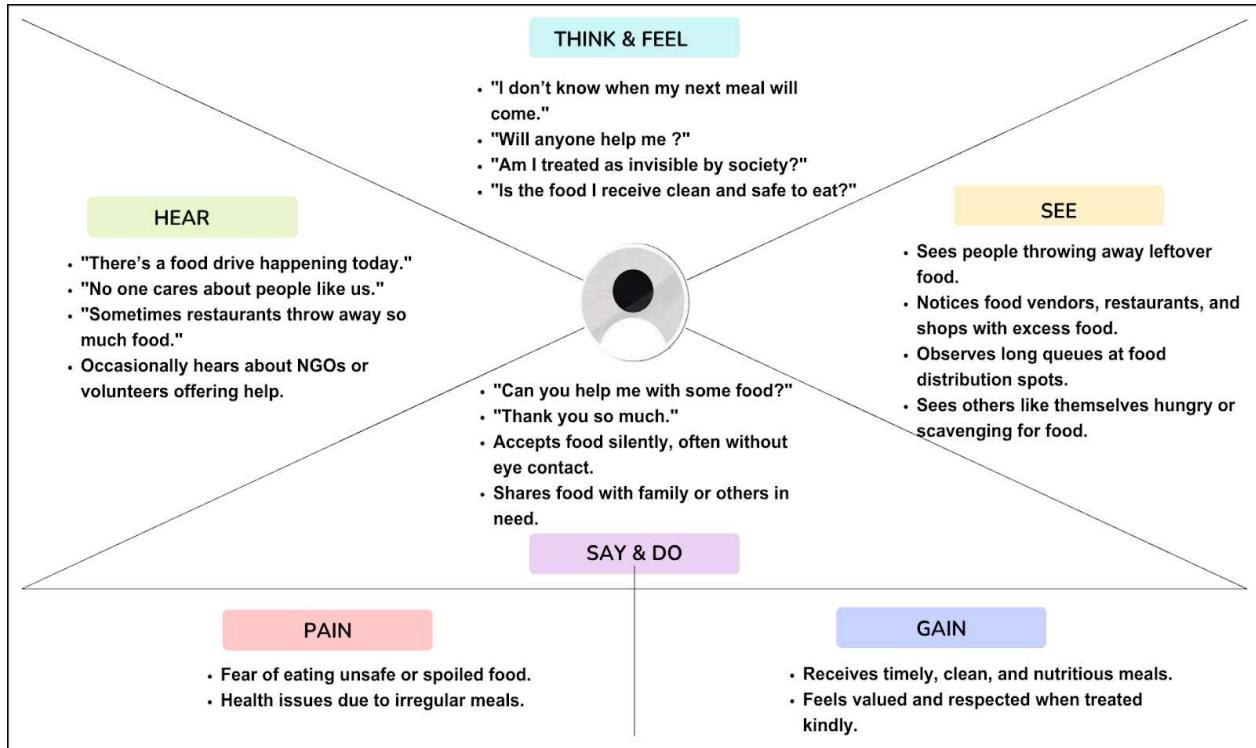
## ✓ Problem Statement – Final Version

- Despite large quantities of leftover food being generated daily by restaurants, events, and households, a significant portion of this food goes to waste while many people in our communities suffer from hunger. There is currently no efficient, structured, and widely adopted system in place to collect, manage, and distribute this surplus food to those in need. As a result, food waste increases, and opportunities to address hunger are missed.
- This project aims to solve the problem of food waste and hunger by creating a reliable, safe, and scalable method to collect leftover food and deliver it to poor and underserved communities in a timely and hygienic manner

## Empathy Mapping – Understanding Stakeholders

### Objective:

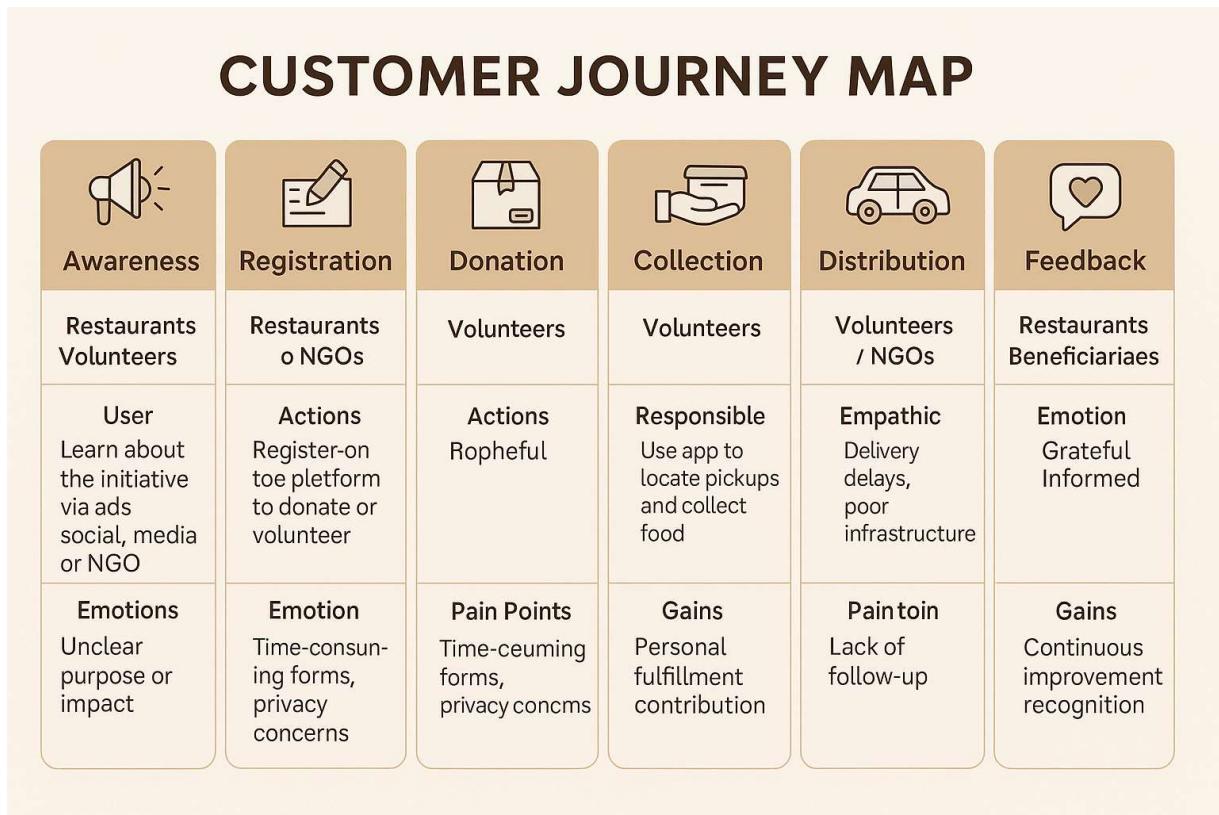
To develop empathy for the stakeholders (Donors, NGOs, and Beneficiaries) and understand their pains, needs, and goals.



# Requirement Analysis Phase

Date	
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## Step-1: Customer Journey Map



## Step-2: Solution Requirement

### ◆ 1. Functional Requirements

These describe what the system should do.

ID	Requirement Description
FR1	Users (restaurants, NGOs, volunteers) should be able to register and log in to the system.
FR2	Restaurants should be able to submit food donation details (type of food, quantity, pickup time, location).
FR3	Volunteers should be able to view available food pickups and accept tasks.
FR4	The system should assign and notify volunteers automatically for pickups.
FR5	Volunteers should update collection status (e.g., "picked up", "in transit").
FR6	NGOs or volunteers should mark deliveries as complete and optionally include recipient feedback.
FR7	System should maintain a record/log of all transactions.
FR8	Users should be able to give and view feedback on the process.
FR9	Admin should be able to monitor, audit, and generate reports.

## ◆ 2. Non-Functional Requirements

These define how the system should behave.

Category	Requirement
Performance	System should support simultaneous requests from at least 100 users.
Reliability	System should have 99.5% uptime.
Usability	Interface must be mobile-friendly and easy to use for all age groups.
Security	User data must be protected via secure authentication & encryption.
Scalability	Platform should support scaling to new cities or states as needed.
Maintainability	System should allow easy updates and bug fixes without downtime.

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## ◆ 3. Data Requirements

ID	Data Requirement
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DR1 Store user data (name, role, contact, location).

DR2 Food donation data (type, expiry time, quantity, origin).

DR3 Volunteer task data (assigned, status updates, timestamps).

DR4 Feedback data from donors, volunteers, and recipients.

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## ◆ 4. Technical Requirements

Area	Requirement
Platform	Web-based platform + Android mobile app
Database	Use of cloud-hosted relational database (e.g., PostgreSQL, Firebase)
Hosting	Cloud service provider like AWS, Azure, or GCP
Integration	SMS or push notification service (e.g., Twilio, Firebase)
Mapping	Integration with Google Maps API for navigation

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## ◆ 5. Stakeholder Requirements

Stakeholder	Needs
Donors (restaurants)	Easy way to donate food with trust in the process

Volunteers	Efficient task coordination and safety
NGOs	Smooth distribution and reporting
Admin	Real-time system visibility and user management

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## Step-3: Data Flow Diagram

### Level 0 – Context Level DFD (Overview)

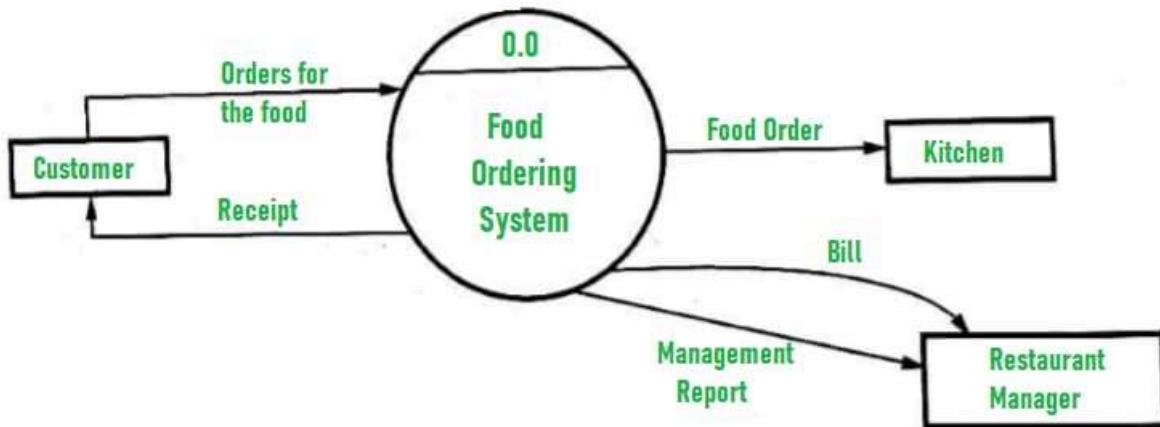
The system is designed and established across the world with input and output at this level.

Food Ordering System has the following input :

- Food order is input as the customer's order for food.

Food Ordering System has the following output:

- Receipt of the order.
- For further processing the order, the food order is passed to the kitchen.
- The restaurant manager gets the report of Bill and Management.



