

PROJECT TITLE – LEFT OVER FOOD MANAGEMENT SYSTEM

College Name: Puratchi Thalaivi Amma Government Arts and
Science
College.

College Code: bruaq

TEAM ID: NM2025TMID21790

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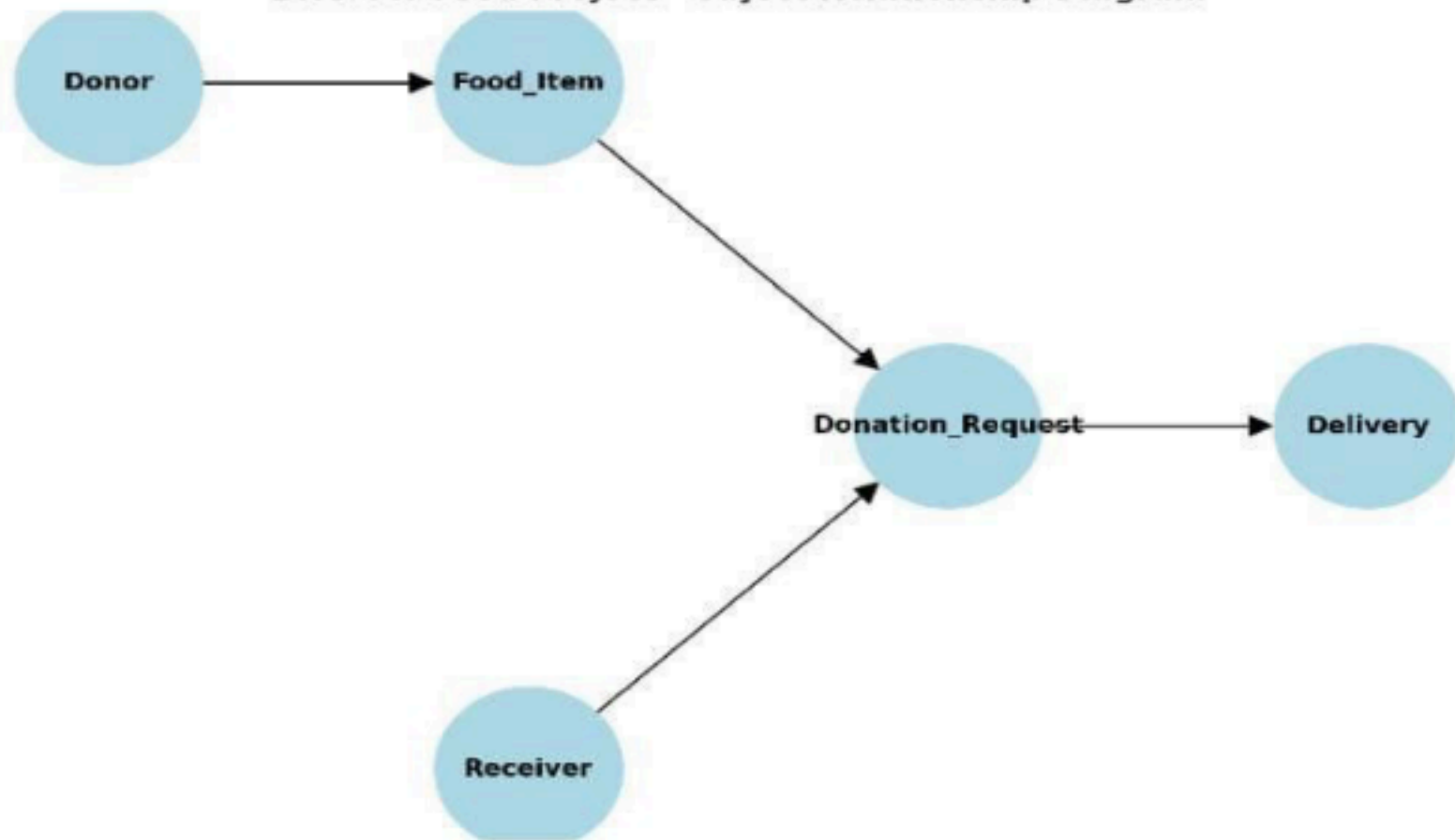
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I.INTRODUCTION

I.1 Project Overview

Salesforce app to manage leftover food donations. Connects Donors(Hotels.Canteens.Events) with Receivers (NGOs.Needy people).Automates food request.approval.tracking and delivery.

