



KATHIR COLLEGE OF ARTS AND SCIENCE

To Supply Leftover Food To Poor (Developer)

College Code : BRUAH

Team ID : NM2025TMID24393

Team Size : 3

TEAM MEMBERS

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ABSTRACT

Food wastage and hunger are two pressing challenges in modern society. Every day, large amounts of edible food from households, restaurants, events, and institutions are discarded, while millions of people struggle without sufficient meals. This project focuses on the collection and redistribution of safe, leftover food to the poor and needy.

The initiative aims to reduce food wastage, address hunger, and promote social responsibility by creating a structured system for food collection, storage, and distribution. Through the support of volunteers, NGOs, community organizations, and food providers, the program ensures that surplus food reaches the right beneficiaries in a timely and hygienic manner. In addition to addressing immediate hunger needs, the project encourages sustainable practices and raises awareness about food security. Ultimately, this effort seeks to build a compassionate and waste-free society where resources are utilized effectively for the well-being of all.

1.INTRODUCTION

1.1 Project Overview

Food wastage is a critical issue while many people struggle with hunger and malnutrition. Supplying leftover food to the poor is a sustainable initiative aimed at reducing waste, supporting the underprivileged, and building a more compassionate community.

1.2 Purpose

The purpose of this project is to minimize food wastage and combat hunger by creating a systematic approach to collect leftover, safe-to-eat food from restaurants, hotels, events, and households, and redistribute it among the poor and needy.

- ☐ **Ensure that surplus food is utilized effectively.**
- ☐ **Provide nutritious meals to underprivileged communities.**
- ☐ **Promote social responsibility and awareness about food security.**
- ☐ **Build a sustainable model that encourages community participation in eradicating hunger.**

DEVELOPMENT PHASE

Creating Developer Account:

By using this URL - <https://developer.salesforce.com>

Sign up for your Developer Edition

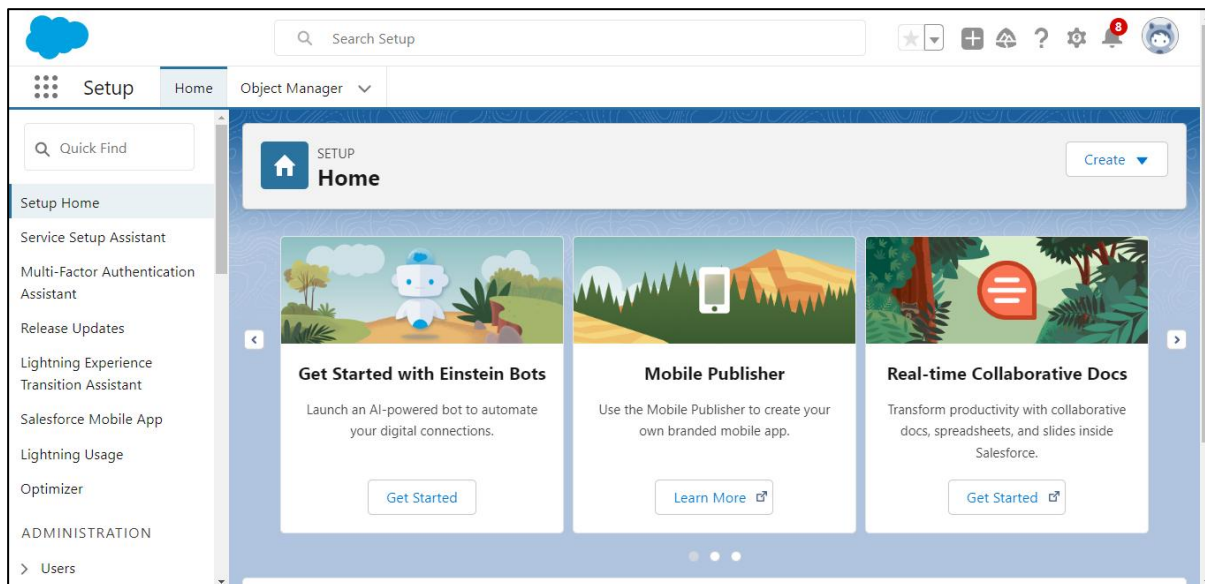
A free Salesforce Platform environment with
Agentforce and Data Cloud

First name	Last name
<input style="width: 90%;" type="text" value="sakthi"/>	<input style="width: 90%;" type="text" value="murugan"/>
Job title	Work email
<input style="width: 90%;" type="text" value="developer"/>	<input style="width: 90%;" type="text" value="sakthimurugn200"/>
Company	Country/Region
<input style="width: 90%;" type="text" value="kathir college of a"/>	<input style="width: 90%;" type="text" value="India"/>