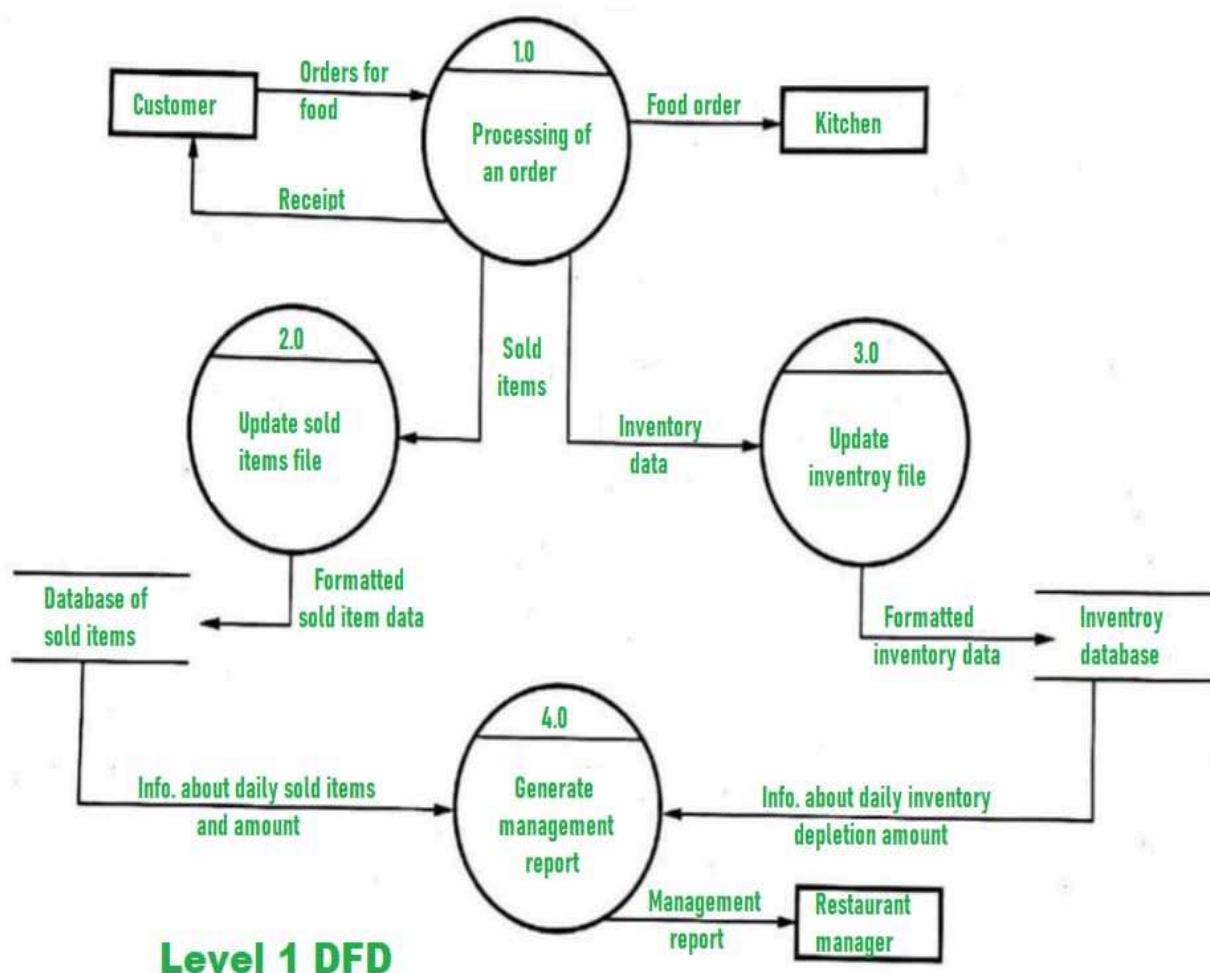
### Level 0 DFD (Context Level)

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## Level 1 – Detailed DFD

For processing the order, process 1.0 is responsible. For food, the housekeeping activities involved are represented by processes 2.0, 3.0, and 4.0. The detailed information about daily sold items should be available to create and report management and the list of items that are available 'in-stock' should be kept by maintaining the inventory data (describes the records of datasets such as their name, their content, source, many useful information, etc.) at the same time. Hence, two data stores are used in this level of DFD given below :

- Database of Sold items
- Inventory database



## Step-4: Technology Stack Requirement Analysis

The system includes multiple components: frontend (user interface), backend (business logic), database (storage), APIs (communication), and infrastructure.

## ◆ 1. Frontend (User Interface)

Component	Technology	Purpose
Web App	React.js or Vue.js	For building the restaurant, volunteer, and NGO dashboards
Mobile App	Flutter or React Native	Cross-platform (Android/iOS) app for ease of use in field
UI Design	Figma or Adobe XD	Designing user-friendly wireframes and prototypes

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## ◆ 2. Backend (Server-Side Logic)

Component	Technology	Purpose
Backend Framework	Node.js (Express.js) or Django (Python)	To manage API logic and data flow
Authentication	JWT (JSON Web Tokens) / OAuth 2.0	Secure login and role-based access control
Scheduler	Node-Cron / Celery	Automate tasks like reminders, pickup alerts

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### ◆ 3. Database (Data Storage)

Type	Technology	Purpose
Relational DB	PostgreSQL or MySQL	Store structured data (users, donations, delivery logs)
Real-time DB (Optional)	Firebase Realtime Database	For quick updates and live tracking
Cloud Storage	Amazon S3 or Google Cloud Storage	Store images (e.g., food photos, proof of delivery)

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### ◆ 4. APIs & Integrations

Type	Technology	Purpose
Maps API	Google Maps API	Location tracking, route optimization for volunteers
Notification API	Firebase Cloud Messaging / Twilio	Send real-time SMS or push alerts
Email Service	SendGrid / Mailgun	Email notifications for confirmations or reminders
Payment Gateway (Optional)	Razorpay / Stripe	If you accept donations or need logistics support funds

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## ◆ 5. DevOps & Infrastructure

Tool	Purpose
<b>Docker</b>	Containerize application for consistent deployment
<b>GitHub / GitLab</b>	Version control and collaboration
<b>CI/CD</b>	GitHub Actions, Jenkins, or GitLab CI for continuous deployment
<b>Cloud Provider</b>	AWS / GCP / Azure to host backend, DB, and frontend
<b>Monitoring</b>	Prometheus, Grafana, or Google Stackdriver for system health tracking

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## ◆ 6. Security Requirements

Security Layer	Technology
HTTPS	SSL Certificates
Data Encryption	AES or SHA-256 for sensitive info
Role-Based Access	Admin, Restaurant, Volunteer, NGO
Regular Backups	Cloud-based scheduled backups

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## ◆ 7. Optional AI Features (Future Scope)

Use Case	Technology
Predicting food wastage patterns	TensorFlow / Scikit-learn
Matching pickup schedules	AI-based route optimization using Google OR-Tools
Sentiment Analysis on Feedback	Natural Language Processing APIs

# Project Design Phase

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## Step-1: Problem-Solution Fit

### ★ Problem Statement:

A large quantity of edible leftover food from restaurants, events, and households goes to waste, while many people in urban and rural areas remain hungry and undernourished.

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### Solution Hypothesis

Create a tech-enabled food distribution platform that:

- Connects food donors (restaurants, caterers, households) with verified NGOs/volunteers
  - Includes a real-time pickup and delivery tracking system
  - Ensures food safety guidelines are met
  - Rewards and recognizes donors to increase participation
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## Key Features of the Solution

Feature	How it Solves the Problem
Mobile/Web App for Food Donors	Makes food donation easy and quick
Real-Time Matching Engine	Matches available food with nearby NGOs
Pickup Logistics System	Ensures timely and safe transportation
Volunteer Coordination	Allows scheduling and routing of pickups/deliveries
Food Safety Guidelines Checklist	Ensures hygiene and quality
Feedback & Rating System	Builds trust between users

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## Step-2: Proposed Solution

### ★ Phase Object:

Design a practical, scalable, and technology-enabled system to collect surplus food and distribute it safely to the underprivileged.

### ★ Solution Overview:

Design a centralized platform (mobile + web-based) that connects food donors, volunteers/NGOs, and recipients through an automated and transparent process.

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 **Solution Components**

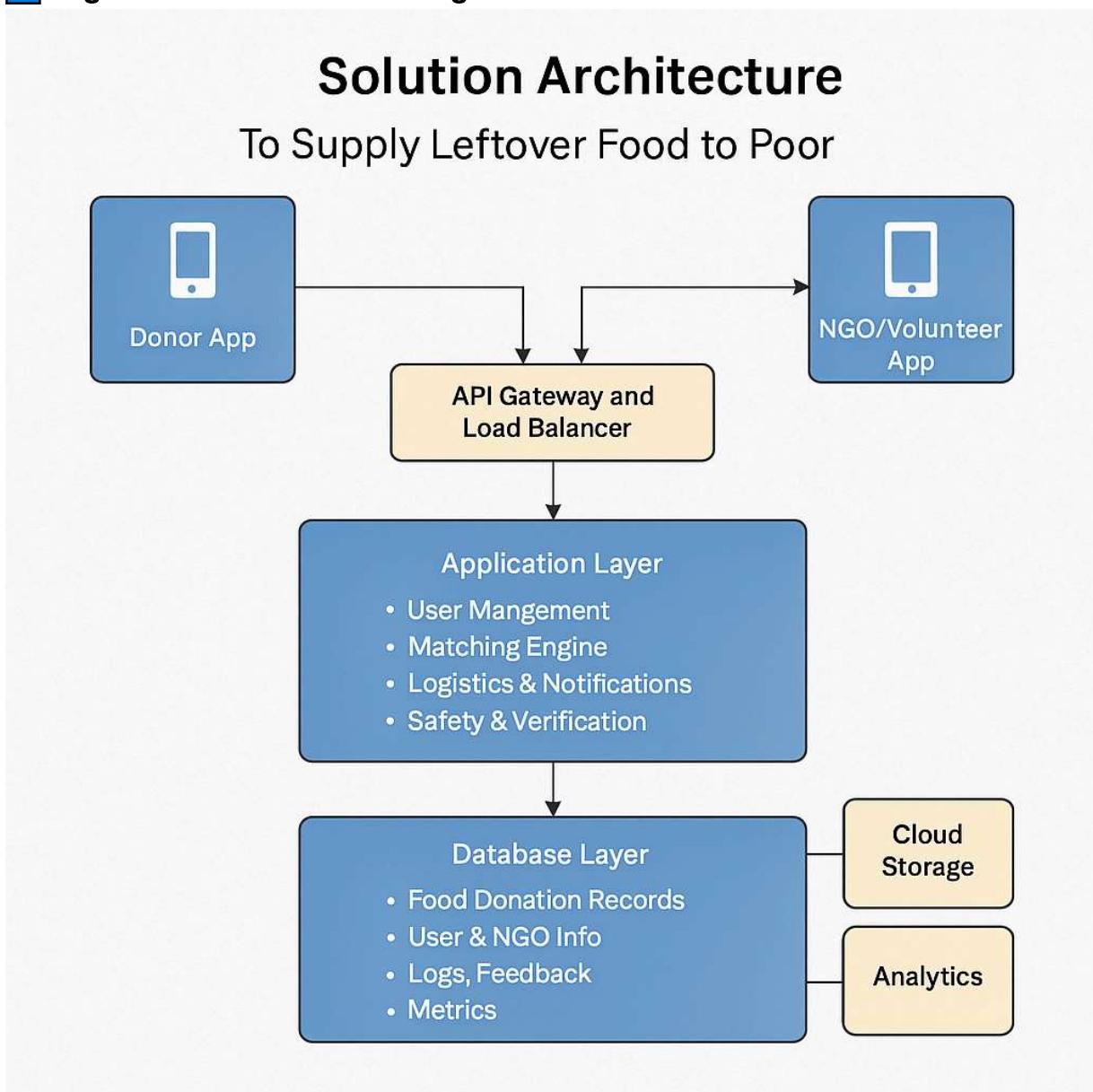
Component	Description
<b>Donor App Interface</b>	Allows food donors (restaurants, hotels, etc.) to register leftover food.
<b>NGO/Volunteer Interface</b>	Enables NGOs and volunteers to accept requests, schedule pickups.
<b>Admin Dashboard</b>	Central system to monitor operations, logistics, food flow, and reports.
<b>Notification System</b>	Sends real-time alerts and updates to all users.
<b>Geo-Matching Engine</b>	Matches donors and NGOs/volunteers based on location, quantity, and time.
<b>Logistics Tracker</b>	Tracks food pickup, transit, and delivery with timestamps and feedback.
<b>Food Safety Protocols</b>	In-app hygiene checklist and documentation of food type, time, and expiry.
<b>Reward System</b>	Badges, points, and CSR certificates for active donors and volunteers.

## Step-2: Solution Architecture

### ★ System Overview

The solution is a cloud-based, modular platform that connects food donors, NGOs/volunteers, and recipients. The architecture focuses on scalability, performance, data security, and real-time operations.

