# **To Supply Leftover Food To Poor**

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# 1. Project Overview

This project focuses on "FoodConnect," an application built on the Salesforce platform, designed to address the challenge of food wastage and hunger. The primary objective is to connect donors with surplus food to organizations or individuals in need, ensuring efficient redistribution of leftover food to the underprivileged. By leveraging Salesforce's robust features, such as cloud-based data management, real-time collaboration, and automated workflows, the application facilitates seamless coordination between food donors, transport providers, and beneficiaries.

The platform ensures that food is safely and promptly delivered to those in need, reducing waste while combating hunger. FoodConnect also provides features for tracking donations, monitoring delivery status, and generating reports for transparency and accountability. By focusing on the equitable distribution of excess food, this project not only supports the basic needs of the poor but also fosters a culture of social responsibility among donors. Through this initiative, we aim to minimize food wastage, enhance food security for the underprivileged, and support long-term social impact goals aligned with global sustainability efforts.

### 2. Objectives

#### **Business Goals:**

- 1. **Reduce Food Wastage:** Streamline the process of collecting and redistributing surplus food, minimizing food waste from donors such as restaurants, grocery stores, and event organizers.
- 2. **Support Hunger Relief:** Ensure that leftover food reaches underprivileged communities effectively, contributing to the reduction of hunger and food insecurity.

# **Specific Outcomes:**

- 1. **Efficient Donor Management System:** Develop a user-friendly platform where donors can easily register, schedule food pickups, and track their contributions.
- 2. **Enhanced Beneficiary Reach:** Build a database of NGOs, shelters, and individuals to match food availability with demand in real-time.

### 3. Detailed Steps to Solution Design

#### **Creating Custom Object.**

#### steps

- 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.

Following the steps to creat custom objects are venue, Drop-of point, Task,

#### Volunteer and Execution Details

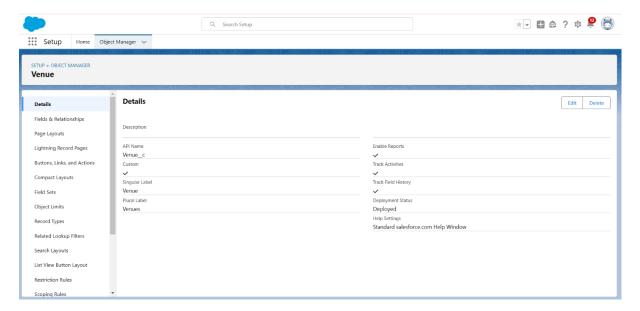


Fig: Venue object

#### **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**

#### steps

 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.

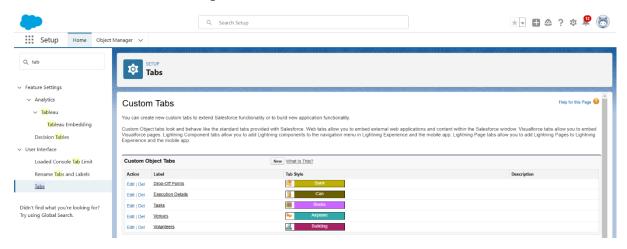


Fig: Custom Tabs

#### Create a Lightning App

#### To create a lightning app page:

- 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.

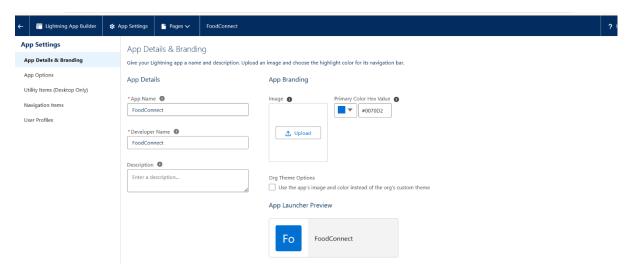


Fig: Lightning App Foodconnect

- 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.