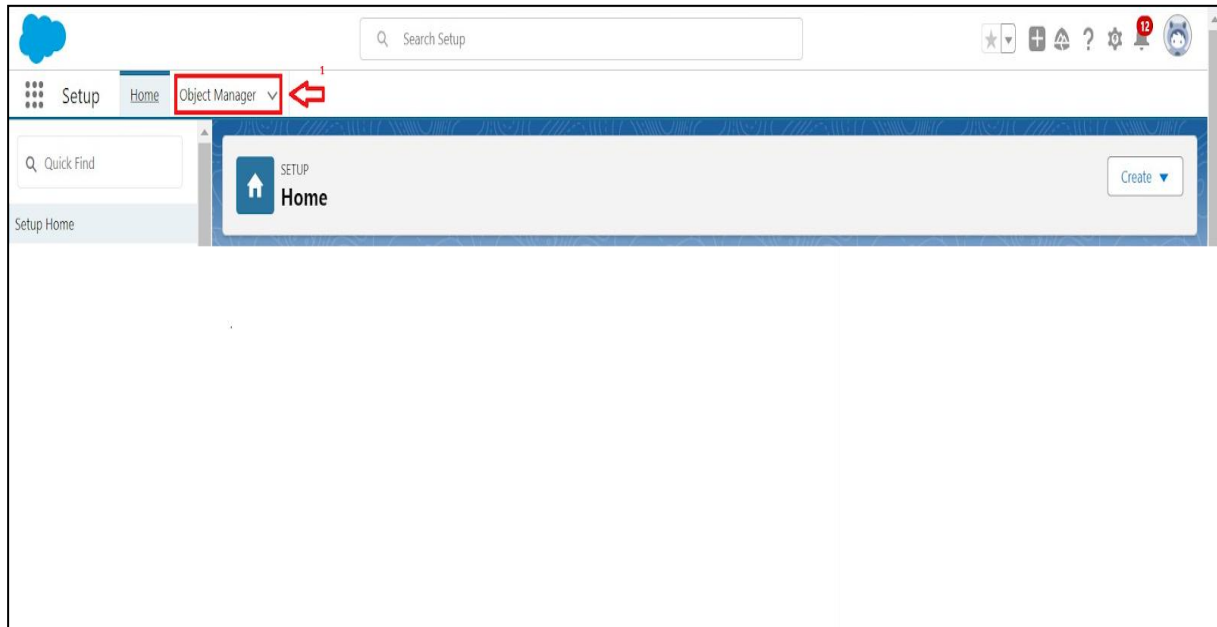
Your org may be provisioned on or migrated to Hyperforce, Salesforce's public cloud infrastructure.

☒ I agree to the [Main Services Agreement – Developer Services](#) and [Salesforce Program Agreement](#). I acknowledge, as described in the Developer Documentation: (1) the Developer Edition includes autonomous and other generative AI features;

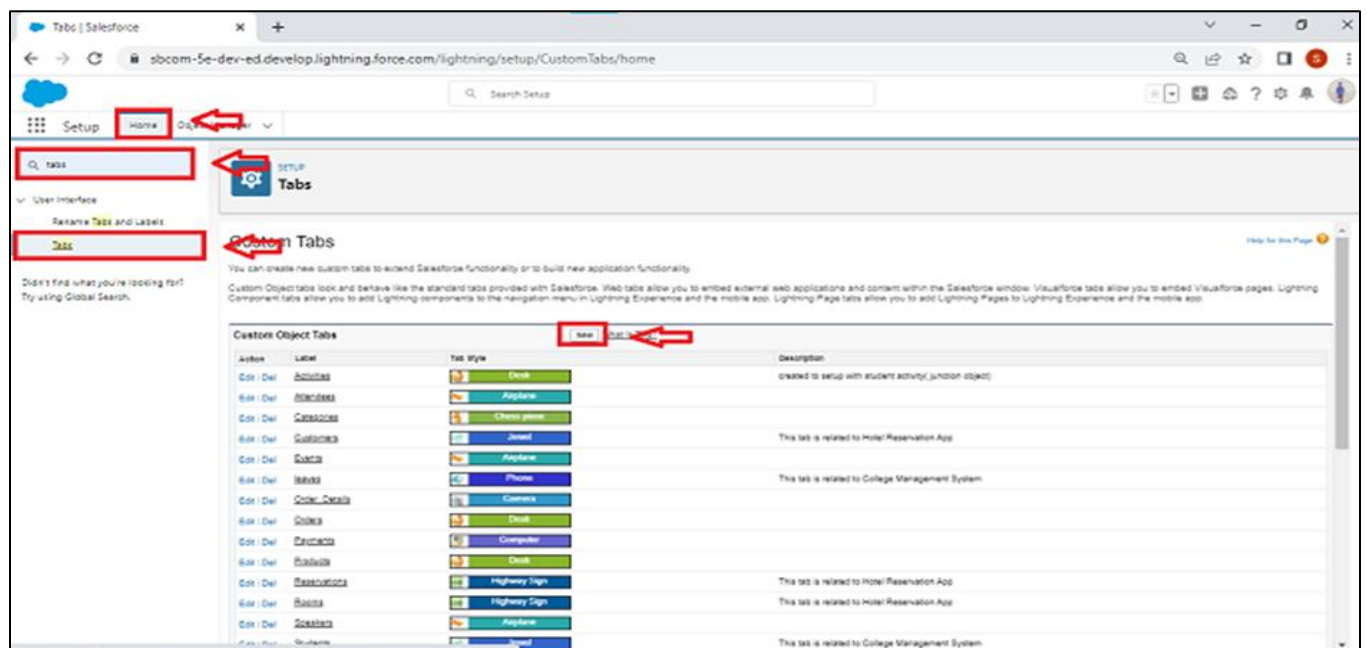
- **Created objects: Customer, Item , Customer Order.**