#### 🔗 High-Level Architecture Diagram



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## Key Components

Component	Description
<b>Frontend (Mobile/Web)</b>	User interfaces for donors, volunteers, NGOs, and admins
<b>API Gateway</b>	Routes requests, provides rate limiting, and ensures security
<b>Authentication Service</b>	Sign-up/login, role-based access (donor/NGO/admin)
<b>Matching Engine</b>	Matches donations with nearest NGOs/volunteers based on location/time
<b>Logistics Scheduler</b>	Assigns and tracks pickup/delivery routes
<b>Food Safety Module</b>	Records food type, condition, and expiry with checklists
<b>Notification System</b>	Sends alerts via SMS, email, or in-app
<b>Analytics Dashboard</b>	Visualizes metrics like number of meals delivered, pickup time, etc.
<b>Database (SQL/NoSQL)</b>	Stores user profiles, donation logs, NGO data, delivery info
<b>Cloud Storage (e.g., AWS S3)</b>	For storing images, digital certificates, reports

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## Integration Points

External System	Purpose
<b>Google Maps API</b>	Location matching, route optimization
<b>SMS/Email Gateway</b>	Real-time notifications
<b>Food Safety Guidelines API (if any)</b>	Ensures compliance with health regulations
<b>CSR/NGO Registries</b>	Verifies legitimacy of organizations

## Scalability Considerations

- **Microservices architecture** for each module (matching, logistics, notifications)
- **Auto-scaling cloud environment** (e.g., AWS, Azure, GCP)
- **Caching layer** (e.g., Redis) to improve speed of frequent queries
- **Load balancer** to distribute traffic and maintain uptime

# Project Planning Phase

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## Project Planning Template

### 1. Project Title

To Supply Leftover Food to Poor

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### 2. Project Objectives

- Reduce food wastage by collecting surplus food from restaurants, events, and households.
  - Deliver leftover food to underprivileged and homeless communities.
  - Create a digital platform to connect donors, volunteers, and NGOs.
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### 3. Project Scope

#### In Scope:

- Web and mobile app development.
- Real-time food donation and pickup tracking.
- Volunteer task assignment.

- Integration with Google Maps for delivery.
- Feedback system for quality monitoring.

**Out of Scope:**

- Managing funding or financial donations.
  - Building hardware infrastructure (e.g., cold storage).
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## 4. Project Timeline

Phase	Duration	Dates
Planning	2 days	June 12 – June 13
Design (UI/UX)	3 days	June 14 – June 16
Development (MVP)	8 days	June 17 – June 24
Testing & QA	3 days	June 25 – June 27
Deployment & Feedback Loop	3 days	June 28 – June 30

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## 5. Key Milestones

Milestone	Target Date
Finalize project requirements	June 13
UI/UX design approval	June 16
MVP functional version ready	June 24
Performance testing completed	June 27
Go-live	June 30

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## 6. Team Roles & Responsibilities

Role	Responsibility
Project Manager	Oversee planning, execution, and timelines
Developer	Build front-end and back-end systems
UI/UX Designer	Create wireframes and app design
QA Engineer	Conduct testing and ensure quality
Volunteer Manager	Coordinate real-world pickup/delivery

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## 7. Budget & Resources (Optional)

Resource	Estimated Cost / Availability
Hosting (Cloud)	₹2,000/month
Domain & SSL	₹1,000/year
Developer Time	100 hours
Marketing Materials	₹5,000

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## 8. Risk Management

Risk	Mitigation Strategy
Low volunteer availability	Allow advance scheduling and notifications
Data loss or security breach	Regular backups and encrypted data storage
Food spoilage during delivery	Set pickup time limits and alerts

## █ 9. Communication Plan

<b>Stakeholder</b>	<b>Communication Method</b>	<b>Frequency</b>
Team Members	WhatsApp / Email	Daily
NGO Partners	Zoom / Email	Weekly
Donors / Users	App Notifications	Real-time
Volunteers	SMS / App Alerts	Real-time

# Project Development Phase

<b>Date</b>	
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## Salesforce developer account creation

### Creating Developer Account

1. Go to <https://developer.salesforce.com/signup>
2. On the sign up form, enter the following details :

1. First name & Last name
2. Email
3. Role : Developer
4. Company : College or Company Name
5. County : India
6. Postal Code : pin code

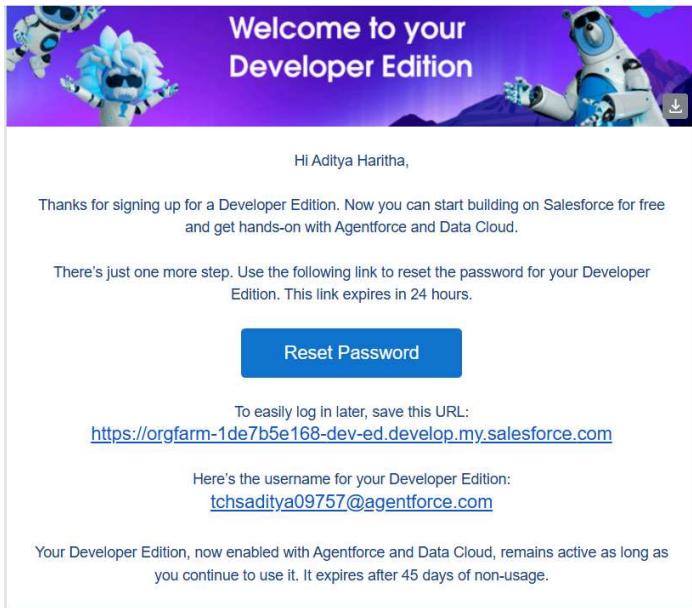
## 7. Username : should be a combination of your name and company

This need not be an actual email id, you can give anything in the format :  
username@organization.com

Click on sign me up after filling these.

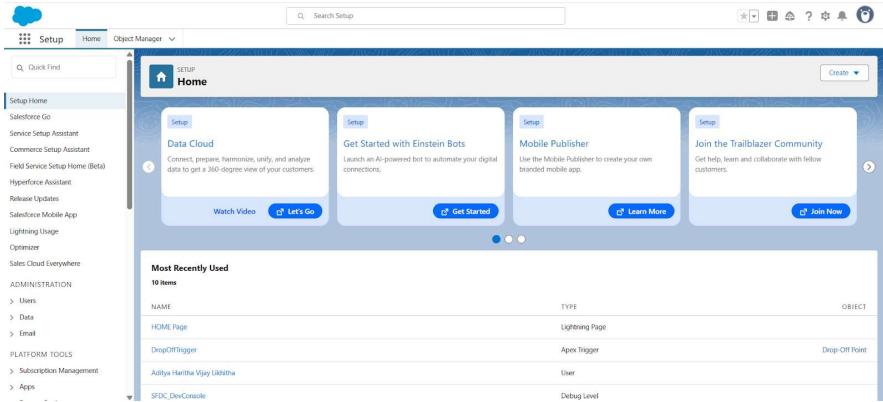
### Account Activation

1. Go to the inbox of the email that you used while signing up. Click on the verify account to activate your account. The email may take 5-10mins.



### 3. 1. Click on Verify Account

2. Give a password and answer a security question and click on change password.
3. Give a password and answer a security question and click on change password.
4. Then you will redirect to your salesforce setup page.



## Object

To Navigate to Setup page:

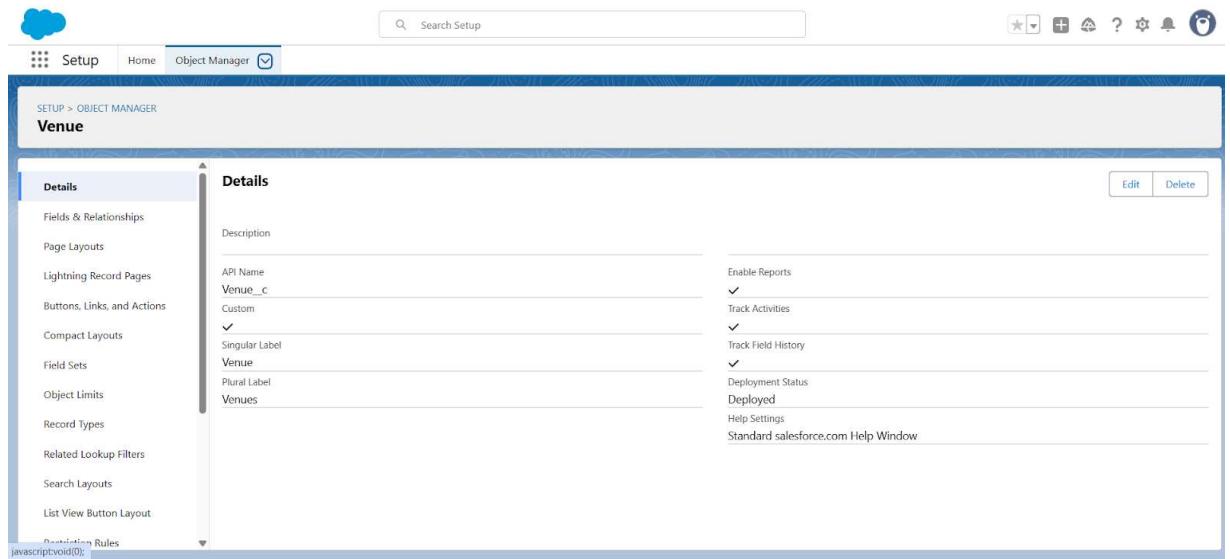
To create an object:

1. From the setup page > Click on Object Manager > Click on Create > Click on Custom Object
2. On Custom object defining page:
3. Enter the label name, plural label name, click on Allow reports, Allow search.
4. Click on Save.

### Create Venue Object

To create an object:

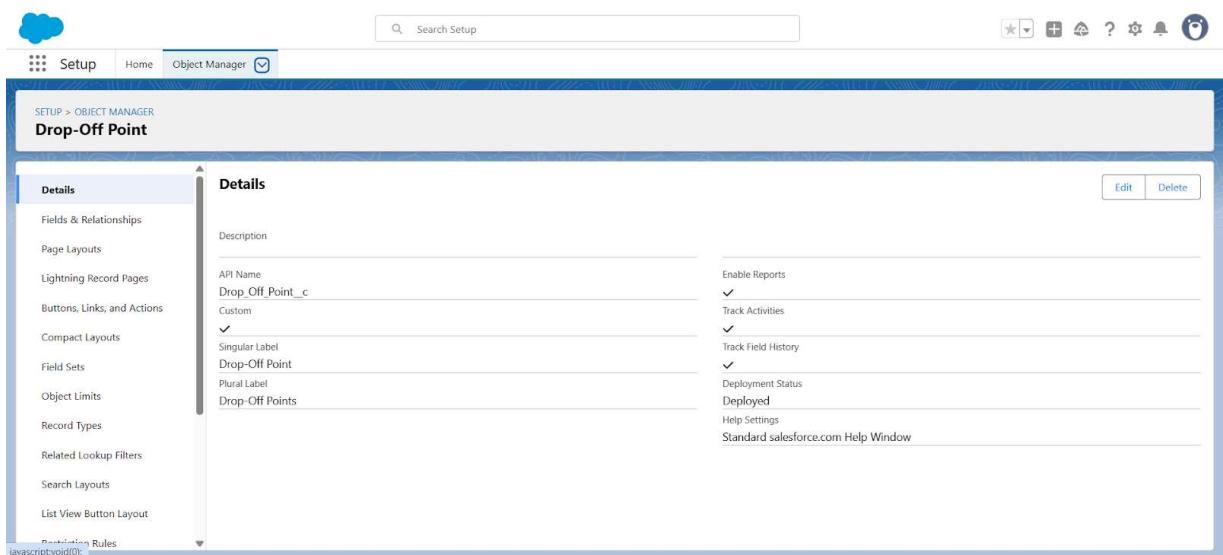
1. From the setup page >> Click on Object Manager >> Click on Create >>Click on Custom Object.
  1. Enter the label name >> Venue
  2. Plural label name >> Venues
  3. Enter Record Name Label and Format
    - Record Name >> Venue Name
    - Data Type >> Text
2. Click on Allow reports and Track Field History,Allow Activities.
3. Allow search >> Save.



## Create Drop-Off Point Object

To create an object:

1. From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.
  1. Enter the label name >> Drop-Off Point
  2. Plural label name>> Drop-Off Points
  3. Enter Record Name Label and Format
    - Record Name >> Drop-Off point Name
    - Data Type >> Text
2. Click on Allow reports and Track Field History,Allow Activities
3. Allow search >> Save.



## Create Task Object

To create an object:

1. From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.
  1. Enter the label name>> Task
  2. Plural label name>> Tasks
  3. Enter Record Name Label and Format
    - Record Name >> Task Name
    - Data Type >> Text
2. Click on Allow reports and Track Field History,Allow Activities
3. Allow search >> Save.