Leftover Food Project - Object Relationship Diagram



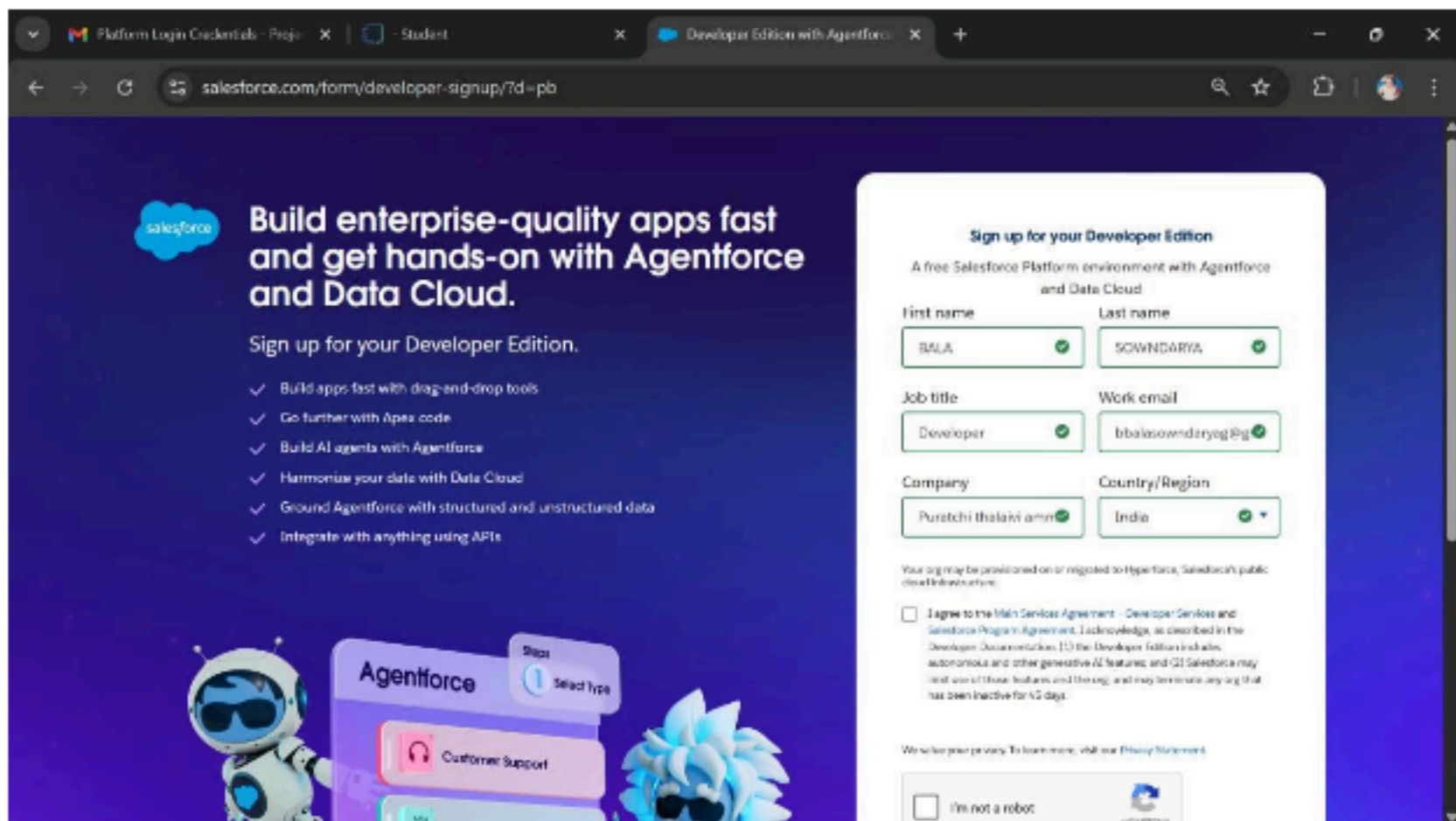
I.2 Purpose

Reduce food wastage. Provides food to needy on time. Ensure transparency & efficiency using Salesforce automation(Flows. Triggers. Emails).

2.DEVELOPMENT PHASE

Creating Developer Account:

By using this URL - <https://www.salesforce.com/form/developer-signup/?d=pb>



The screenshot shows the Salesforce Developer Edition signup page. The page has a dark blue background with the Salesforce logo and the text "Build enterprise-quality apps fast and get hands-on with Agentforce and Data Cloud." Below this, it says "Sign up for your Developer Edition." and lists several benefits: "Build apps fast with drag-and-drop tools", "Go further with Apex code", "Build AI agents with Agentforce", "Harmonize your data with Data Cloud", "Ground Agentforce with structured and unstructured data", and "Integrate with anything using APIs".

On the right side, there is a white form titled "Sign up for your Developer Edition" with the subtitle "A free Salesforce Platform environment with Agentforce and Data Cloud." The form contains the following fields:

- First name: BALA
- Last name: SOWNDARYA
- Job title: Developer
- Work email: bbalesowndaryog@gmail.com
- Company: Puratchi thalaim amma
- Country/Region: India

Below the form, there is a checkbox for "I agree to the Main Services Agreement - Developer Services and Salesforce Program Agreement." and a checkbox for "I'm not a robot".

•Created objects: Donar, Food_Item, Receiver, Donation_Request, Delivery.

Platform Login Credentials - Pro x Student x Home | Salesforce x Venue | Salesforce x

orgfarm-4c09704374-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01lgL000001ngGr/Details/view

Search Setup

Setup Home Object Manager

Setup > OBJECT MANAGER

Venue

Details Edit Delete

Description

API Name	Venue__c
Custom	<input checked="" type="checkbox"/>
Singular Label	Venue
Plural Label	Venues

Enable Reports	<input checked="" type="checkbox"/>
Track Activities	<input checked="" type="checkbox"/>
Track Field History	<input checked="" type="checkbox"/>
Deployment Status	Deployed
Help Settings	Standard salesforce.com Help Window

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

List View Button Layout

Restriction Rules

Scoping Rules

Object Access

Triggers

Related Items

https://orgfarm-4c09704374-dev-ed.develop.lightning.force.com/nr/nr-apps/setup/ObjectManager/01lgL000001ngGr/FieldsAndRelationships/view

Platform Login Credentials - Pro x Student x Home | Salesforce x Drop-Off Point | Salesforce x

orgfarm-4c09704374-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01lgL000001ngS9/Details/view

Search Setup

Setup Home Object Manager

Setup > OBJECT MANAGER

Drop-Off Point

Details Edit Delete

Description

API Name	Drop_Off_Point__c
Custom	<input checked="" type="checkbox"/>
Singular Label	Drop-Off Point
Plural Label	Drop-Off Points

Enable Reports	<input checked="" type="checkbox"/>
Track Activities	<input checked="" type="checkbox"/>
Track Field History	<input checked="" type="checkbox"/>
Deployment Status	Deployed
Help Settings	Standard salesforce.com Help Window