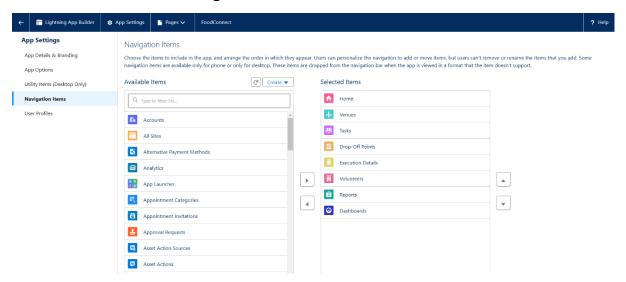


Fig: Lightning App Utility Items

6. To Add User Profiles: Search profiles (System administrator) in the search bar >> click on the arrow button >> save & finish.

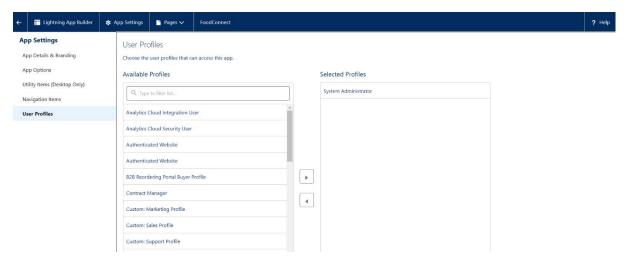


Fig: Lightning App System administrator

#### **Fields**

# Creation of Relationship fields in objects

1. Creation of Relationship Field on Volunteer Object

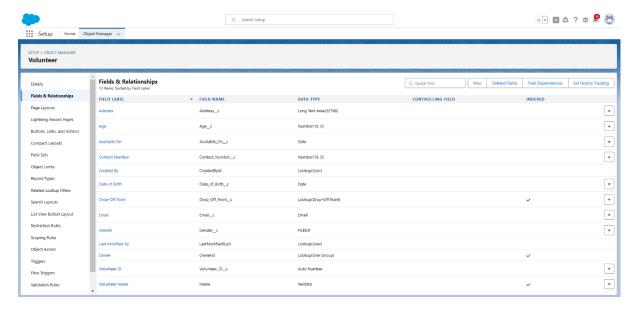


Fig: Relationship Field on Volunteer Object

2. Creation of fields for the Venue object

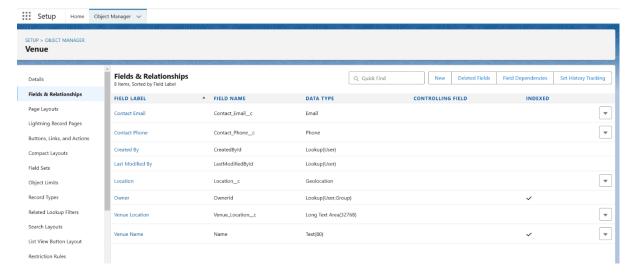


Fig: Field on Venue Object

3. Creation of fields for the Drop-Off point object

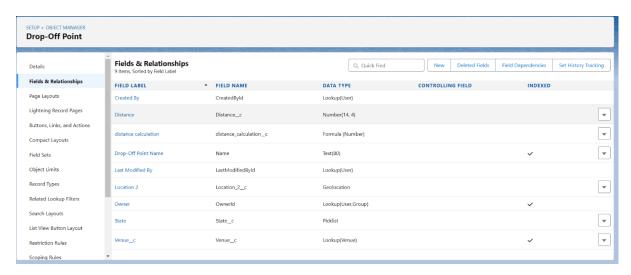


Fig: Field on Drop-Off point Object

4. Creation of fields for the Task object

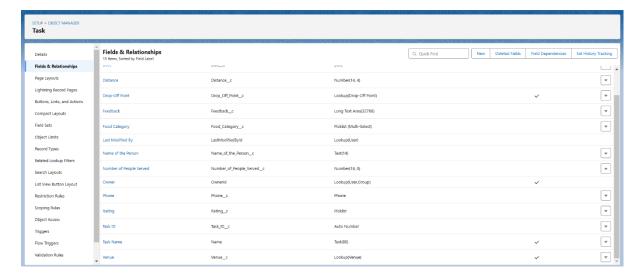


Fig: Field on Task Object

5. Creation of fields for the Execution Details object

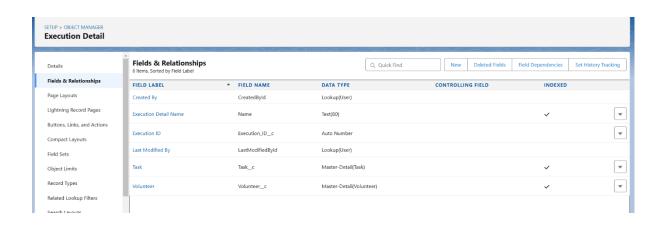


Fig: Field on Execution Details Object

#### **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.
- 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

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

Label: Venue Name

API Name: Venue Name

6. Click on Email Component and name it as:

Label: Email

API Name: Contact\_Email

7. Click on Phone Component and name it as:

Label: Phone

API Name: Contact Phone

8. Click on Text Component and name it as:

Label: Venue Location

API Name: Venue Location