The screenshot shows the Salesforce Setup interface under the Object Manager section for the 'Task' object. The left sidebar lists various configuration options like Fields & Relationships, Page Layouts, and Record Types. The main 'Details' tab is selected, showing the API Name as 'Task\_c', which is custom. The Singular Label is 'Task' and the Plural Label is 'Tasks'. On the right, there are sections for Enable Reports, Track Activities, Track Field History, Deployment Status (set to Deployed), and Help Settings (Standard salesforce.com Help Window). Buttons for Edit and Delete are at the top right.

## Create Volunteer Object

To create an object:

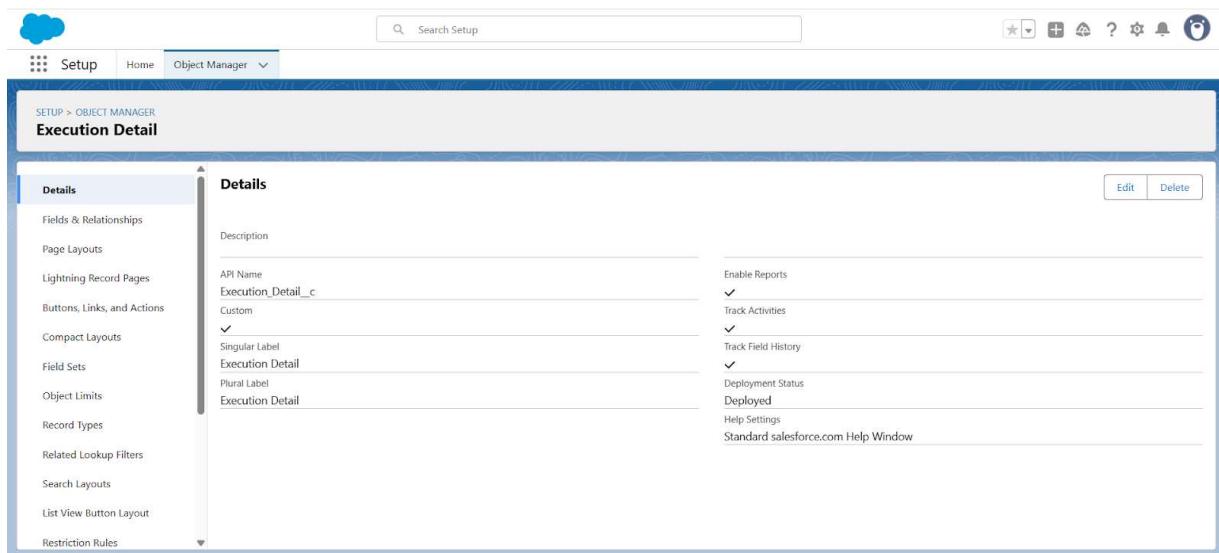
1. From the setup page >> Click on Object Manager>> Click on Create >> Click on Custom Object.
  1. Enter the label name>> Volunteer
  2. Plural label name>> Volunteers
  3. Enter Record Name Label and Format
    - Record Name >> Volunteer Name
    - Data Type >> Text
2. Click on Allow reports and Track Field History, Allow Activities
3. Allow search >> Save.

The screenshot shows the Salesforce Setup interface under the Object Manager section for the 'Volunteer' object. The left sidebar lists various configuration options. The main 'Details' tab is selected, showing the API Name as 'Volunteer\_c', which is custom. The Singular Label is 'Volunteer' and the Plural Label is 'Volunteers'. On the right, there are sections for Enable Reports, Track Activities, Track Field History, Deployment Status (set to Deployed), and Help Settings (Standard salesforce.com Help Window). Buttons for Edit and Delete are at the top right.

## Create Execution Details Object

To create an object:

1. From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.
  1. Enter the label name >> Execution Detail
  2. Plural label name >> Execution Details
  3. Enter Record Name Label and Format
    - Record Name >> Execution Detail Name
    - Data Type >> Text
2. Click on Allow reports and Track Field History, Allow Activities
3. Allow search >> Save.



## Tabs

What is Tab : A tab is like a user interface that is used to build records for objects and to view the records in the objects.

### Creating a Custom Tab

To create a Tab:(Venue)

1. Go to setup page >> type Tabs in Quick Find bar >> click on tabs >> New (under custom object tab)
2. Select Object(Venue) >> Select the tab style >> Next (Add to profiles page) keep it as default >> Next (Add to Custom App) uncheck the include tab .
3. Make sure that the Append tab to users' existing personal customizations is checked.
4. Click save.

5. Now create the Tabs for the remaining Objects, they are “Drop-Off Point, Task, Volunteer, Execution Details”.
6. Follow the same steps as mentioned in Activity -1 .

Action	Label	Tab Style	Description
Edit   Del	Drop-Off Points	Factory	
Edit   Del	Execution Detail	Whistle	
Edit   Del	Tasks	Pencil	
Edit   Del	Venues	Building	
Edit   Del	Volunteers	People	

## 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.
2. Fill the app name in app details and branding as follow  
 App Name : FoodConnect  
 Developer Name : This will auto populated  
 Image : optional (if you want to give any image you can otherwise not mandatory)  
 Primary color hex value : keep this default.

3. Then click Next >> (App option page) Set Navigation Style as Standard Navigation >> Next.

4. (Utility Items) keep it as default >> Next.

5. To Add Navigation Items:

Search for the item in the (Home, Venue, Drop-Off Point, Task, Volunteer, Execution Details, Reports) from the search bar and move it using the arrow button >> Next >> Next.

6. To Add User Profiles:

Search profiles (System administrator) in the search bar >> click on the arrow button >> save & finish.

## Fields

### Creation of Relationship fields in objects

#### Creation of Master Detail Relationship Field on Volunteer Object :

1. Go to setup >> click on Object Manager >> type object name(Volunteer) in the search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Master Detail relationship
4. Select the related object “Drop-Off point” and click next.
5. Field Name : Drop\_Off\_point
6. Field label : Auto generated
7. Next >> Next >> Save.

#### Creation of Master Detail Relationship Field on Execution Details Object :

8. Go to setup >> click on Object Manager >> type object name(Execution Details) in the search bar >> click on the object.
9. Now click on “Fields & Relationships” >> New
10. Select Master Detail relationship
11. Select the related object “Volunteer” and click next.

12. Field Name : Volunteer
13. Field label : Auto generated
14. Next >> Next >> Save.

#### **Creation of Master Detail Relationship Field on Execution Details Object :**

15. Go to setup >> click on Object Manager >> type object name(Execution Details) in the search bar >> click on the object.
16. Now click on “Fields & Relationships” >> New
17. Select Master Detail relationship
18. Select the related object “Task” and click next.
19. Field Name : Task
20. Field label : Auto generated
21. Next >> Next >> Save.

#### **Creation of Lookup Relationship Field on Drop-Off Point Object :**

22. Go to setup >> click on Object Manager >> type object name(Drop-Off Point) in the search bar >> click on the object.
23. Now click on “Fields & Relationships” >> New
24. Select Lookup relationship
25. Select the related object “Venue” and click next.
26. Field Name : Venue
27. Field label : Venue\_\_c
28. Next >> Next >> Save.

#### **Creation of Lookup Relationship Field on Task Object :**

29. Go to setup>> click on Object Manager >> type object name(Task) in the search bar >> click on the object.
30. Now click on “Fields & Relationships” >> New
31. Select Lookup relationship
32. Select the related object “Venue” and click next.
33. Field Name : Sponsored By
34. Field label : Auto generated
35. Next >> Next >> Save.

#### **Creation of Lookup Relationship Field on Task Object :**

36. Go to setup>> click on Object Manager >> type object name(Task) in the search bar >> click on the object.
37. Now click on “Fields & Relationships” >> New
38. Select Lookup relationship

39. Select the related object “Drop-Off point” and click next.
40. Field Name : Drop-Off point
41. Field label : Auto generated
42. Next >> Next >> Save.

### **Creation of fields for the Venue object**

1. Go to setup>> click on Object Manager >> type object name(Venue) in search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Email” and Click on Next
4. Fill the Above as following:
  - Field Label : Contact Email
  - Field Name : Contact Email
  - Click on required check box
  - Click on Next >> Next >> Save and new.

### **To create another fields in an object:**

5. Go to setup >> click on Object Manager >> type object name(Venue) in search bar >> click on the object.
6. Now click on “Fields & Relationships” >> New
7. Select Data type as a “Phone” and Click on Next
8. Fill the Above as following:
  - Field Label : Contact Phone
  - Field Name : Contact Phone
  - Click on required check box
  - Click on Next >> Next >> Save and new.

### **To create another fields in an object:**

1. Go to setup >> click on Object Manager >> type object name(Venue) in search bar >>click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Geolocation” and Click on Next
4. Fill the Above as following:
  - Field Label : Location
  - Decimal Places : 4
  - Field Name : Location
  - Description : Enter the Geolocation of your Venue
  - Click on Next >> Next >> Save and new.

### To create another fields in an object:

9. Go to setup >> click on Object Manager >> type object name(Venue) in search bar >> click on the object.
10. Now click on “Fields & Relationships” >> New
11. Select Data type as a “Long Text Area” and Click on Next
12. Fill the Above as following:
  - Field Label : Venue Location
  - Field Name : Venue\_Location
  - Click on Next >> Next >> Save and new.

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)		

### Creation of fields for the Drop-Off point object

Go to setup >> click on Object Manager >> type object name(Drop-Off point) in search bar >> click on the object.

2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Geolocation” and Click on Next
4. Fill the Above as following:

- Field Label : Location 2
- Field Name : gets auto generated
- Description : Enter the Geolocation of the Drop off Point
- Geolocation Options : select Decimal
- Decimal Places : 4
- Click on Next >> Next >> Save and new.

To create another fields in an object:

1. Go to setup >> click on Object Manager >> type object name(Drop-Off point) in search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Formula” and Click on Next
4. Fill the Above as following:
  - Field Label : distance calculation
  - Field Name : distance\_calculation
  - Formula Return Type : Number
  - Formula Options : DISTANCE( Location\_2\_\_c , Venue\_\_r.Location\_\_c , 'km')
  - Click on Next >> Next >> Save and new.

To create another fields in an object:

5. Go to setup >> click on Object Manager >> type object name(Drop-Off point) in search bar >> click on the object.
6. Now click on “Fields & Relationships” >> New
7. Select Data type as a “Picklist” and Click on Next
8. Fill the Above as following:
  - Field Label : State
  - Field Name : State
  - Enter values, with each value separated by a new line :  
Andhra Pradesh  
Arunachal Pradesh  
Assam  
Bihar  
Chhattisgarh  
Goa  
Gujarat  
Haryana  
Himachal Pradesh  
Jharkhand  
Karnataka  
Kerala  
Maharashtra  
Madhya Pradesh  
Manipur  
Meghalaya  
Mizoram  
Nagaland  
Odisha

- Punjab
  - Rajasthan
  - Sikkim
  - Tamil Nadu
  - Tripura
  - Telangana
  - Uttar Pradesh
  - Uttarakhand
  - West Bengal
  - Andaman & Nicobar (UT)
  - Chandigarh (UT)
  - Dadra & Nagar Haveli and Daman & Diu (UT)
  - Delhi [National Capital Territory (NCT)]
  - Jammu & Kashmir (UT)
  - Ladakh (UT)
  - Lakshadweep (UT)
  - Puducherry (UT)
- Click on required check box
  - Click on Next >> Next >> Save and new.

To create another fields in an object:

9. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
10. Now click on “Fields & Relationships” >> New
11. Select Data type as a “Number” and Click on Next
12. Fill the Above as following:
  - Field Label : Distance
  - Field Name : Distance
  - Length : 14
  - Decimal Places : 4
  - Click on required check box

- Click on Next >> Next >> Save and new.

The screenshot shows the Salesforce Object Manager interface for the 'Drop-Off Point' object. The left sidebar has a 'Fields & Relationships' section with links to Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, and List View Button Layout. The main content area is titled 'Fields & Relationships' and shows a table with columns: FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. The table contains nine items, sorted by Field Label. The fields listed are: Created By (CreatedById, Lookup(User)), Distance (Distance\_\_c, Number(14, 4)), 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), Owner (OwnerId, Lookup(User,Group)), State (State\_\_c, Picklist), and Venue (Venue\_\_c, Lookup(Venue)).