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

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List View Button Layout

Restriction Rules

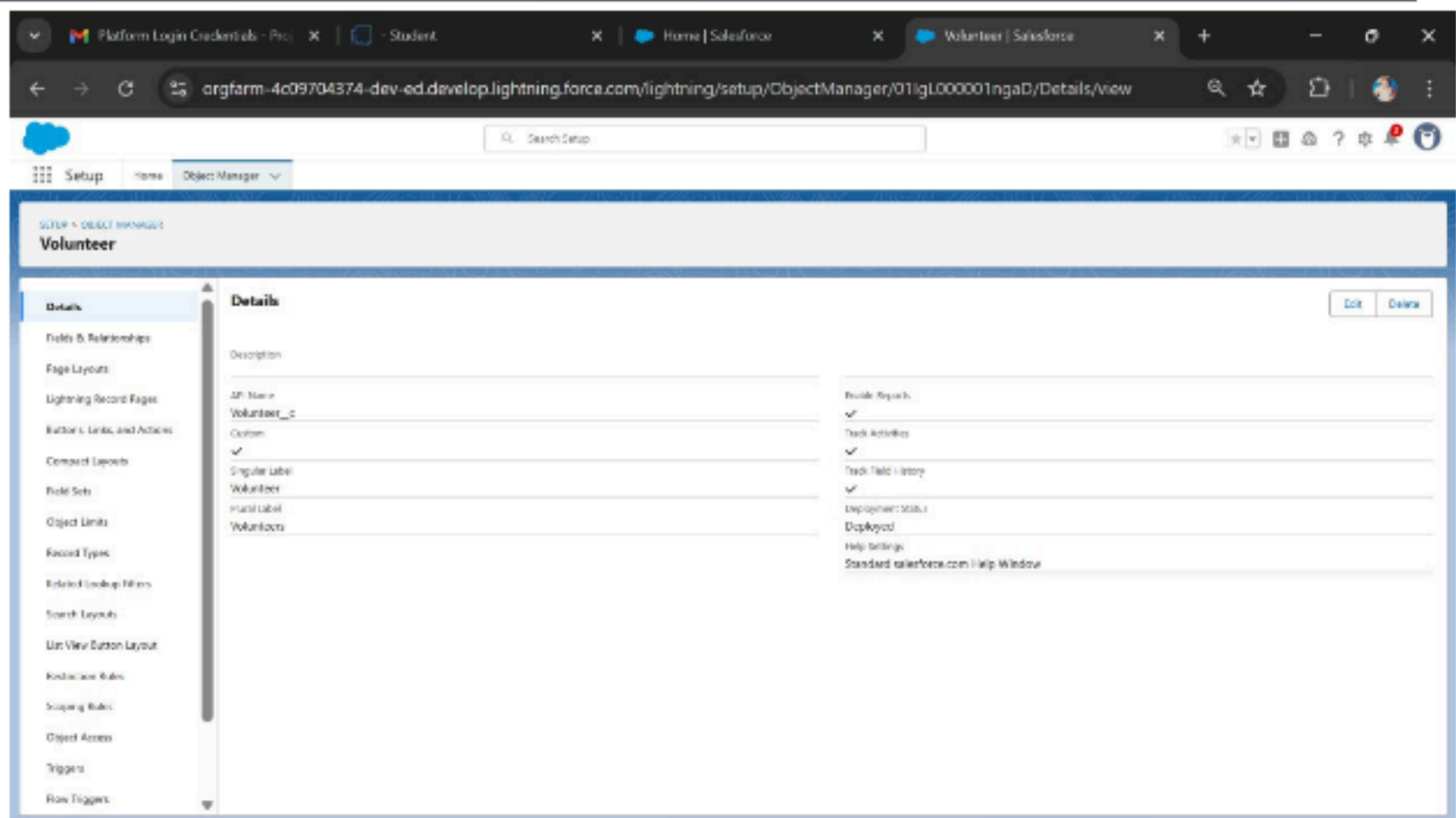
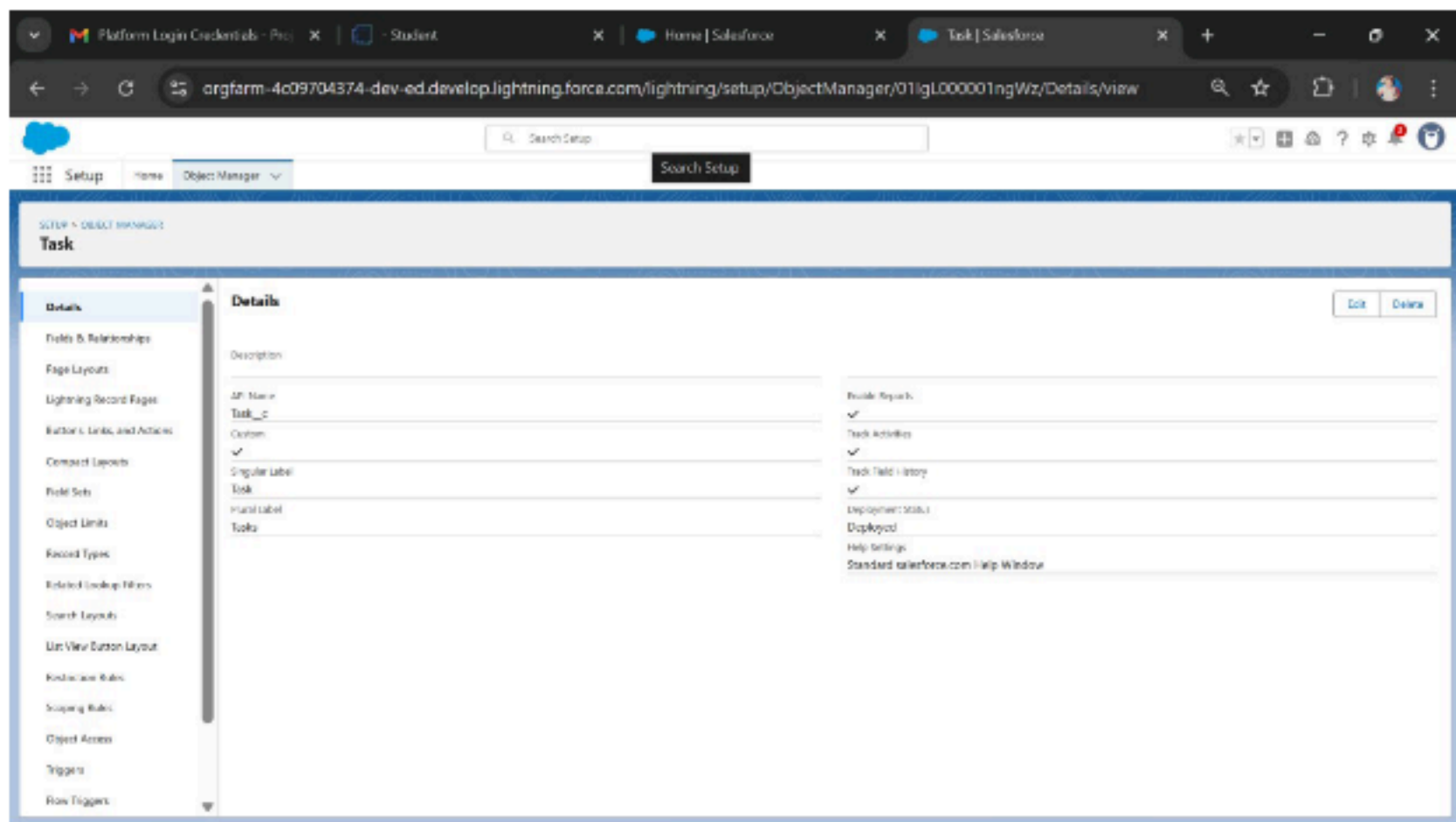
Scoping Rules