9. Click on Number Component and name it as:

Label: Latitude

API Name: Latitude

10. Click on Number Component and name it as:

Label: longitude

API Name : longitude



Fig: Screen Venue Details

- 11. Next click on Done. This would like below
- 12.Click on the '+' icon in between Venue details and end, and click on create record element.
- 13. 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}

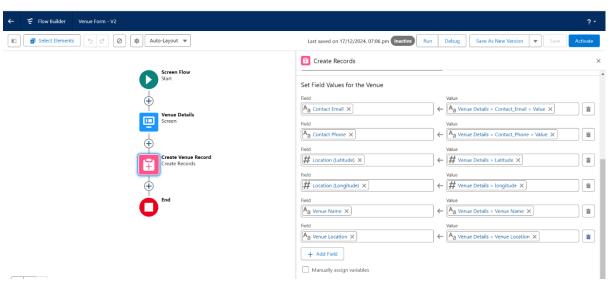


Fig: Venue record

- 14. This would look like:
- 15. Click on Save as:

Flow Label: Venue Form

Flow API Name: Venue\_Form

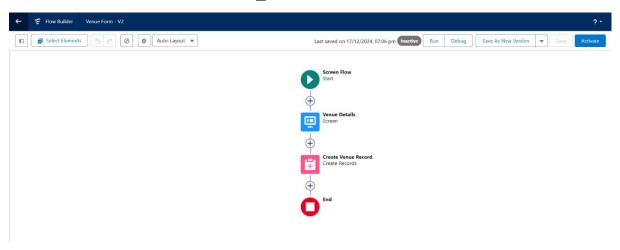


Fig: Venue form flow

# 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.
- 5. Enter Name : DropOffTrigger

sObject: Drop-Off Point

6. Click on Submit.

Fig: Trigger code

#### **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**

- 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 : <u>ikshafoundation@sb.com</u> (give the username different)

Nickname: Auto Populated

User License: Salesforce Platform

Profile: NGOs Profile

Active: Check

#### Creation of User2, User3

user2:NSS

user3:Street Cause

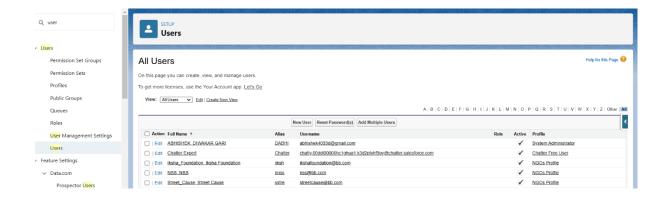


Fig: Users

#### Creation of Public Group 1 & 2

- 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

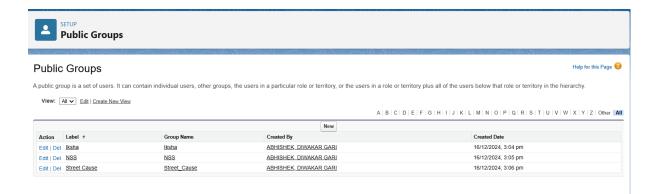


Fig :Public Group 1 & 2

#### **Creation of Report Types 1**

- 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.