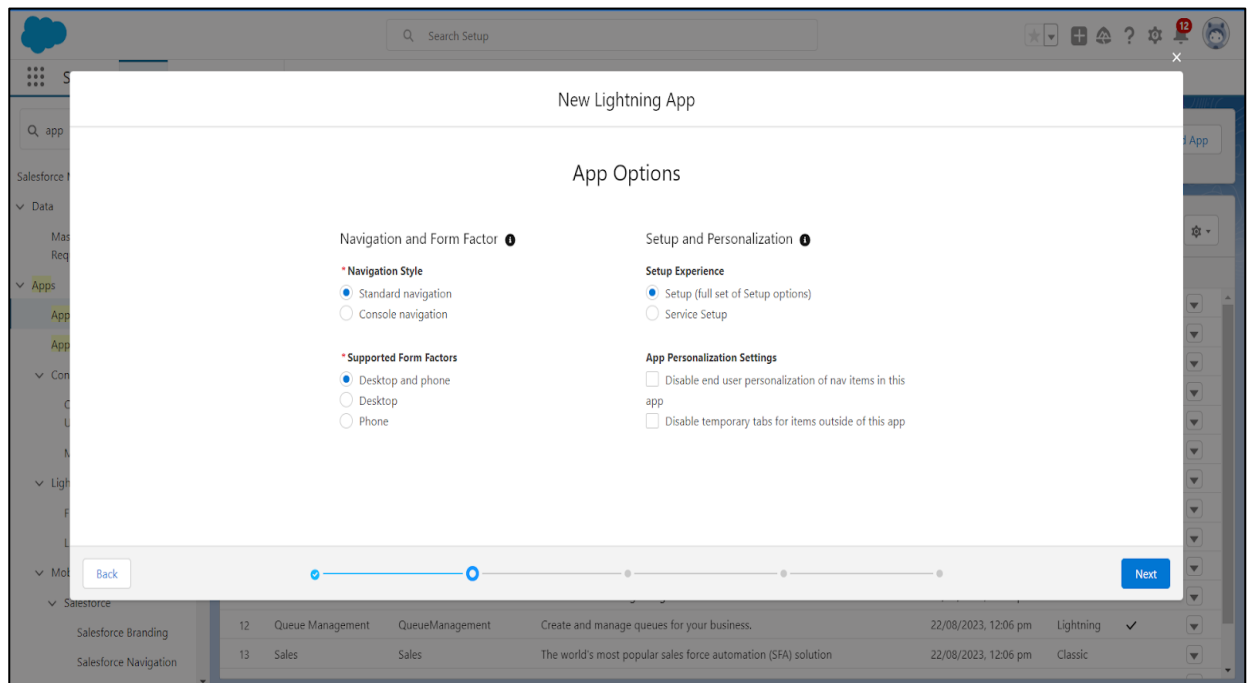
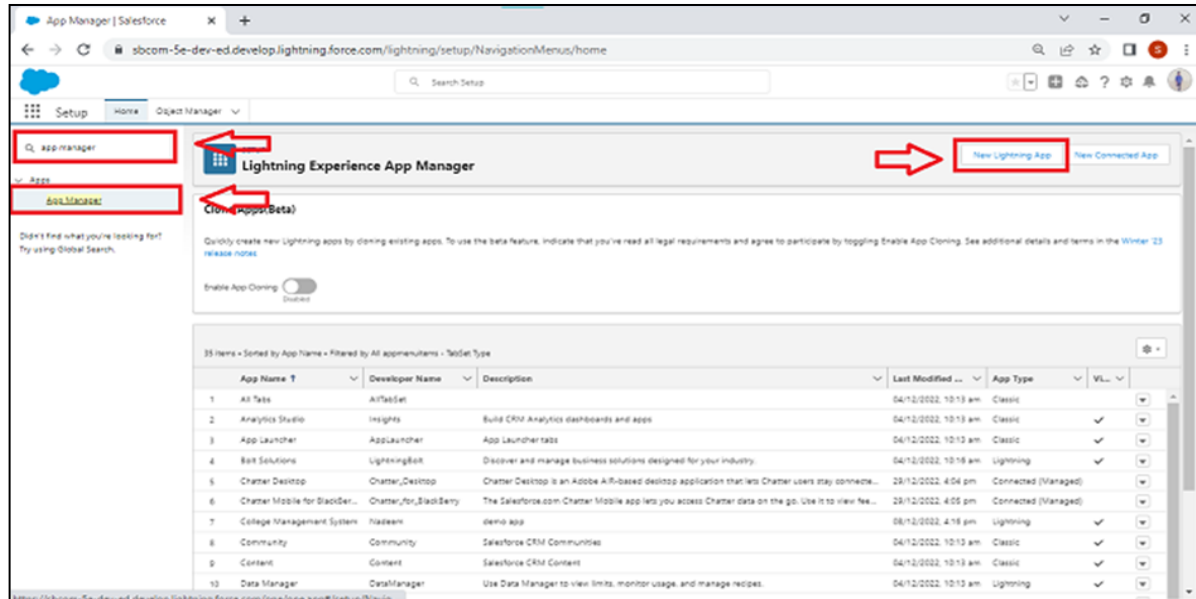
Object