Object Access

Triggers

Related Items

https://orgfarm-4c09704374-dev-ed.develop.lightning.force.com/nr/nr-apps/setup/ObjectManager/01lgL000001ngS9/FieldsAndRelationships/view



•Configured fields and relationships.

Platform Login Credentials - Pro x Student x Home | Salesforce x Venue | Salesforce x

orgfarm-4c09704374-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01lgL000001ngGr/FieldsAndRelation...

Search Setup

Setup Home Object Manager

VENUE > OBJECT MANAGER

Venue

Fields & Relationships
9 items, sorted by Field Label

Check Field New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Contact Email	Contact_Email_Lc	Email		
Contact Phone	Contact_Phone_Lc	Phone		
Created By	CreatedBy	Lookup(User)		
Last Modified By	LastModifiedBy	Lookup(User)		
Location	Location_Lc	Geolocation		
Owner	OwnerId	Lookup(UserGroup)		✓
Venue Location	Venue_Location_Lc	Long Text Area (270k)		
Venue Name	Name	Text (80)		✓

Fields & Relationships

- Page Layouts
- Lightning Record Pages
- Buttons, Links, and Actions
- Compact Layouts
- Field Sets
- Object Limits
- Record Types
- Related Lookup Filters
- Search Layouts
- List View Button Layout
- Restriction Rules
- Scoping Rules
- Object Access
- Triggers
- Flow Triggers

Platform Login Credentials - Pro x Student x Home | Salesforce x Drop-Off Point | Salesforce x

orgfarm-4c09704374-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01lgL000001ngS9/FieldsAndRelation...

Search Setup

Setup Home Object Manager

Drop-Off Point

Fields & Relationships
9 items, sorted by Field Label

Check Field New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedBy	Lookup(User)		
Distance	Distance_Lc	Number (12, 2)		
distance calculation	distance calculation_Lc	Formula (Number)		
Drop-Off Point Name	Name	Text (80)		✓
Last Modified By	LastModifiedBy	Lookup(User)		
Location 2	Location2_Lc	Geolocation		
Owner	OwnerId	Lookup(User Group)		✓
State	State_Lc	Picklist		
VENUE_Lc	Venue_Lc	Lookup(Venue)		✓

Fields & Relationships

- Page Layouts
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- Object Limits
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- List View Button Layout
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- Scoping Rules
- Object Access
- Triggers
- Flow Triggers

Platform Login Credentials - Proj x Student x Home | Salesforce x Task | Salesforce x

orgfarm-4c09704374-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01lgL000001ngWz/FieldsAndRelatio...

Search Setup

Setup Home Object Manager

Task

Fields & Relationships
14 items, sorted by Field Label

Check Field New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Date	Date__c	Date		
Distance	Distance__c	Number(14, 4)		
Drop-Off Point	Drop_Off_Point__c	Lookup(Drop-Off Point)		✓
Feedback	Feedback__c	Long Text Area (275k)		
Food Category	Food_Category__c	Picklist (Multi-Select)		
Last Modified By	LastModifiedById	Lookup(User)		
Name of the Person	Name_of_the_Person__c	Text(14)		
Number of People Served	Number_of_People_Served__c	Number(16, 0)		
Owner	OwnerId	Lookup(User Group)		✓
Phone	Phone__c	Phone		
Rating	Rating__c	Picklist		

Platform Login Credentials - Proj x Student x Home | Salesforce x Volunteer | Salesforce x

orgfarm-4c09704374-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01lgL000001ngaD/FieldsAndRelatio...