# **Report Types 2**

# Report Type Label: Volunteers with Execution Details and Tasks Report Type Name: Volunteers with Execution Details and Tasks

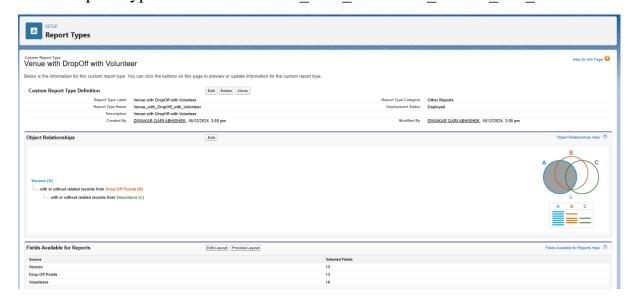


Fig: Venue with DropOff with Volunteer

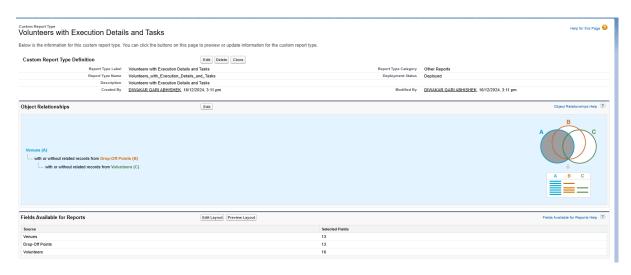


Fig:Volunteers with Execution Details and Tasks

# **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.
- 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.

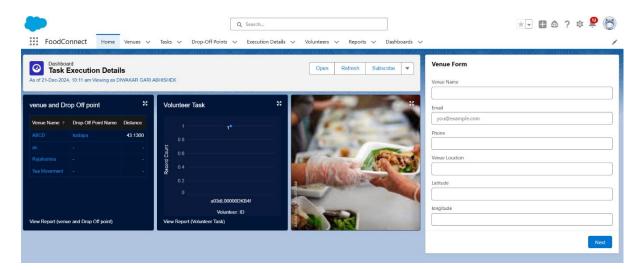


Fig: Home Page FoodConnect

# 4. Implementation Project

Step1: Filling Venue form to collect leftover food

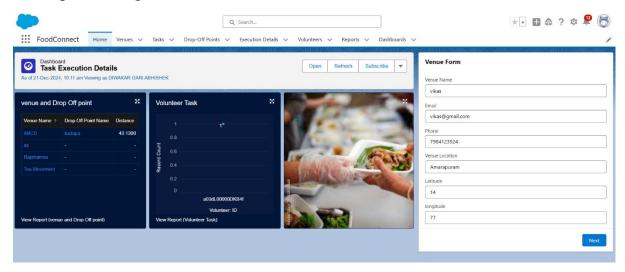


Fig: Venue form details

Step 2: Filling New Task Details under venue Form

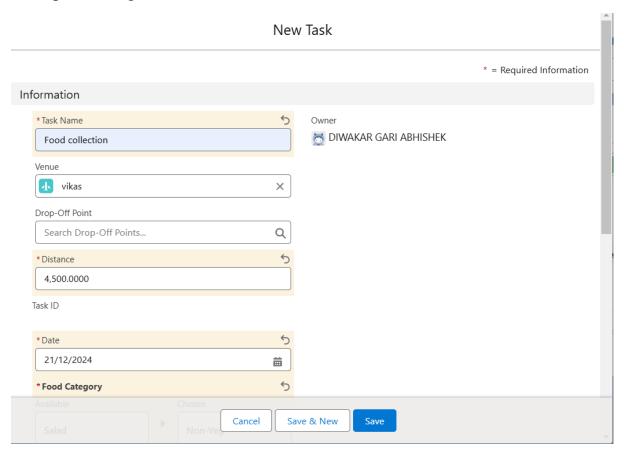


Fig: New Task Details

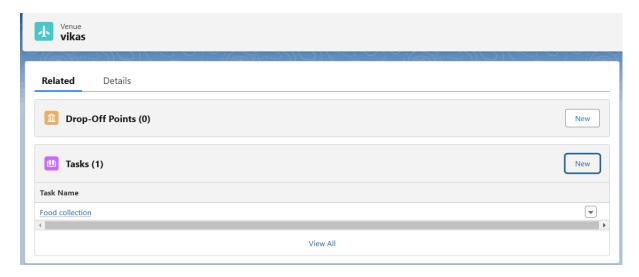


Fig :Task details added at Venue form

# Step 3:Filling New Drop-Of Point details

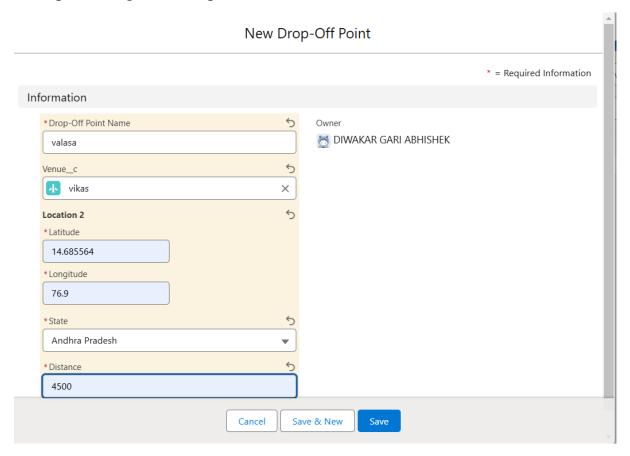


Fig :New Drop-Of Point details

Step 4:Filling New Volunteer details

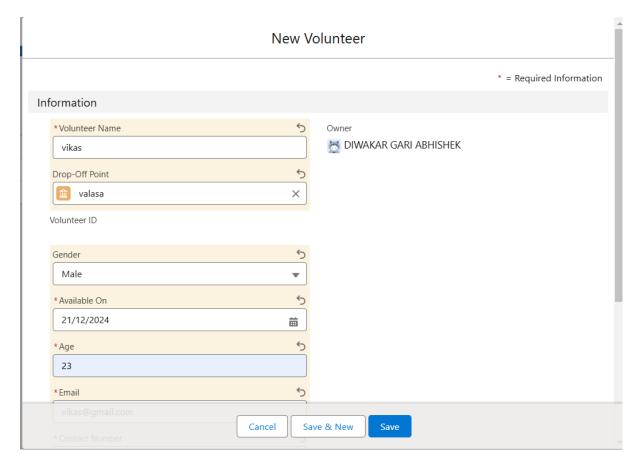


Fig :New Volunteer details

Step 5 : Filling New Execution Details