• Creating a Custom Tab



- **Developed Lightning App with relevant tabs**



Available Items

↺ Create ▾

Type to filter list...

Accounts

All Sites

Alternative Payment Methods

Analytics

App Launcher

Appointment Categories

Appointment Invitations

Approval Requests

Asset Action Sources

Asset Actions

▶

◀

Selected Items

Home

Venues

Tasks

Drop-Off points

Execution Details

Volunteers

Reports

Dashboards

▲

▼

New Lightning App

User Profiles

Choose the user profiles that can access this app.

Available Profiles

System administrator

▶

Selected Profiles

System Administrator

◀

▶

Save & Finish

Creating Lookup Relationship:

SETUP > OBJECT MANAGER
Volunteer

Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions

☐ Roll-Up Summary
A read-only field that displays the sum, minimum, or maximum value of a field in a related list or the record count of all records listed in a related list.

☒ **Lookup Relationship**
Creates a relationship that links this object to another object. The relationship field allows users to click on a lookup icon to select a value from a popup list. The other object is the source of the values in the list.

☐ Master-Detail Relationship
Creates a special type of parent-child relationship between this object (the child, or "detail") and another object (the parent, or "master") where:
• The relationship field is required on all detail records.
• The ownership and sharing of a detail record are determined by the master record.
• When a user deletes the master record, all detail records are deleted.
• You can create rollup summary fields on the master record to summarize the detail records.
The relationship field allows users to click on a lookup icon to select a value from a popup list. The master object is the source of the values in the list.

☐ External Lookup Relationship
Creates a relationship that links this object to an external object whose data is stored outside the Salesforce org.

Step 2. Choose the related object Step 2

Previous Next Cancel

Select the other object to which this object is related.

Related To **Drop-Off point**

Previous **Next** Cancel

Formula Options

Formula Return Type

Number

Decimal Places

4

Enter your formula and click Check Syntax to check for errors. Click the Advanced Formula subtab to use additional fields, operators, and functions.
Example: Fahrenheit = 1.8 * Celsius_c + 32 [More Examples...](#)

Simple Formula

Advanced Formula

Insert Field

Insert Operator

distance calucation (Number) =

DISTANCE(Location_2__c , Venue__r.Location__c , 'km')

To create a Flow:

New Flow

Core

All + Templates

Screen Flow

Guides users through a business process that's launched from Lightning pages, Experience Cloud sites, quick actions, and ...

Record-Triggered Flow

Launches when a record is created, updated, or deleted. This autolaunched flow runs in the background.

Schedule-Triggered Flow

Launches at a specified time and frequency for each record in a batch. This autolaunched flow runs in the background.

Platform Event—Triggered Flow

Launches when a platform event message is received. This autolaunched flow runs in the background.

Autolaunched Flow (No Trigger)

Launches when invoked by Apex, processes, REST API, and more. This autolaunched flow runs in the background.

Record-Triggered Orchestration

Launches when a record is created or updated. An orchestration lets you create a multi-step, multi-user process.

Create

Edit Screen

Components Fields

Search components...

Input (51)

- Address
- Call Script
- Cancel Appointment
- ☒ Checkbox
- Checkbox Group
- Choice Lookup

Get more on the AppExchange

NGO Flow

Text

Venue Name

Email

you@example.com

Phone

Venue Location

← Text

Label

Venue Name

* API Name

Venue_Name

☐ Require

Default Value

Enter value or search resources...