Search Setup

Setup Home Object Manager

Volunteer

Fields & Relationships
14 items, sorted by Field Label

Check Field New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Long Text Area (275k)		
Address	Address__c	Long Text Area (275k)		
Age	Age__c	Number(16, 0)		
Available On	Available_On__c	Date		
Contact Number	Contact_Number__c	Number(16, 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)		

•Developed Lightning App with relevant tabs

Platform Login Credentials - Proj...StudentHome | SalesforceExecution Detail | Salesforce

orgfarm-4c09704374-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01lgL0000001ngdR/FieldsAndRelation...

Search Setup

SetupHomeObject Manager

Setup > OBJECT MANAGER

Execution Detail

DetailsFields & Relationships5 items, Sorted by Field LabelCheck FieldNewDeleted FieldsField DependenciesSet History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(Many)		
Execution Detail Name	Name	Text(30)		✓
Last Modified By	LastModifiedById	Lookup(Many)		
Link	LinkUrl	Master (244,4) Link		✓
Volunteer	Volunteer__c	Master Detail (Volunteer)		✓

Fields & Relationships5 items, Sorted by Field Label

DetailsFields & Relationships5 items, Sorted by Field LabelCheck FieldNewDeleted FieldsField DependenciesSet History Tracking

Fields & Relationships5 items, Sorted by Field Label

DetailsFields & Relationships5 items, Sorted by Field LabelCheck FieldNewDeleted FieldsField DependenciesSet History Tracking

Platform Login Credentials - Proj...StudentHome | SalesforceFoodConnect - Lightning App B...

orgfarm-4c09704374-dev-ed.develop.lightning.force.com/visualEditor/appBuilder.app?id=02ugL0000005ucVxQA1&retUrl=https%...

Lightning App BuilderApp SettingsPagesFoodConnectHelp

App Settings

App Details & Branding

App OptionsUtility Items (Desktop Only)Navigation ItemsUser Profiles

Give your Lightning app a name and description. Upload an image and choose the highlight color for its navigation bar.

App Details

App Branding

App Theme Options

App Launcher Preview

App Name

FoodConnect

Developer Name

FoodConnect

Description

Food is delicious...