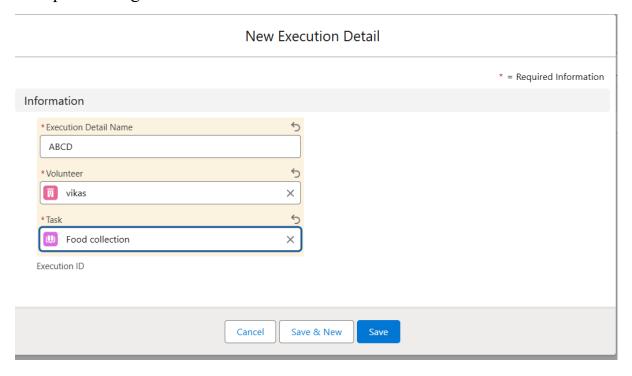


Fig:New Execution Details

Step 6: Updated Home Page after filled all new details

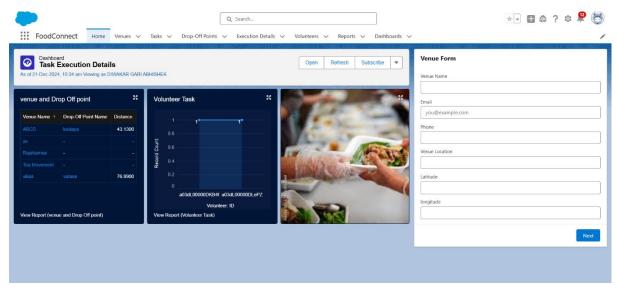


Fig: Updated Home Page

#### **5 Conclusion**

The "FoodConnect" application represents a significant step toward addressing the dual challenges of food wastage and hunger by leveraging the power of the Salesforce platform. This innovative solution not only facilitates the efficient redistribution of surplus food to the underprivileged but also fosters a sense of community and social responsibility among donors.

By streamlining the donation process, providing real-time tracking, and offering insightful data reporting, the platform ensures transparency, efficiency, and accountability. Through its scalability and adaptability, FoodConnect has the potential to expand its reach, helping communities worldwide reduce food waste and support hunger relief efforts.

Ultimately, this project contributes to creating a sustainable and equitable system that aligns with global goals to combat hunger and promote sustainability, driving positive social and environmental impact for the long term.