> Set Component Visibility

> Validate Input

Cancel Done

Create a Record of This Object

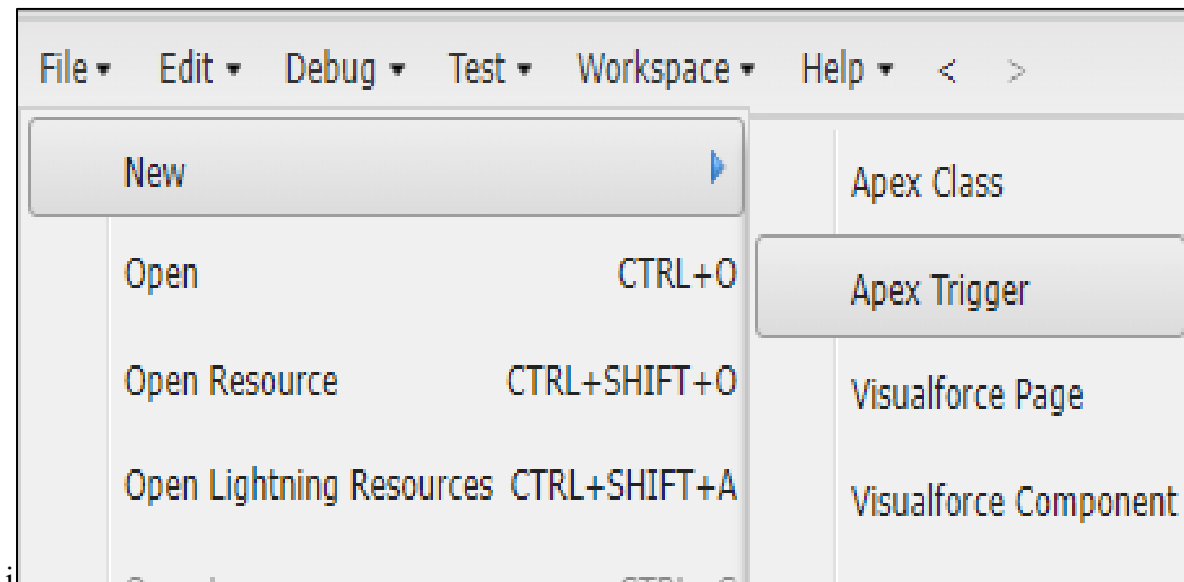
* Object

Venue

Set Field Values for the Venue

Field	Contact_Email__c	←	Value	Aa Contact_Email > Value ×	<input type="text"/>	<input type="button" value="X"/>
Field	Contact_Phone__c	←	Value	Aa Contact_Phone > Value ×	<input type="text"/>	<input type="button" value="X"/>
Field	Name	←	Value	Aa Venue_Name ×	<input type="text"/>	<input type="button" value="X"/>
Field	Venue_Location__c	←	Value	Aa location ×	<input type="text"/>	<input type="button" value="X"/>

To create a Trigger:

A screenshot of the 'New Apex Trigger' dialog box. It has a title bar with a close button. Inside, there are two labels: 'Name:' and 'sObject:'. Each label is followed by a text input field. The 'sObject' field has a dropdown arrow on its right side. At the bottom right of the dialog is a 'Submit' button.

creation of users:

User1:

General Information

First Name

Iksha Foundation

Last Name

Iksha_Foundation

Alias

iksh

Email

bhargavipaila1023@gmail.co

Username

ikshafoundation@sb.com

Nickname

User1711437164226559933

Title

Company

Department

Division

Role

<None Specified>

User License

Salesforce Platform

Profile

NGOs Profile

Active

☒

Marketing User

☐

Offline User

☐

Knowledge User

☐

Flow User

☐

Service Cloud User

☐

Site.com Contributor User

☐

<input type="checkbox"/>	Edit Login	<u>Iksha_Foundation, Iksha Foundation</u>	<u>iksh</u>	<u>ikshafoundation@sb.com</u>	<input checked="" type="checkbox"/>	<u>NGOs Profile</u>
<input type="checkbox"/>	Edit Login	<u>NSS, NSS</u>	<u>nnss</u>	<u>nss@sb.com</u>	<input checked="" type="checkbox"/>	<u>NGOs Profile</u>
<input type="checkbox"/>	Edit Login	<u>Street_Cause, Street Cause</u>	<u>ssre</u>	<u>streetcause@sb.com</u>	<input checked="" type="checkbox"/>	<u>NGOs Profile</u>

To Create a Public Group :

New

Action	Label ↑	Group Name	Created By	Created Date
Edit Del	lksha	lksha	Bhargavi, Paila	26/03/2024, 2:27 pm
Edit Del	NSS	NSS	Bhargavi, Paila	26/03/2024, 2:27 pm
Edit Del	Street Cause	Street Cause	Bhargavi, Paila	26/03/2024, 2:26 pm

Create Report Types:

Outline

Filters 2

Groups

GROUP ROWS

Add group...

Volunteer Name

GROUP COLUMNS

Add group...

Columns

Add column...

Venue Name

Drop-Off point Name

Distance

Previewing a limited number of records. Run the report to see everything.

Volunteer Name ↑	Venue Name ↑	Drop-Off point Name	Distance
- (4)	La Royale Banquet Hall.	Shapur	5,1161
	La Royale Banquet Hall.	Jeedimetla	6,902.9995
	Paradise Garden Function Hall	Suraram Village	28,2332
	Ujwala Grand	-	-
Subtotal			6,936.3488
Total (4)			6,936.3488

REPORT Volunteer Task Volunteers with Execution Details and Tasks

Previewing a limited number of records. Run the report to see everything.