Image

Upload

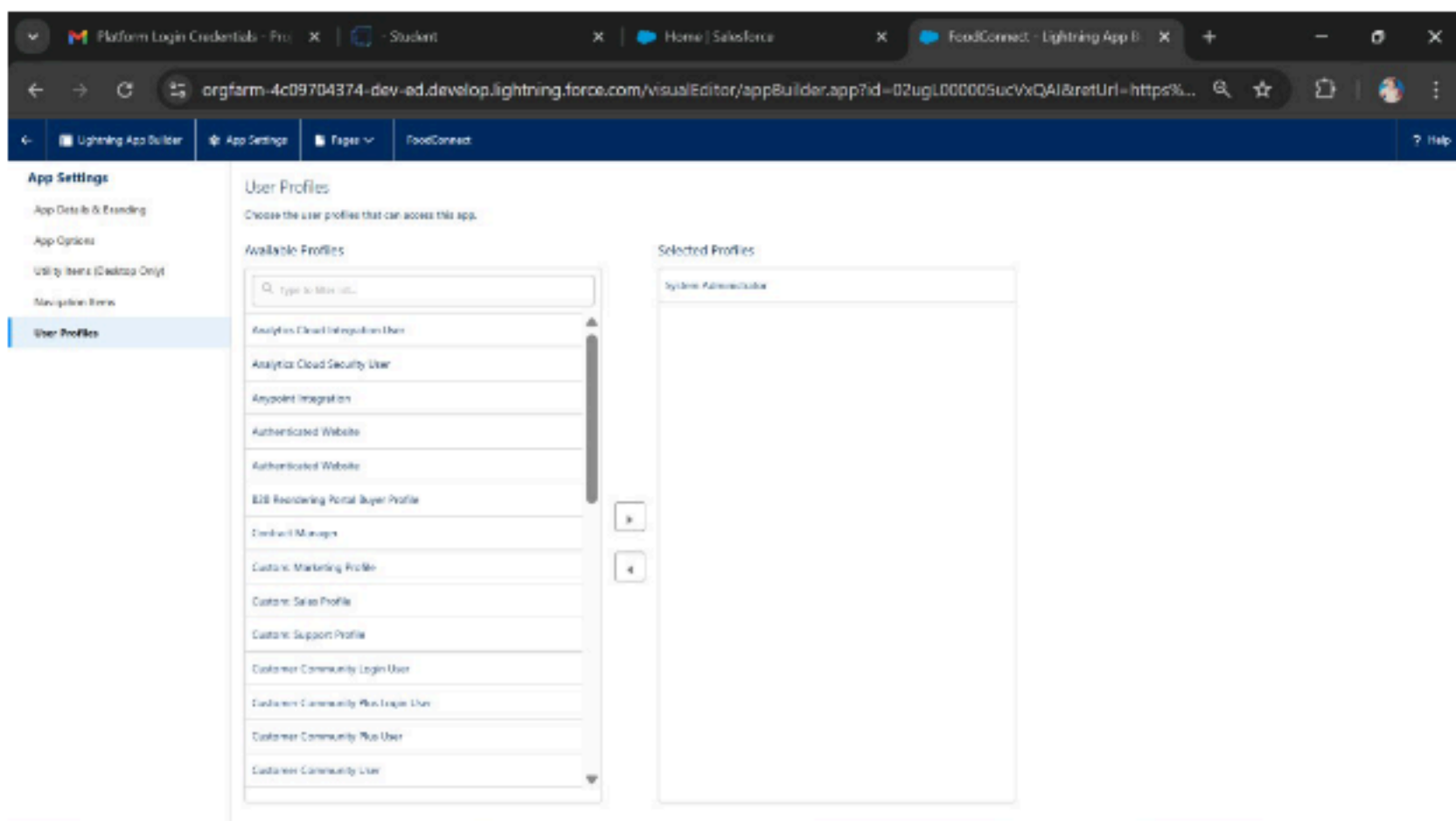
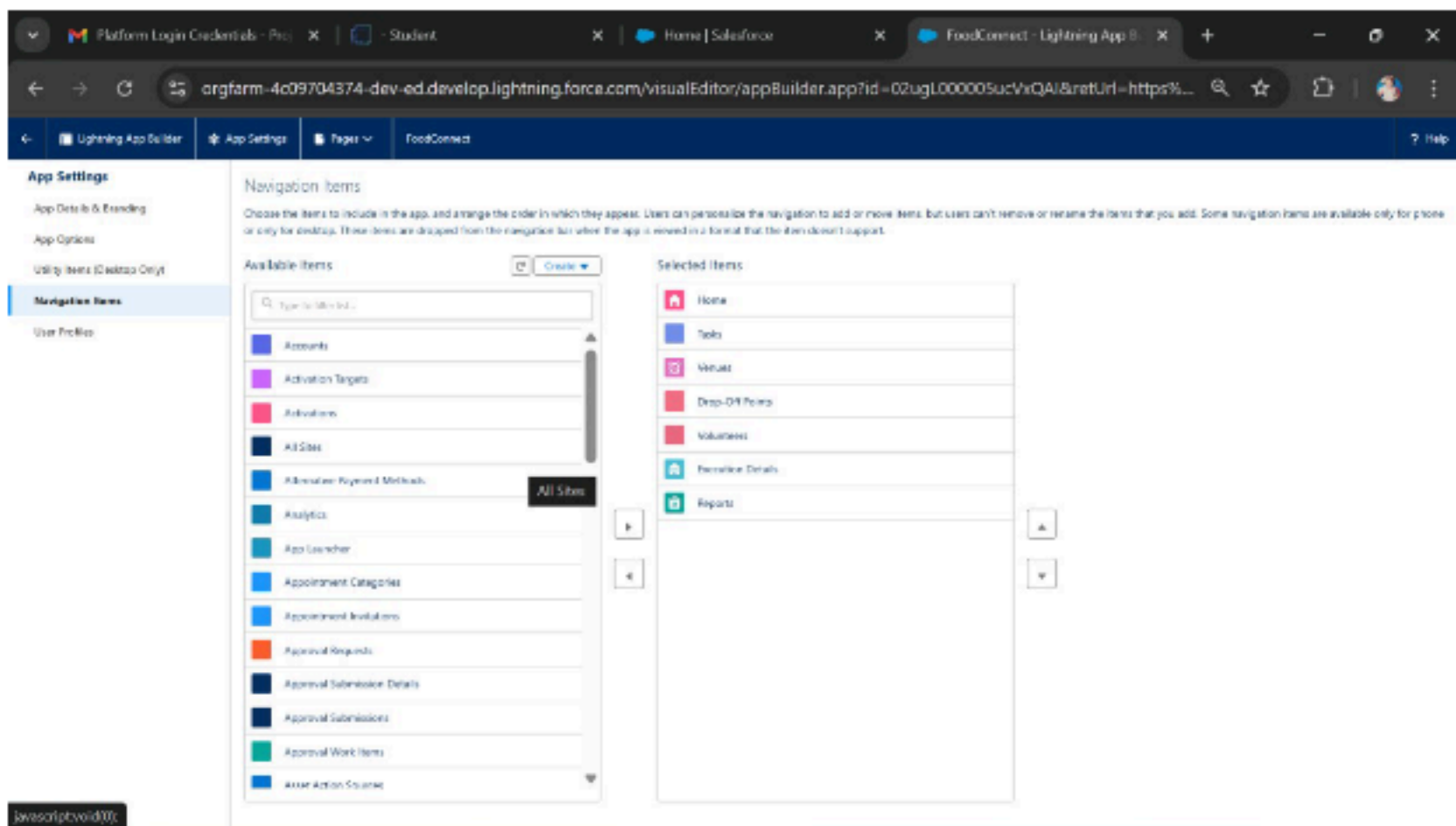
Primary Color Hex Value