## Creation of fields for the Task object

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

- Now click on “Fields & Relationships” >> New
- Select Data type as a “Auto Number” and Click on Next
- Fill the Above as following:

- Field Label : Task ID
- Display Format : TASK-{0}
- Starting Number : 1
- Field Name : gets auto generated
- Click on required check box
- Click on Next >> Next >> Save and new.

To create another fields in an object:

- Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Data type as a “Date” and Click on Next
- Fill the Above as following:
  - Field Label : Date
  - Field Name : Date
  - Click on required check box
  - Click on Next >> Next >> Save and new.

To create another fields in an object:

5. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
6. Now click on “Fields & Relationships” >> New
7. Select Data type as a “Picklist (Multi-Select)” and Click on Next
8. Fill the Above as following:
  - Field Label : Food Category
  - Field Name : Food Category
  - Enter values, with each value separated by a new line :  
Veg  
Non-Veg  
Salad  
Snack
  - Click on required check box
  - Click on Next >> Next >> Save and new.

To create another fields in an object:

9. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
10. Now click on “Fields & Relationships” >> New
11. Select Data type as a “Number” and Click on Next
12. Fill the Above as following:
  - Field Label : Number of People Served
  - Field Name : Number\_of\_People\_Served
  - Click on required check box
  - Click on Next >> Next >> Save and new.

To create another fields in an object:

13. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
14. Now click on “Fields & Relationships” >> New
15. Select Data type as a “Text” and Click on Next
16. Fill the Above as following:
  - Field Label : Name of the Person
  - Field Name : Name\_of\_the\_Person
  - Click on Next >> Next >> Save and new.

To create another fields in an object:

17. Go to setup>> click on Object Manager >> type object name(Task) in search bar >> click on the object.
18. Now click on “Fields & Relationships” >> New
19. Select Data type as a “Phone” and Click on Next
20. Fill the Above as following:

- Field Label : Phone
- Field Name : Phone
- Click on Next >> Next>> Save and new.

To create another fields in an object:

21. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
22. Now click on “Fields & Relationships” >> New
23. Select Data type as a “Pick List” and Click on Next
24. Fill the Above as following:
  - Field Label : Rating
  - Field Name : Rating
  - Enter values, with each value separated by a new line :  
1  
2  
3  
4  
5
- Click on Next >> Next >> Save and new.

To create another fields in an object:

25. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
26. Now click on “Fields & Relationships” >> New
27. Select Data type as a “Long Text Area” and Click on Next
28. Fill the Above as following:
  - Field Label : Feedback
  - Field Name : Feedback
  - Click on Next >> Next >> Save and new.

Field Label	Field Name	Type
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
Last Modified By	LastModifiedById	Lookup(User)
Number of People Served	Number_of_People_Served__c	Number(18, 0)
Owner	OwnerId	Lookup(User, Group)
Phone	Phone_c	Phone
Rating	Rating__c	Picklist
Task ID	Task_ID__c	Auto Number
Task Name	Name	Text(50)
Venue	Sponsored_By__c	Lookup(Venue)

## Creation of fields for the Volunteer object

1. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Auto Number” and Click on Next
4. Fill the Above as following:
  - Field Label : Volunteer ID
  - Field Name : gets auto generated
  - Click on required check box
  - Click on Next >> Next >> Save and new.
  - Click on Next >> Next >> Save and new.

To create another fields in an object:

1. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Picklist” and Click on Next
4. Fill the Above as following:
  - Field Label : Gender
  - Field Name : Gender
  - Enter values, with each value separated by a new line :
    - Female
    - Male
  - Click on Next >> Next >> Save and new.

To create another fields in an object:

5. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
6. Now click on “Fields & Relationships” >> New
7. Select Data type as a “Date” and Click on Next
8. Fill the Above as following:
  - Field Label : Available On
  - Field Name : Available On
  - Click on required check box
  - Click on Next >> Next >> Save and new.

To create another fields in an object:

9. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
10. Now click on “Fields & Relationships” >> New
11. Select Data type as a “Number” and Click on Next
12. Fill the Above as following:
  - Field Label : Age
  - Field Name : Age
  - Click on required check box
  - Click on Next >> Next >> Save and new.

To create another fields in an object:

13. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
14. Now click on “Fields & Relationships” >> New
15. Select Data type as a “Email” and Click on Next
16. Fill the Above as following:
  - Field Label : Email
  - Field Name : Email
  - Click on required check box
  - Click on Next >> Next >> Save and new.

To create another fields in an object:

17. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
18. Now click on “Fields & Relationships” >> New
19. Select Data type as a “Number” and Click on Next
20. Fill the Above as following:
  - Field Label : Contact Number
  - Field Name : Contact\_Number
  - Click on required check box
  - Click on Next >> Next >> Save and new.

To create another fields in an object:

21. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
22. Now click on “Fields & Relationships” >> New
23. Select Data type as a “Text Area (Long)” and Click on Next
24. Fill the Above as following:
  - Field Label : Address
  - Field Name : Address
  - Click on Next >> Next >> Save and new.

To create another fields in an object:

25. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
26. Now click on “Fields & Relationships” >> New
27. Select Data type as a “Date” and Click on Next
28. Fill the Above as following:
  - Field Label : Date of Birth
  - Field Name : Date\_of\_Birth
  - Click on Next >> Next >> Save and new.

Field Label	Name	Type
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
Drop-Off Point	Drop_Off_Point_c	Master-Detail(Drop-Off Point)
Email	Email_c	Email
Execution ID	Execution_ID_c	Auto Number
Gender	Gender_c	Picklist
Last Modified By	LastModifiedByid	Lookup(User)
Owner Name	Owner_Name_c	Text Area(255)
Volunteer ID	Volunteer_ID_c	Auto Number
Volunteer Name	Name	Text(80)

### Creation of fields for the Execution Details object

1. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Auto Number” and Click on Next
4. Fill the Above as following:
  - Field Label : Execution ID
  - Field Name : gets auto generated
  - Click on required check box
  - Click on Next >> Next >> Save and new.

**Fields & Relationships**  
5 Items, Sorted by Field Label

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)		✓

## FLOWWS

### 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.
2. Select the Screen flow. Click on create.
3. Click on the '+' icon in between start and end, and click on screen element.
4. Under the Screen Properties:

Label : Venue Details

API Name : Venue\_Details

Now lets add components in this flow. Click on Text Component and name it as:

Label : Venue Name

API Name : Venue\_Name

Click on Email Component and name it as:

Label : Email

API Name : Contact\_Email

Click on Phone Component and name it as:

Label : Phone

API Name : Contact\_Phone

Click on Text Component and name it as:

Label : Venue Location

API Name : Venue\_Location

Click on Number Component and name it as:

Label : Latitude

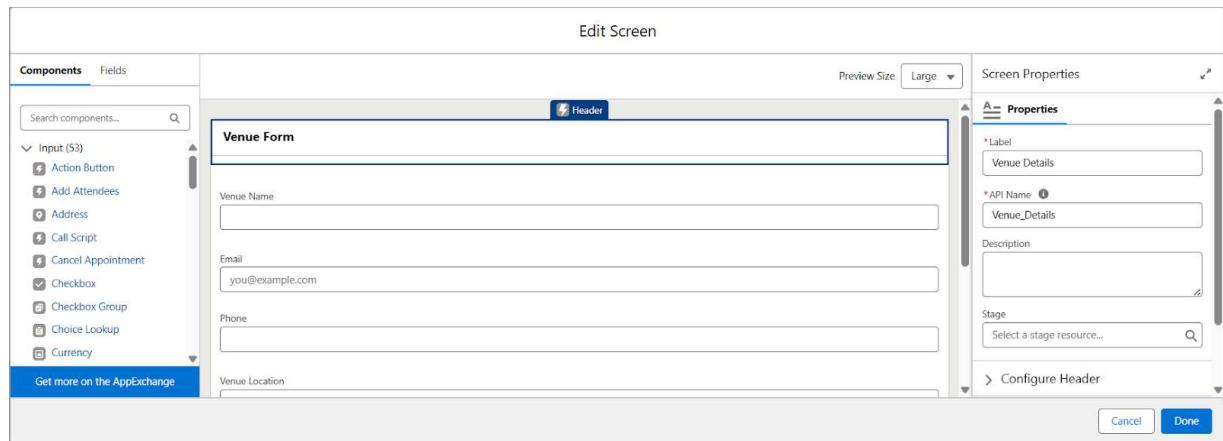
API Name : Latitude

Click on Number Component and name it as:

Label : longitude

API Name : longitude

Next click on Done. This would like below



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

Now label it as

Label : Create Venue Record

API Name : Create\_Venue\_Record

How Many Records to Create : One

How to Set the Record Fields : Use separate resources, and literal values

Object : Venue

Set Field Values for the Venue : Click on 'Add Field' 5 times

Field : Value = Contact\_Email\_\_c : {!Contact\_Email.value}

Field : Value = Contact\_Phone\_\_c : {!Contact\_Phone.value}

Field : Value = Name : {!Venue\_Name}

Field : Value = Venue\_Location\_\_c : {!location}

Field : Value = Location\_Latitude\_\_s : {!latitude}

Field : Value = Location\_Longitude\_\_s : {!longitude}

14. This would look like:

**Create Records**

\*Object  
Venue

Set Field Values for the Venue

Field A_a Contact Email X	Value A_a Venue Details > Email > Value X
Field A_a Contact Phone X	Value A_a Venue Details > Contact_Phone > Value X
Field # Location (Latitude) X	Value # Venue Details > Latitude X
Field # Location (Longitude) X	Value # Venue Details > longitude X
Field A_a Venue Name X	Value A_a Venue Details > Venue Name X
Field A_a Venue Location X	Value A_a Venue Details > Venue Location X

+ Add Field

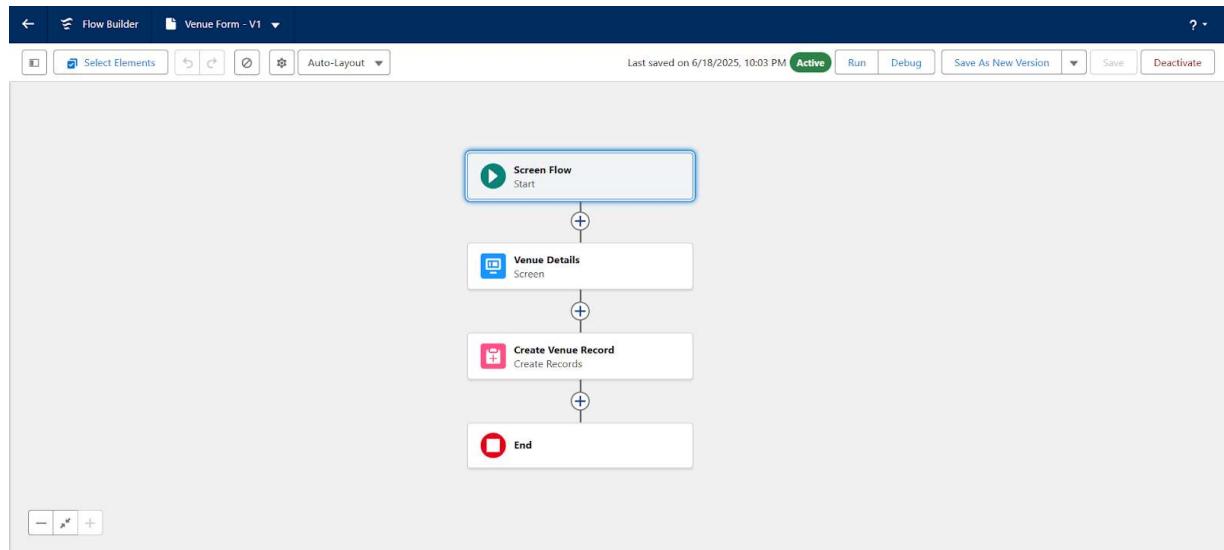
Manually assign variables (advanced)

Check for Matching Records  Disabled

### 15. Click on Save as:

Flow Label : Venue Form

Flow API Name : Venue\_Form



### 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.
5. Enter Name : DropOffTrigger  
sObject: Drop-Off Point
6. Click on Submit.

### Trigger Code

(This Trigger is to assign Distance field to the Distance Calculation field. So that we can assign the distance in the sharing rules.)