Update Preview Automatically

Volunteer ID	Volunteer: Volunteer Name	Task: Task Name	Execution Detail: Execution Detail Name	Volunteer: Owner Name	Task: Date	Task: Rating
2 (1)	Charan	Task 2	Execution 2	Iksha Foundation Iksha_Foundation	28/03/2024	5
Subtotal						
4 (1)	Bhavika	Task 1	Execution 1	Iksha Foundation Iksha_Foundation	28/03/2024	4
Subtotal						
Total (2)						

Columns: Volunteer: Volunteer Name, Task: Task Name, Execution Detail: Execution Detail Name, Volunteer: Owner Name, Task: Date, Task: Rating

Row Counts: Detail Rows, Subtotals, Grand Total

To create a Dashboards:

Report

venue and Drop Off point

☐ Use chart settings from report

Display As

Groups

Add group...

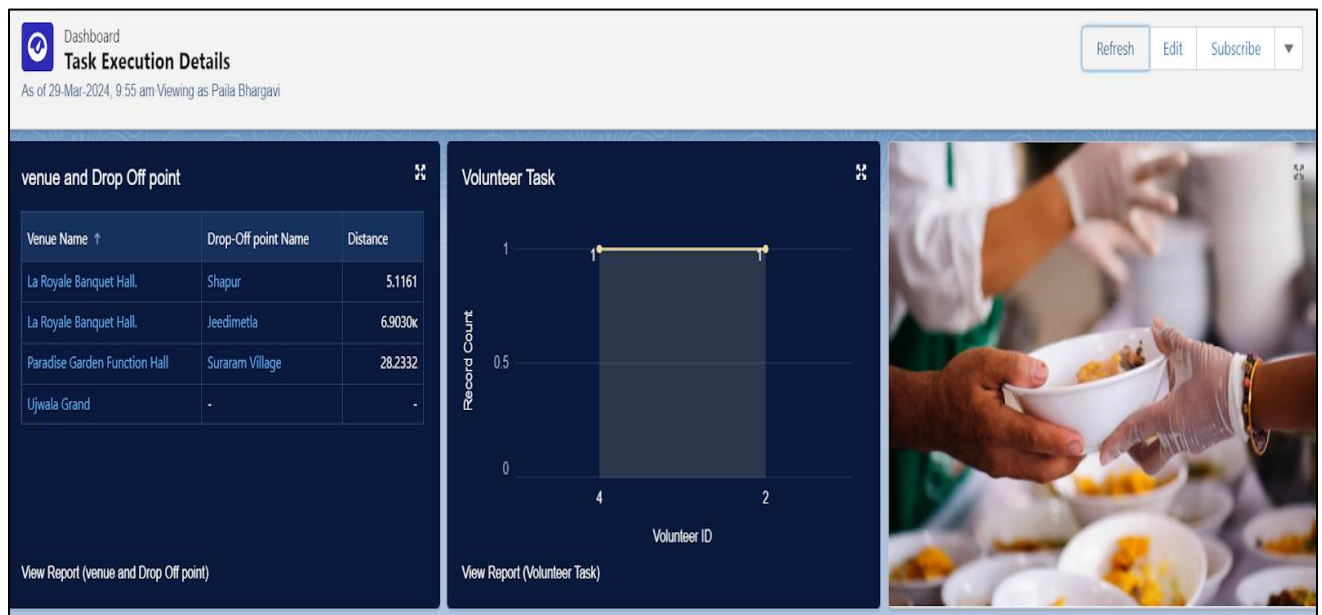
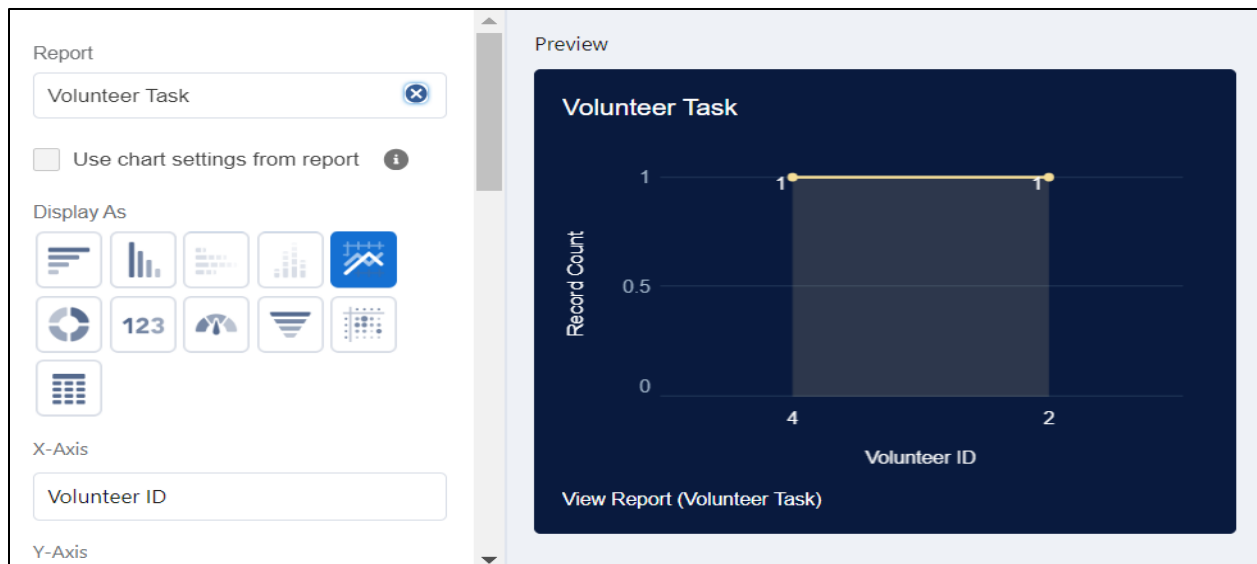
Columns