#0070C0

Use the app's image and color instead of the org's custom theme

App Launcher Preview

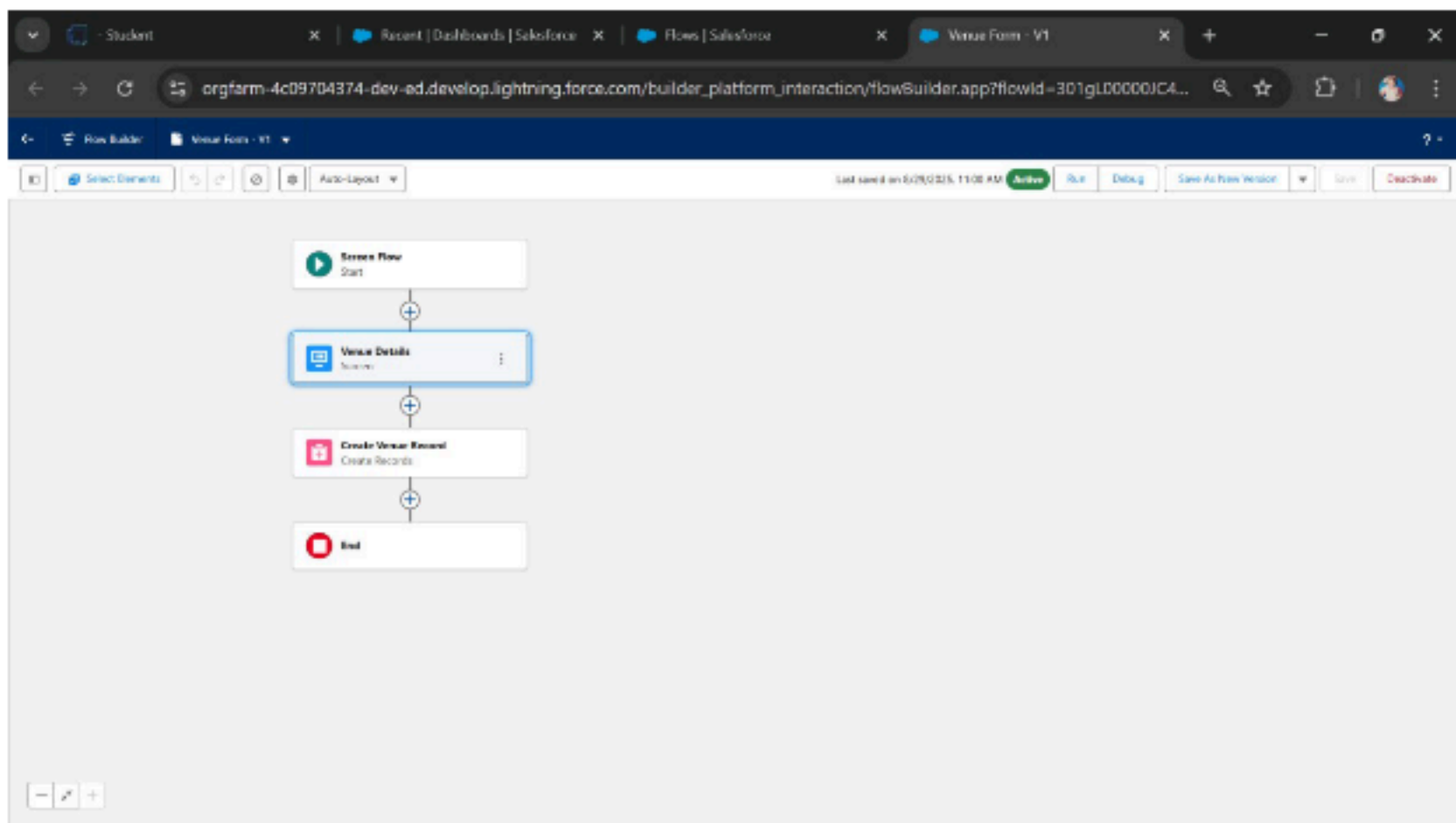
FoFoodConnect



•Flow Implementation

Auto-approve fresh food requests.

Auto-cancel expired items.



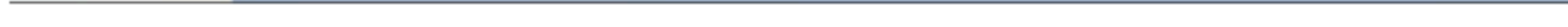
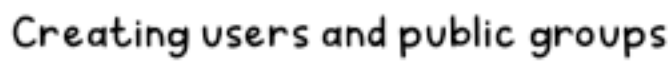
Added Apex trigger to drop of point

```
Developer Console - Google Chrome
orgfarm-4c09704374-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Text Workspace Help
DropOffTrigger.apex
Code Coverage Icons API Version: 54 Go To

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 }

Logs Tests Checkpoints Query Editor View Stats Progress Problems
User Application Operation Time Status Read Row
Click here to like this log list
```



•Report types

The screenshot shows the Salesforce Setup interface for a custom report type. The browser tabs at the top include 'Student', 'Recent Dashboards | Salesforce', and 'Report Types | Salesforce'. The address bar shows the URL: `orgfarm-4c09704374-dev-ed.develop.lightning.force.com/lightning/setup/CustomReportTypeLightning/070gL00000057Q9NQAU...`. The left sidebar contains navigation links: 'Setup', 'Home', 'Object Manager', and a search bar. Below these are links for 'Report', 'Reports & Dashboards', 'Reporting Snapshots', 'Reports and Dashboards Settings', and 'Security'. The main content area is titled 'Custom Report Types' and shows details for a report type named 'Drop-Off Points with Volunteers with Execution Details'. The details include the display label, API name, description, created by, share in category, deployment status, and modified by. The 'Object Relationships' section shows a Venn diagram with three sets: 'Drop-Off Points (A)', 'Volunteers (B)', and 'Execution Details (C)'. The intersection of A and B is highlighted, indicating the relationship between these two objects. Below the Venn diagram is a table with columns 'Source Object' and 'Included Fields'. The table shows that the 'Drop-Off Points' source object includes the 'Volunteers' field.

Search Setup

Setup Home Object Manager

Report

Reports & Dashboards

Reporting Snapshots

Reports and Dashboards Settings

Security

Custom Report Types

Drop-Off Points with Volunteers with Execution Details

Preview Layout Edit Layout Clone Delete Close

Below is the information for this custom report type. You can click the buttons on this to preview or update information for the custom report type.