The screenshot shows the Salesforce IDE interface. The top navigation bar includes File, Edit, Debug, Test, Workspace, Help, and various tool icons. The main area is titled "DropOffTrigger.apxt" and contains the following Apex trigger code:

```

1 trigger DropOffTrigger on Drop_Off_point__c (before insert) {
2
3     for(Drop_Off_point__c Drop : Trigger.new){
4
5         Drop.Distance__c = Drop.distance_calculation__c;
6
7     }
8
9 }

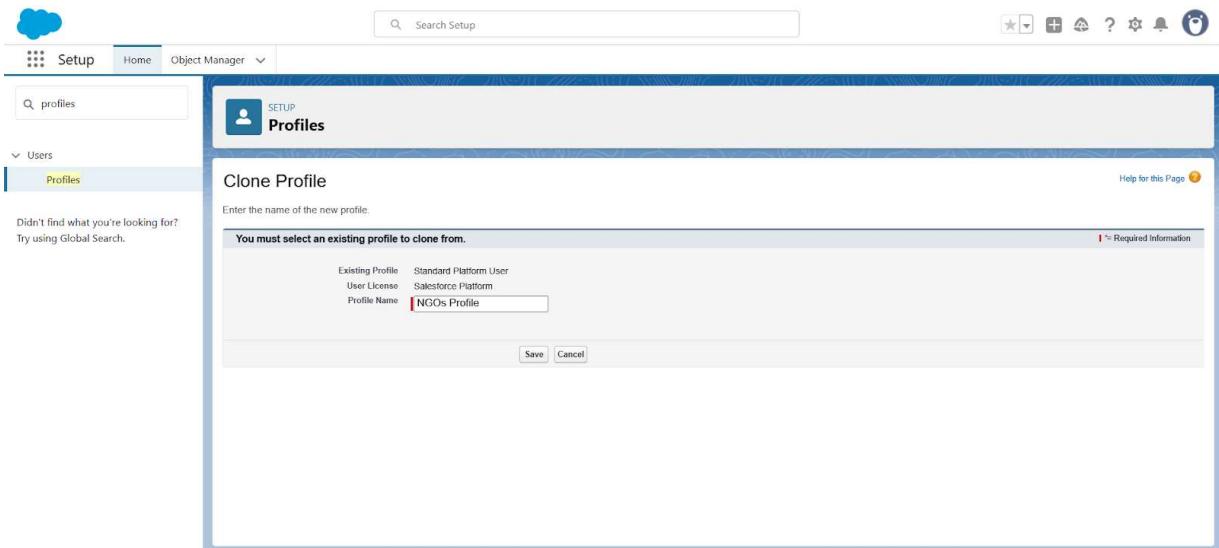
```

Below the code editor is a "Logs" tab, which is currently selected. The logs table has columns for Log ID, User, Application, Operation, Time, Status, Read, and Size. There are no logs listed in the table.

### Profiles

1. 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:

### Profile Name : NGOs Profile



4. Then click on Save

### Creation of Users

In our Project we consider them as NGO's

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

First Name : Iksha Foundation

Last Name : Iksha\_Foundation

Alias : iiksh

Email : Give Your Email

Username : [ikshafoundation@sb.com](mailto:ikshafoundation@sb.com) (give the username different)

Nickname : Auto Populated

User License : Salesforce Platform

Profile : NGOs Profile

Active : Check

1. Create another Two Users by following steps in Activity - 1 with similar User License and Profile.
2. Give Different First Name, Last Name based on Different NGO's.

Action	Full Name	Alias	Username	Role	Active	Profile
<input type="checkbox"/>   Edit	Chatter Expert	Chatter	chatty@00dgk000005goc-tua@chatter.salesforce.com		<input checked="" type="checkbox"/>	Chatter Free User
<input type="checkbox"/>   Edit	EPIC_OrgFarm	OEPIG	epic.240004981d0@orgfarm.com		<input checked="" type="checkbox"/>	System Administrator
<input type="checkbox"/>   Edit	Iksha_Foundation_Iksha Foundation	iksh	ikshafoundation@sb.com		<input checked="" type="checkbox"/>	NGOs Profile
<input type="checkbox"/>   Edit	NSS_NSS	nss	nss@sb.com		<input checked="" type="checkbox"/>	NGOs Profile
<input type="checkbox"/>   Edit	Street_Cause_Street_Cause	ssite	streetcause09@gmail.com		<input checked="" type="checkbox"/>	NGOs Profile
<input type="checkbox"/>   Edit	User_Integration	inter	integration@000gx000005gccc1ua0.com		<input checked="" type="checkbox"/>	Analytics Cloud Integration User
<input type="checkbox"/>   Edit	User_Security	sec	insightsecurity@00dgk000005gccc1ua0.com		<input checked="" type="checkbox"/>	Analytics Cloud Security User
<input type="checkbox"/>   Edit	Vijay_Likhitha_Aditya_Hamtha	tch	tchshaditya0975@agentforce.com		<input checked="" type="checkbox"/>	System Administrator

## Public Groups

### Creation of Public Group 1

1. Go to setup page >> type Public Groups in Quick Find bar >> click on Public Groups >> click on New.
2. Under Group Information:
  - Label : Iksha
  - Group Name : Iksha
  - Grant Access Using Hierarchies : Check
3. In Search, Select Users.
4. In Selected Members Add Iksha Foundation and System Administrator

### Creation of Public Group 2

1. By Following Steps in Activity 1, Create other two Public Groups for other two users.
2. After Saving this would look like this.

The screenshot shows the Salesforce Setup interface. The left sidebar has a 'Setup' icon and navigation links for Home, Object Manager, and a search bar labeled 'Search Setup'. Under 'Users', the 'Public Groups' link is selected. A message says 'Didn't find what you're looking for? Try using Global Search.' The main area is titled 'Public Groups' with a sub-header '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.' Below this is a table with columns: Action, Label, Group Name, Created By, and Created Date. The table contains three rows:

Action	Label	Group Name	Created By	Created Date
Edit   Del	Iksha	Iksha	Vijay Likhitha, Aditya Haritha	6/20/2025, 4:22 AM
Edit   Del	NSS	NSS	Vijay Likhitha, Aditya Haritha	6/20/2025, 4:23 AM
Edit   Del	Streetent_Cause	Streetent_Cause	Vijay Likhitha, Aditya Haritha	6/20/2025, 4:24 AM

At the bottom of the table, there are navigation links: 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.

## Report Types

### Creation of Report Types

1. 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:

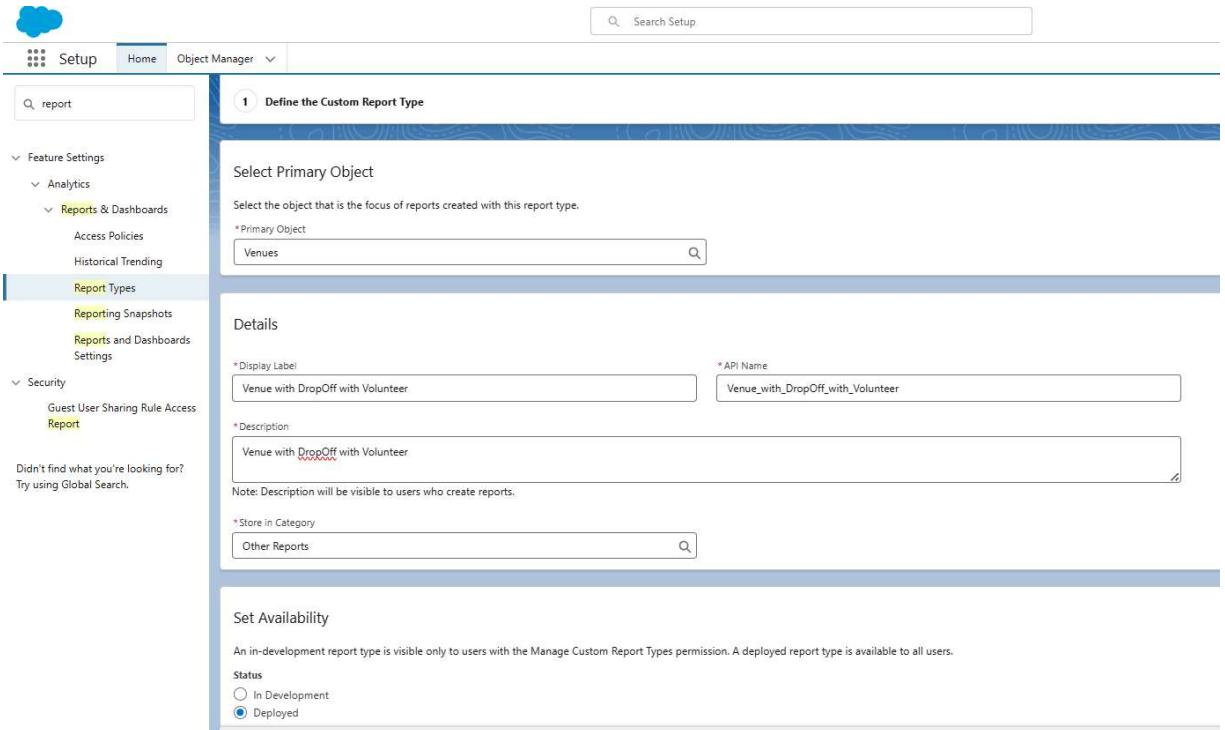
Primary Object : Select Venues

Report Type Label : Venue with DropOff with Volunteer

Report Type Name : Venue\_with\_DropOff\_with\_Volunteer

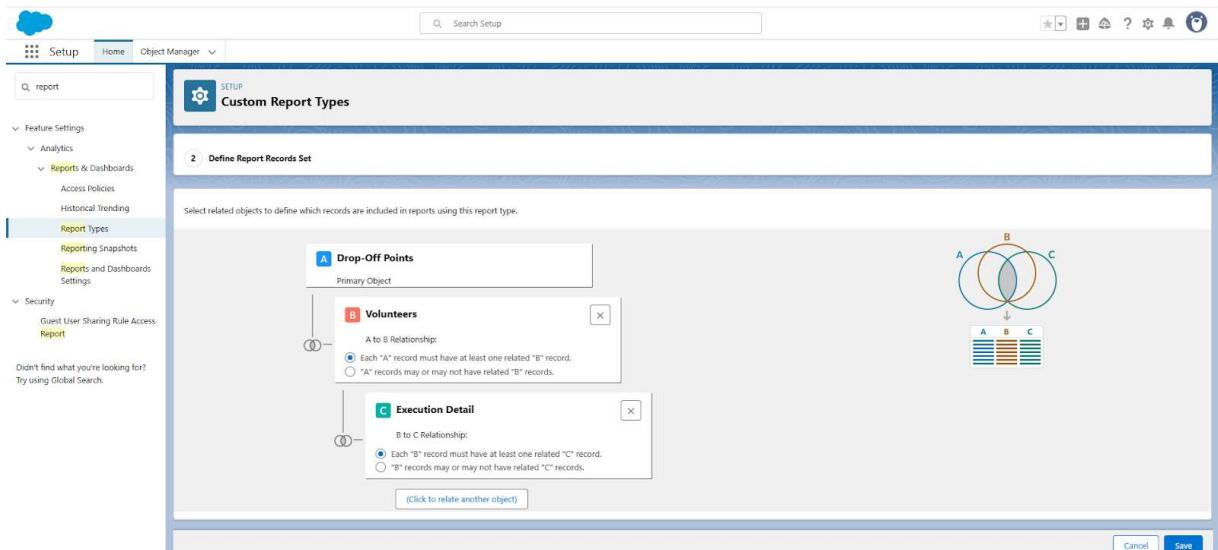
Description : Venue with DropOff with Volunteer

Store in Category : Select Other Reports



### Deployment Status : Deployed

3. Click on Next
4. Near Click to relate another Object Select Drop-Off Points.
5. And also select "A" records may or may not have related "B" records.
6. Now again Near Click to relate another Object Select Volunteers.
7. 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.
- Folder Label : Custom Reports
- Folder Unique Name : CustomReports
3. Open Custom Reports and click on New Report
  4. Select Report Type : Venue with DropOff with Volunteer
  5. Then click on Start Report.
  6. In GROUP ROWS : Add Volunteer Name
  7. In Columns : Add Venue Name, Drop-Off point Name, Distance.