Preview

venue and Drop Off point

Venue Name	Drop-Off point Name	Distance
La Royale Banquet Hall.	Shapur	5.1161
La Royale Banquet Hall.	Jeedimetla	6.9030κ
Paradise Garden Function Hall	Suraram Village	28.2332
Ujwala Grand	-	-

View Report (venue and Drop Off point)



Sharing Rules:

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

To create a Home Page:

Dashboard

Task Execution Details

As of 29-Mar-2024, 9:55 am Viewing as Palla Bhargavi

Open

Refresh

Subscribe

venue and Drop Off point

Venue Name ↑	Drop-Off poi...	Dis...
La Royale Banquet Hall.	Shapur	5.116
La Royale Banquet Hall.	Jeedimetla	6.903
Paradise Garden Function Hall	Suraram Village	28.23
Ujwala Grand	-	-

View Report (venue and Drop Off point)

Volunteer Task

Volunteer ID	Record Count
4	1
2	1

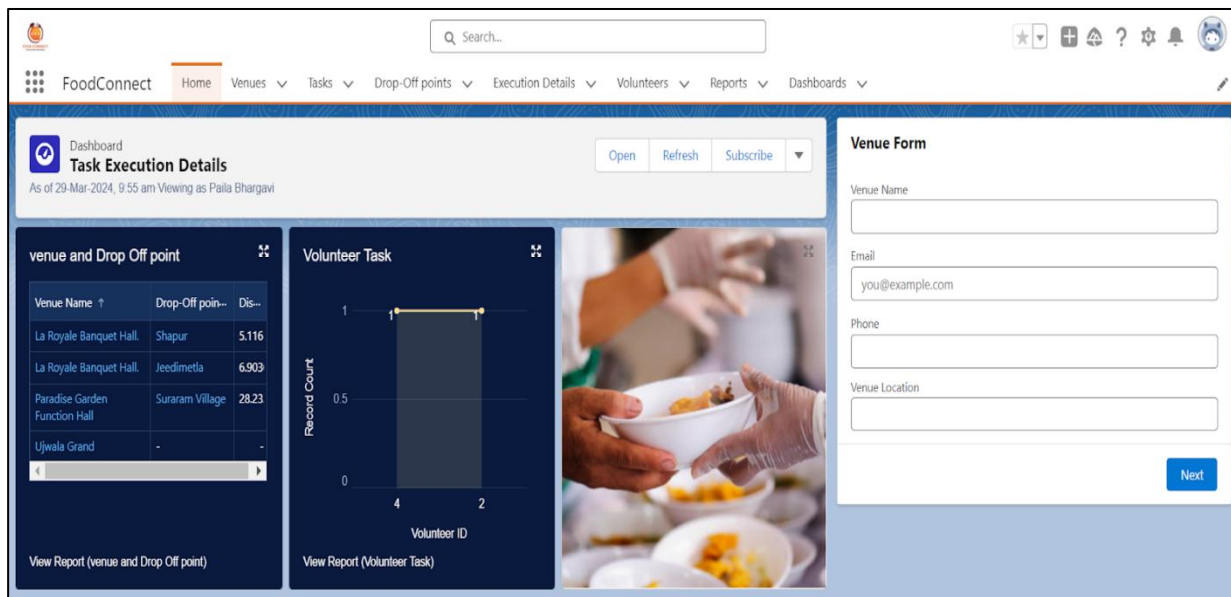
View Report (Volunteer Task)