Volunteer Name	Venue Name	Drop-Off Point Name	Distance
(4)	Kukatpally	Kukatpally	1,111.9500
	Gandhinagar	-	-
	ideal collage	-	-
	Gandhi nagar	-	-
<b>Subtotal</b>			1,111.9500
Hari (1)	Gandhi park	GGH	5,586.9100
<b>Subtotal</b>			5,586.9100
Haritha (1)	Kokila	kokila	4,454.8200
<b>Subtotal</b>			4,454.8200
Likhita (1)	Kukatpally	Euro Currency Test	1,190.4200
<b>Subtotal</b>			1,190.4200
Sri (1)	smt mall	hospital	4,045.3100
<b>Subtotal</b>			4,045.3100
Tibirisetti Chiranjeevi Sri Aditya (1)	Kokila	kokila	4,454.8200
<b>Subtotal</b>			4,454.8200

8. Now click on Save & Run.
9. Give Label as :
10. Report Name : venue and Drop Off point
11. Report Unique Name : Auto Populated
12. 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.

The screenshot shows the FoodConnect application interface. A modal window titled "Select Report" is open. On the left, there's a sidebar with sections for "Reports" (Recent, Created by Me, Private Reports, Public Reports, All Reports) and "Folders" (Created by Me, Shared with Me, All Folders). The main area shows a list of reports with details like name, creator, and creation date. The "Volunteer Task" report is highlighted. At the bottom right of the modal are "Cancel" and "Select" buttons.

- 4.
5. Then click on Start Report.
6. In GROUP ROWS : Volunteer ID
7. In Columns : Add Volunteer : Volunteer Name, Task : Task Name, Execution Detail : Execution Detail Name, Volunteer: Owner Name, Task: Date, Task : Rating.
8. Now click on Save & Run.
9. Give Label as :

Report Name : Volunteer Task

Report Unique Name : Auto Populated

1. Click on Select Folder and select Custom Report, then click on Save.
- 10.

The screenshot shows the FoodConnect application interface with a report titled "Volunteer Task". The report view includes a toolbar with options like "Add Chart", "Save & Run", "Save", "Close", and "Run". On the left, there's a sidebar with "Fields" sections for "Groups" and "Columns". The main area displays a table with data rows. The table columns include "Volunteer: Volunteer ID", "Volunteer: Volunteer Name", "Task: Task Name", "Execution Detail: Execution Detail Name", "Volunteer: Owner Name", "Date", and "Rating". The data shows three groups of records, each with a subtotal and a total row at the bottom. At the bottom of the table, there are checkboxes for "Row Counts", "Detail Rows", "Subtotals", and "Grand Total".

Volunteer: Volunteer ID	Volunteer: Volunteer Name	Task: Task Name	Execution Detail: Execution Detail Name	Volunteer: Owner Name	Date	Rating
3 (2)	Haritha	biryani delivery	delivery food	-	6/28/2025	5
	Haritha	biryani delivery	delivery food	-	6/28/2025	5
Subtotal						
5 (1)	Hari	food delivery	food delivery	-	6/25/2025	5
Subtotal						
7 (1)	Sri	food delivery1	food delivery1	-	6/27/2025	5
Subtotal						
Total (4)						

## Dashboards

### Adding venue and Drop Off point Report to the Dashboard

1. Go to the app(FoodConnect) >> click on the Dashboards tab.
2. Click on New Folder.

Folder Label : Custom Dashboards

Folder Unique Name : Auto Populated

3. Open Custom Dashboards and click on New Dashboards
4. Name : Organization Details
5. Click on Widget and select Chart or Table
6. In Select Report : Select venue and Drop Off point Report.
7. Then click on select
8. In Add Component:

Display As : Select Lightning Table

Component Theme : Select Dark (Optional)

1. Now click on save.

### Add Widget

Venue Name	Drop-Off Point Name	Distance
bollaram	Kakinada	361.5700
Gandhinagar	-	-
Gandhi nagar	-	-
Gandhi park	GGH	5.5869k
ideal collage	-	-
Kokila	kokila	4 4548k

 Below the preview is a link 'View Report (venue and Drop Off point)'. At the bottom right are 'Cancel' and 'Add' buttons."/>

Report

venue and Drop Off point

Use chart settings from report

Display As

Groups

Add group...

Preview

venue and Drop Off point

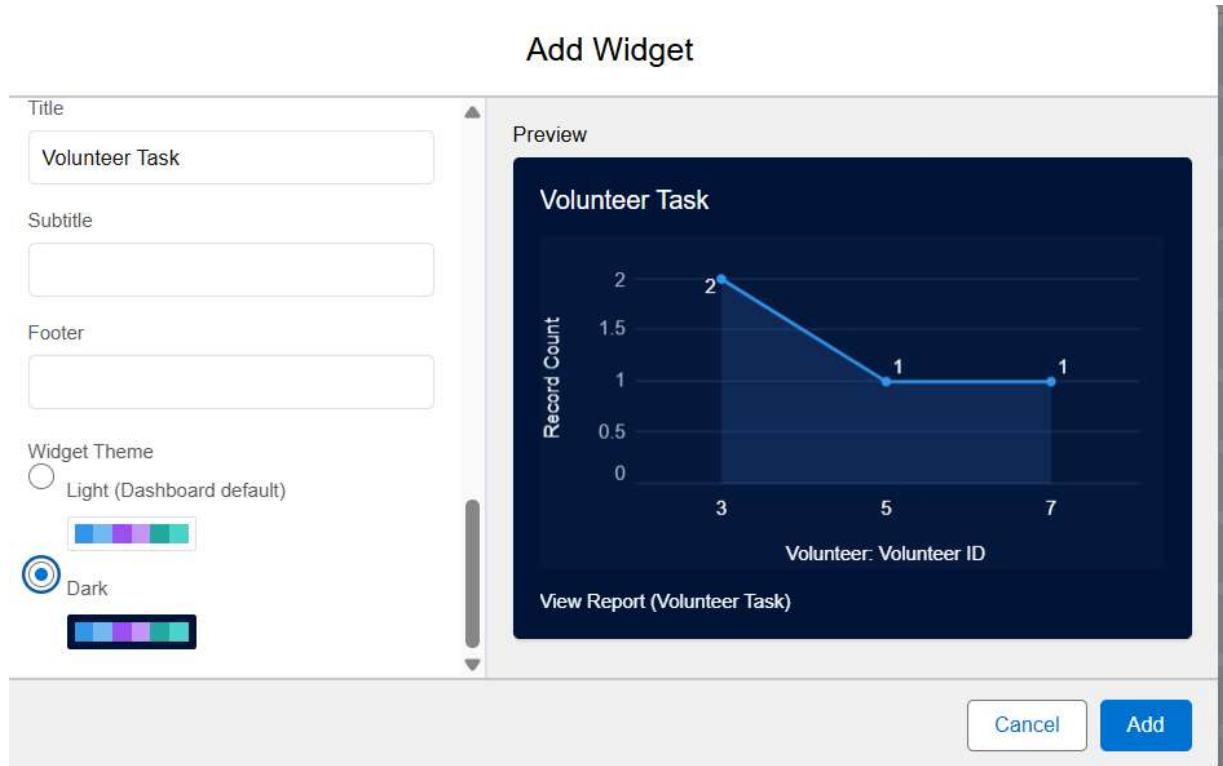
Venue Name	Drop-Off Point Name	Distance
bollaram	Kakinada	361.5700
Gandhinagar	-	-
Gandhi nagar	-	-
Gandhi park	GGH	5.5869k
ideal collage	-	-
Kokila	kokila	4 4548k

View Report (venue and Drop Off point)

Add

### Adding Volunteer Task Report to the Dashboard

1. Click on Widget and select Chart or Table
2. In Select Report : Select Volunteer Task Report.
3. Then click on select
4. In Add Component:
  - Display As : Select Line Chart
  - Component Theme : Select Dark (Optional)
1. Now click on save.



## Adding a Picture to the Dashboard (Optional)

(Note : To upload an image into the Dashboard, we have to first download an image from google or other sources into your system)

1. Click on Widget and select Image. Then click on Browse Files.
2. Then Select the Picture you want to upload in this Dashboard.
3. Then click on Save As :
  - Name : Task Execution Details
  - Click on Select Folder and select Custom Dashboards
4. Click on Select Folder and then Save.

The screenshot shows the FoodConnect platform's Task Execution Details dashboard. On the left, there is a table titled "venue and Drop Off point" with columns for Venue Name, Drop-Off Point Name, and Distance. The table lists several locations with their corresponding drop-off points and distances. In the center, there is a chart titled "Volunteer Task" showing the record count versus volunteer ID. On the right, there is a photograph of people serving food from a buffet.

Venue Name	Drop-Off Point Name	Distance
bollaram	Kakinada	361.5700
Gandhinagar	-	-
Gandhi nagar	-	-
Gandhi park	GGH	5.5869km
ideal collage	-	-
Kokila	kokila	4.4548km
Kukatpally	Kukatpally	1.1119km

Volunteer Task

Record Count

Volunteer: Volunteer ID

## 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.
3. Click on new near Drop-Off point Sharing Rules and Name it as:  
Label : Rule 1  
Rule Name : Rule\_1
4. Select your rule type : Select Based on criteria.
5. Select which records to be shared:  
Field : Operator : Value = Distance : less than : 15
6. Select the users to share with : Near Share With  
Public Groups : Iksha
7. Click on Save.
8. Click on new near Drop-Off point Sharing Rules and Name it as:  
Label : Rule 2  
Rule Name : Rule\_2
9. Select your rule type : Select Based on criteria.
10. Select which records to be shared:  
Field : Operator : Value = Distance : greater than : 15  
Field : Operator : Value = Distance : less or equal : 30
11. Select the users to share with : Near Share With  
Public Groups : NSS

12. Click on Save.

13. Click on new near Drop-Off point Sharing Rules and Name it as:

Label : Rule 3

Rule Name : Rule\_3

14. Select your rule type : Select Based on criteria.

15. Select which records to be shared:

Field : Operator : Value = Distance : greater than : 30

Field : Operator : Value = Distance : less or equal : 50

16. Select the users to share with : Near Share With

Public Groups : Street Cause

17. Click on Save.

Action	Criteria	Shared With	Access Level
Edit   Del	(Drop-Off Point: Distance LESS THAN 15)	Group_Iksha	Read Only
Edit   Del	(Drop-Off Point: Distance GREATER THAN 15) AND (Drop-Off Point: Distance LESS OR EQUAL 30)	Group_NSS	Read Only
Edit   Del	(Drop-Off Point: Distance GREATER THAN 30) AND (Drop-Off Point: Distance LESS OR EQUAL 50)	Group_StreetCause	Read Only

## Creation of Home Page

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..
5. On the right hand side:  
Flow : Venue Flow
6. Near Components search for Dashboard, then Drag and Drop it in first Section.

The screenshot shows the Lightning App Builder interface. On the left, there's a sidebar with 'Components' and a search bar. The main area contains a dashboard titled 'Task Execution Details' with a table of venue and drop-off point data and a line chart of volunteer tasks. To the right, a 'Venue Form' component is being edited, showing fields for venue name, email, phone, location, latitude, and longitude. Buttons for 'Activation...', 'Save', and 'Next' are at the bottom.

7. Click on Save and Activation, then click on App Default, then Add Assignments.
8. Add FoodConnect App and then Save.
9. FoodConnect Home Page would Look Like this.

The screenshot shows the final state of the FoodConnect application. The home page includes the 'Task Execution Details' dashboard and a 'Venue Form' section. The form fields are identical to those in the App Builder: Venue Name, Email, Phone, Venue Location, Latitude, and Longitude. A 'Next' button is visible at the bottom right of the form.

## 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.

# Project Executable Files

Date	
Team ID	LTVIP2025TMID31460
Project Name	To Supply Leftover Food to Poor
College Name	Ideal Institute Of Technology

## Step-1:Project files

### Data Models

These represent the core data structures of your project:

```
const FoodDonation = { id: String,  
  
  donorId: String,  
  
  foodType: String,  
  
  quantity: String,  
  
  location: String,  
  
  pickupTime: Date,  
  
  status: "pending" | "picked" | "delivered",  
  
};
```

Each one contains fields needed to track users, food, and logistics.

---

## Database Schema

Relational schema includes:

```
CREATE TABLE food_donations (
    id INT PRIMARY KEY,
    donor_id INT,
    food_type VARCHAR(100),
    quantity VARCHAR(50),
    location VARCHAR(255),
    pickup_time DATETIME,
    status VARCHAR(20)
);
```

Each uses foreign keys to maintain referential integrity.