Flow Component: Venue Form

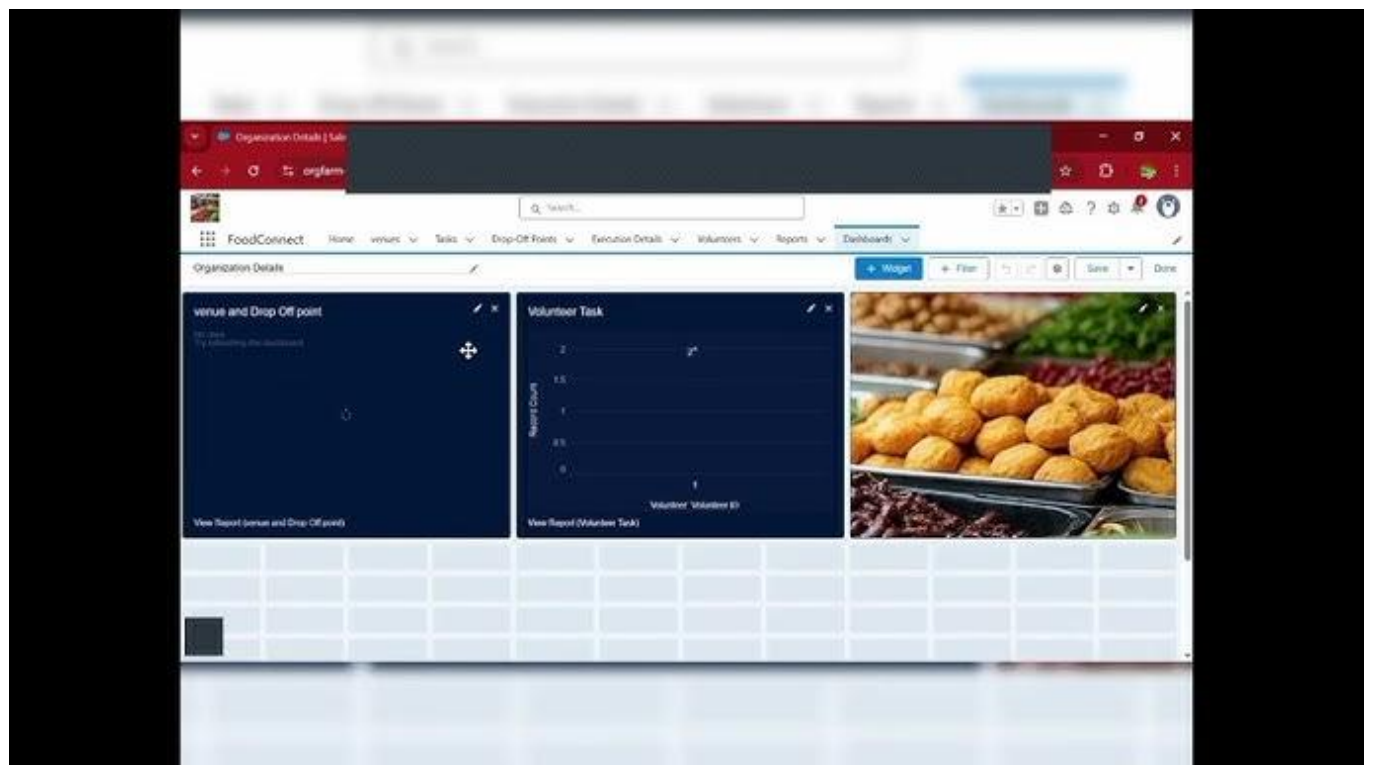
This is a placeholder. Flows don't run in the canvas.

Add Component(s) Here

Add Component(s) Here



RESULT:



CONCLUSION

This project not only addresses hunger and malnutrition but also contributes to sustainable development by reducing food wastage. With collective efforts, we can ensure that “No food goes to waste, and no person goes hungry.”

APPENDIX

- **Source Code:** Provided in Apex Classes and Triggers

CODE:

```
# Import necessary libraries

from flask import Flask,
render_template, request, redirect,
url_for

from flask_sqlalchemy import
SQLAlchemy

app = Flask(__name__)
```

```
app.config["SQLALCHEMY_DATABASE_URI"] = "sqlite:///food.db"

db = SQLAlchemy(app)
```

```
# Define models
```

```
class User(db.Model):

    id = db.Column(db.Integer,
primary_key=True)

    name = db.Column(db.String(100),
nullable=False)

    email = db.Column(db.String(100),
nullable=False, unique=True)
```

```
class Food(db.Model):

    id = db.Column(db.Integer,
primary_key=True)

    name = db.Column(db.String(100),
nullable=False)

    quantity = db.Column(db.Integer,
nullable=False)

    donor_id = db.Column(db.Integer,
db.ForeignKey("user.id"))
```

```
# Define routes
```

```
@app.route("/")
```

```
def index():
```

```
    return render_template("index.html")
```

```
@app.route("/register",
```

```
methods=["GET", "POST"])
```

```
def register():
```

```
    if request.method == "POST":
```

```
        user =
```

```
User(name=request.form["name"],
```

```
email=request.form["email"])
```

```
    db.session.add(user)
```

```
    db.session.commit()
```

```
    return redirect(url_for("login"))
```

```
    return
```

```
render_template("register.html")
```

```
@app.route("/login", methods=["GET",
```

```
"POST"])
```

```
def login():
```

```
    if request.method == "POST":
```

```
        user =
```

```
User.query.filter_by(email=request.form[
```

```
"email"]).first()
```

```
        if user:

            # Login logic

            pass

        return render_template("login.html")


@app.route("/food/list")
def food_list():

    foods = Food.query.all()

    return

    render_template("food_list.html",
foods=foods)


@app.route("/food/request/<int:food_id>
")
def food_request(food_id):

    food = Food.query.get(food_id)

    # Request logic

    pass


if __name__ == "__main__":

    app.run(debug=True)
```