---

## Business Logic Sample

Example function:

```
function assignVolunteerToFood(foodId) {  
  
  const availableVolunteers =  
    findAvailableVolunteersNear(foodLocation);  
  
  if (availableVolunteers.length) {  
  
    const assigned = availableVolunteers[0];  
  
    createDeliveryRecord(foodId, assigned.id);  
  
    notifyVolunteer(assigned.id, foodId);  
  
  } else {  
  
    log("No volunteers available nearby");  
  
  }  
}
```

This automates assigning volunteers to donations.

## Step-2: Dataset

### Venue dataset

Venue Name | Contact Email | Contact Phone | latitude , Longitude | Venue

srmt mall	<a href="mailto:srmt@gmail.com">srmt@gmail.com</a>	789456123	23, 97	Kakinada
ideal collage	<a href="mailto:abc@gmail.com">abc@gmail.com</a>	465132899	23, 90	Kakinada
Gandhi park	<a href="mailto:abc@gmail.com">abc@gmail.com</a>	123123312	23, 45	Kakinada
Kokila	<a href="mailto:tchsadit@gmail.com">tchsadit@gmail.com</a>	0994839598	34, 45	kakinada
Bollaram	<a href="mailto:vijay09@gmail.com">vijay09@gmail.com</a>	9347699961	66, 86	Vizag
Kukatpally	<a href="mailto:likhitha89@gmail.com">likhitha89@gmail.com</a>	9966689188	56, 78	HYDERABAD

The screenshot shows the FoodConnect application's 'Venues' page. At the top, there's a navigation bar with links like Home, Venues, Drop-Off Points, Tasks, Volunteers, Execution Detail, Reports, and Dashboards. Below the navigation is a search bar and a toolbar with icons for New, Import, Change Owner, and Assign Label. The main area displays a list of venues under the heading 'Recently Viewed'. The list contains six items, each with a checkbox and the venue name: Kukatpally, bollaram, Kokila, Gandhi park, ideal collage, and srmt mall. To the right of the list is a detailed view of the selected item, 'srmt mall'.

The screenshot shows the detailed view of the 'srmt mall' venue within the FoodConnect application. The left side of the screen has a sidebar with tabs for 'Related' and 'Details'. Under 'Details', there are fields for Venue Name (srmt mall), Contact Email (srmt@gmail.com), Contact Phone (789456123), Location (23, 97), and Venue Location (Kakinada). There's also a note about creation by Aditya Haritha Vijay Likhitha on 6/27/2025, 3:20 AM. On the right side, there's a section titled 'Activity' with various icons for calendar, document, task, and email. A message indicates 'No activities to show.' Below the activity section, another message says 'No past activity. Past meetings and tasks marked as done show up here.'

## Drop-Off Points Dataset

DFP name	venue_c	Latitude   Longitude	State	Distance
Euro Currency Test	<a href="#">Kukatpally</a>	66, 86	Andhra Pradesh	1,190.4200
Hospital	<a href="#">srmt mall</a>	66, 86	Andhra Pradesh	4,845.3100
GGH	<a href="#">Gandhi park</a>	66, 87	Andhra Pradesh	5,586.9100
Kakinada	<a href="#">bollarlam</a>	66, 78	Andhra Pradesh	361.5700
Kokila	<a href="#">Kokila</a>	66, 86	Andhra Pradesh	4,454.82
Kukatpally	Kukatpally	66, 78	Andhra Pradesh	1,111.9500

The screenshot shows a list of drop-off points under the 'Recently Viewed' section. The list includes:

- 1 GGH
- 2 Kukatpally
- 3 Kokila (selected)
- 4 Kakinada
- 5 hospital
- 6 Euro Currency Test

The screenshot shows the details for a drop-off point named 'hospital'. The details are as follows:

- Drop-Off Point Name: hospital
- Venue\_c: srmt mall
- Location 2: 66, 86
- distance calculation: 4,845.31
- State: Andhra Pradesh
- Distance: 4,845.3100
- Created By: Aditya Haritha Vijay Likhitha (last modified by the same user at 6/27/2025, 3:21 AM)

The activity section indicates that there are no upcoming or overdue activities.

## ☐ Tasks Dataset

TaskName	Venue	DFP name	Dist	Date	FoodCategory	No.of PeopleServed
----------	-------	----------	------	------	--------------	--------------------

food delivery	<a href="#">Kukatpally</a>	<a href="#">Kukatpally</a>	567	6/21/2025	Non-Veg	12
food delivery	<a href="#">Kokila</a>	<a href="#">Kakinada</a>	545	6/27/2025	Non-Veg	12
Biryani delivery	<a href="#">bollaram</a>	<a href="#">Kukatpally</a>	567	6/28/2025	Non-Veg	20
breakfast delivery	<a href="#">ideal collage</a>	<a href="#">Kukatpally</a>	675	7/1/2025	Salad	2
food deliver	<a href="#">Gandhi park</a>	<a href="#">GGH</a>	10	6/25/2025	Non-Veg	13
food donation	<a href="#">deal collage</a>	<a href="#">hospital</a>	10.	6/26/2025	Veg	10
food delivery1	<a href="#">srmt mall</a>	<a href="#">hospital</a>	15	6/27/2025	Veg	12

## □ Volunteers Dataset

Volunteer name	DFPName	Gender	AvailableOn	age	email	ContactNum
Aditya	<a href="#">kokila</a>	Male	6/23/2025	20	<a href="mailto:tchsaditya@gmail.com">tchsaditya@gmail.com</a>	9948395910
Likitha	<a href="#">Euro Currency</a>	Female	6/27/2025	20	<a href="mailto:likitha09@gmail.com">likitha09@gmail.com</a>	9948390980
Haritha	<a href="#">kokila</a>	Female	6/27/2025	20	<a href="mailto:haritha36@gmail.com">haritha36@gmail.com</a>	9533913336
Vijay	<a href="#">Kakinada</a>	Male	6/28/2025	19	<a href="mailto:vijay61@gmail.com">vijay61@gmail.com</a>	9347699961
Hari	<a href="#">GGH</a>	Male	6/25/2025	20	<a href="mailto:hari@gmail.com">hari@gmail.com</a>	8445946546
Sri	<a href="#">hospital</a>	Female	6/27/2025	19	<a href="mailto:sri@gmail.com">sri@gmail.com</a>	6690949977

The screenshot shows the FoodConnect application interface. At the top, there's a navigation bar with links like Home, Venues, Drop-Off Points, Tasks, Volunteers (which is the active tab), Execution Detail, Reports, and Dashboards. Below the navigation is a search bar and a toolbar with icons for New, Import, and Assign Label. The main area displays a list titled 'Volunteers' under 'Recently Viewed'. The list contains the following items:

Rank	Volunteer Name
1	<input checked="" type="checkbox"/> Sri
2	<input type="checkbox"/> Hari
3	<input type="checkbox"/> vijay
4	<input type="checkbox"/> Haritha
5	<input type="checkbox"/> Likitha
6	<input type="checkbox"/> Aditya

## Execution Detail Dataset

Execution Detail name	Volunteer	Task
<b>delivery food</b>	<u>Haritha</u>	<u>biryani delivery</u>
<b>delivery food</b>	<u>Haritha</u>	<u>biryani delivery</u>
<b>food delivery</b>	<u>Hari</u>	<u>food delivery</u>
<b>food delivery1</b>	<u>Sri</u>	<u>food delivery1</u>

The screenshot shows a software interface titled 'FoodConnect'. At the top, there's a navigation bar with links like Home, Venues, Drop-Off Points, Tasks, Volunteers, Execution Detail, Reports, and Dashboards. Below the navigation is a search bar and a toolbar with various icons. The main area is titled 'Execution Detail Recently Viewed'. It lists four items, each with a checkbox and a link: 'food delivery1', 'food delivery', 'delivery food', and 'delivery food'. To the right of the list are buttons for New, Import, and Assign Label.

The screenshot shows the 'FoodConnect' software interface with the title 'Execution Detail food delivery1'. The left side has tabs for Related and Details. Under Details, it shows the Execution Detail Name (food delivery1), Volunteer (Sri), and Task (food delivery1). It also shows the 'Created By' information (Aditya Haritha Vijay Likhitha) and the 'Last Modified By' information (Aditya Haritha Vijay Likhitha). On the right side, there's a section titled 'Activity' with a toolbar for different activity types. Below it, a message says 'No activities to show.' and 'Get started by sending an email, scheduling a task, and more.' There's also a note about past activity: 'No past activity. Past meetings and tasks marked as done show up here.'

## □ Output Screenshot

The screenshot shows the FoodConnect application interface. On the left, there is a sidebar with a navigation menu including Home, Venues, Drop-Off Points, Tasks, Volunteers, Execution Detail, Reports, and Dashboards. The main content area has two main sections: "Task Execution Details" and "Venue Form".

**Task Execution Details:**

- Dashboard:** Task Execution Details
- Date:** As of Jun 27, 2025, 12:00 PM (Viewing as Aditya Hantha Vijay Likhitha)
- venue and Drop Off point:**

Venue Name	Drop-Off Point Name	Distance
bollaram	Kakinada	361.5700
Gandhi park	GGH	5.5869k
ideal cottage	-	-
Kokila	Kokila	4.4548k
Kukatpally	Kukatpally	1.1119k
Kukatpally	Euro Currency Test	1.1904k
smt mall	hospital	4.8453k
- Volunteer Task:** A line chart titled "Record Count" vs "Volunteer ID". The Y-axis ranges from 0 to 2, and the X-axis ranges from 3 to 7. The data points are: (3, 2), (5, 1), and (7, 1).
- Buttons:** Open, Refresh, Subscribe, Next

**Venue Form:**

- Fields:** Venue Name, Email, Phone, Venue Location, Latitude, Longitude.
- Buttons:** Next

## Future Scope

Date	
Team ID	LTVIP2025TMID31460
Project Name	To Supply Leftover Food to Poor
College Name	Ideal Institute Of Technology



## Future Scope

The “To Supply Leftover Food to Poor” project has immense potential for growth and scalability. As awareness, technology, and social responsibility continue to rise, the platform can evolve into a robust, nationwide or even global food redistribution system. Below are the key areas where the project can expand:



### 1. Geographical Expansion

- Scale the platform across multiple cities, rural areas, and states.
- Integrate with government hunger relief schemes for broader reach.
- Partner with global NGOs to adapt the model internationally.



### 2. Mobile App Enhancements

- Introduce multilingual support for wider accessibility.
- Include AI-based chat assistants to guide first-time users.
- Offline functionality for low-connectivity areas.

### 3. AI & Smart Matching

- Use AI and machine learning to:
    - Predict demand in high-need areas.
    - Optimize volunteer routing and delivery schedules.
    - Recommend the nearest NGO based on capacity and past delivery success.
- 

### 4. Real-Time Inventory & Food Quality Monitoring

- Integrate IoT devices (e.g., smart containers, temperature sensors) to monitor food quality during transport.
  - Auto-expiry alerts and freshness scoring using barcode/QR scanning.
- 

### 5. Corporate & Institutional Partnerships

- Collaborate with large food chains, hotels, hospitals, and schools to contribute regularly.
  - Offer CSR dashboards to show impact metrics and generate CSR certification automatically.
- 

### 6. Blockchain Integration for Transparency

- Use blockchain technology to track donations, delivery, and recipient feedback.
  - Build donor confidence by creating a tamper-proof transaction history.
- 

### 7. Legal & Policy Framework Integration

- Work with policymakers to create food donation protection laws (Good Samaritan Laws).

- Offer legal assurance and guidelines to donors to reduce hesitation in participation.
- 

## 8. Awareness & Educational Campaigns

- Launch campaigns in schools, colleges, and communities to promote zero-waste culture.
  - Encourage students to volunteer as part of service-learning or internship programs.
- 

## 9. Monetization & Funding Model

- Introduce subscription-based CSR tools for businesses.
  - Accept donations to fund transportation, food packaging, and volunteer efforts.
  - Collaborate with food tech companies for sponsorships or technical support.
- 

## 10. Impact Analytics Dashboard

- Build dashboards to track:
    - Total food saved
    - Number of people fed
    - Environmental impact (e.g., CO<sub>2</sub> saved)
  - Use data to attract donors, funders, and policy-level support.
- 

This future scope outlines a visionary pathway for the project, ensuring it doesn't remain a one-time initiative but becomes a sustainable, scalable, and data-driven movement to fight food waste and hunger globally.

**Github Link:** <https://github.com/tchsaditya09/To-supply-leftover-food-to-poor>

**Demo video Link:** <https://youtu.be/vgagISNhjuY>