Details

Display Label: Drop-Off Points with Volunteers with Execution Details

API Name: Drop-Off-Points-with-Volunteers-with-Execution-Details

Description: Drop-Off Points with Volunteers with Execution Details

Created By: BALU SOWNDARANA, 28/08/2025, 12:23 pm

Share in Category: action

Deployment Status: Deployed

Modified By: BALU SOWNDARANA, 28/08/2025, 12:23 pm

Object Relationships

Drop-Off Points (A)

Volunteers (B)

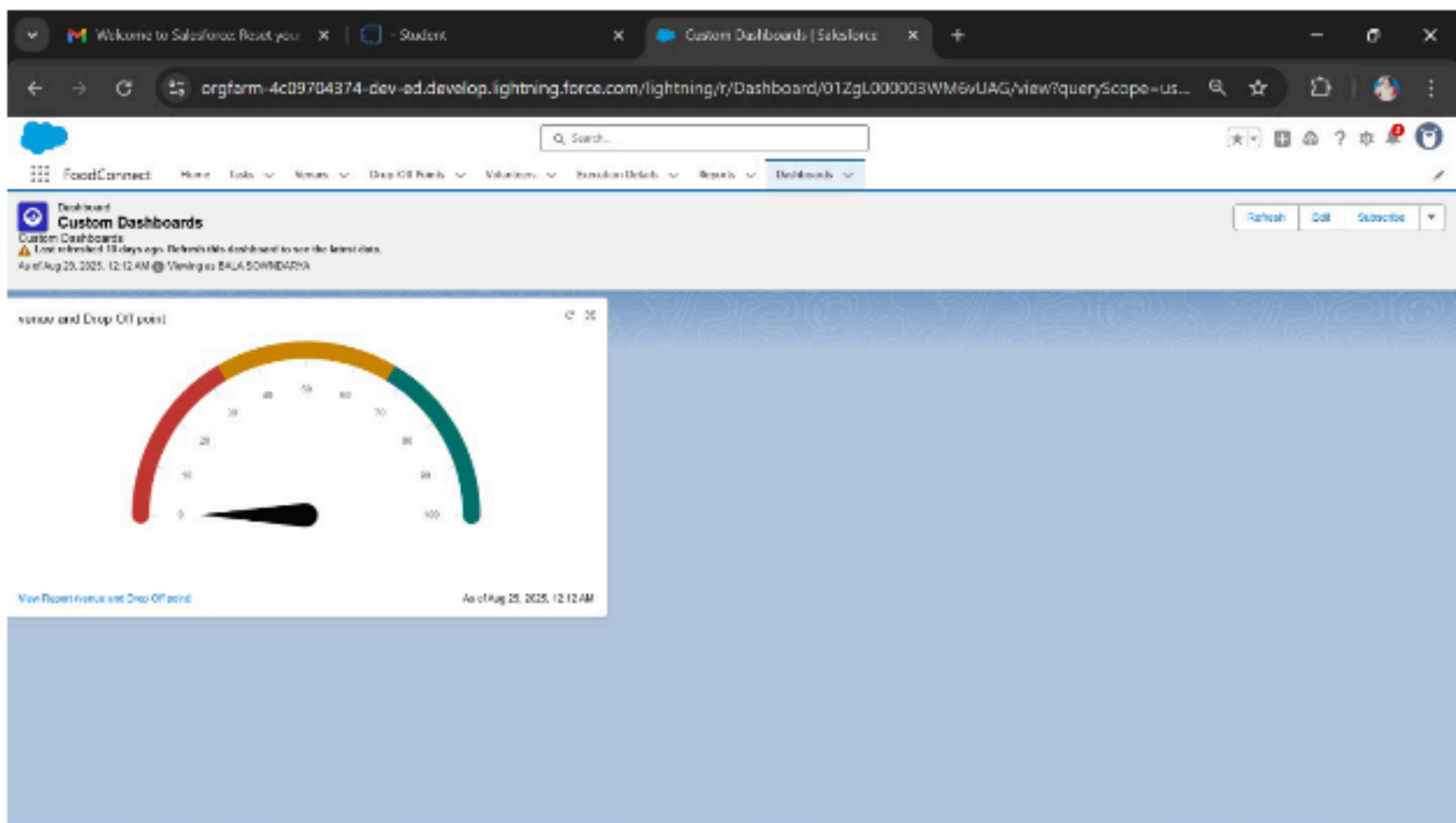
Execution Details (C)

with at least one related record from Volunteers (B)

with at least one related record from Execution Details (C)

Fields

Source Object	Included Fields
Drop-Off Points	Volunteers



orgfarm-4c09704374-dev-ed.develop.lightning.force.com/lightning/setup/SecuritySharing/home

Setup Home Object Manager

Sharing Settings

This page displays your organization's sharing settings. These settings specify the level of access your users have to each other's data. Go to Background Jobs to monitor the progress of a change to an organization-wide default or a parallel sharing recalculation.

Manage sharing settings for: Drop-Off Point

Create External Sharing Model

Default sharing settings

Organization-Wide Defaults

Object	Default Internal Access	Default External Access	Guest Access: Bring the website
Drop-Off Point	Public Read/Write	Private	<input checked="" type="checkbox"/>

Other Settings

Manager: Venktesh ☐ (4)

Require guest user record access ☒ (4)

Require permission to view record access in lookup fields ☐ (4)

Sharing Rules

Drop-Off Point Sharing Rules

Action	Criteria	Shared With	Access Level
EDIT (0)	Drop-Off Point: Database contains 10	Owner, Admin	Read Only
EDIT (0)	Drop-Off Point: Database (GREATEST THAN 10) AND (Drop-Off Point: Database LESS OR EQUAL 10)	Owner, Admin	Read Only
EDIT (0)	Drop-Off Point: Database contains less than 10 AND (Drop-Off Point: Database contains more than 10)	Owner, Admin, Guest	Read Only

Sharing Overrides

Overrides: None Available. Drop-Off Point Allocation

orgform-4c09704374-dev-ed.develop.lightning.force.com/lightning/page/home

FoodConnect

Venue Form

Venue Name

Email
you@example.com

Phone

Venue location

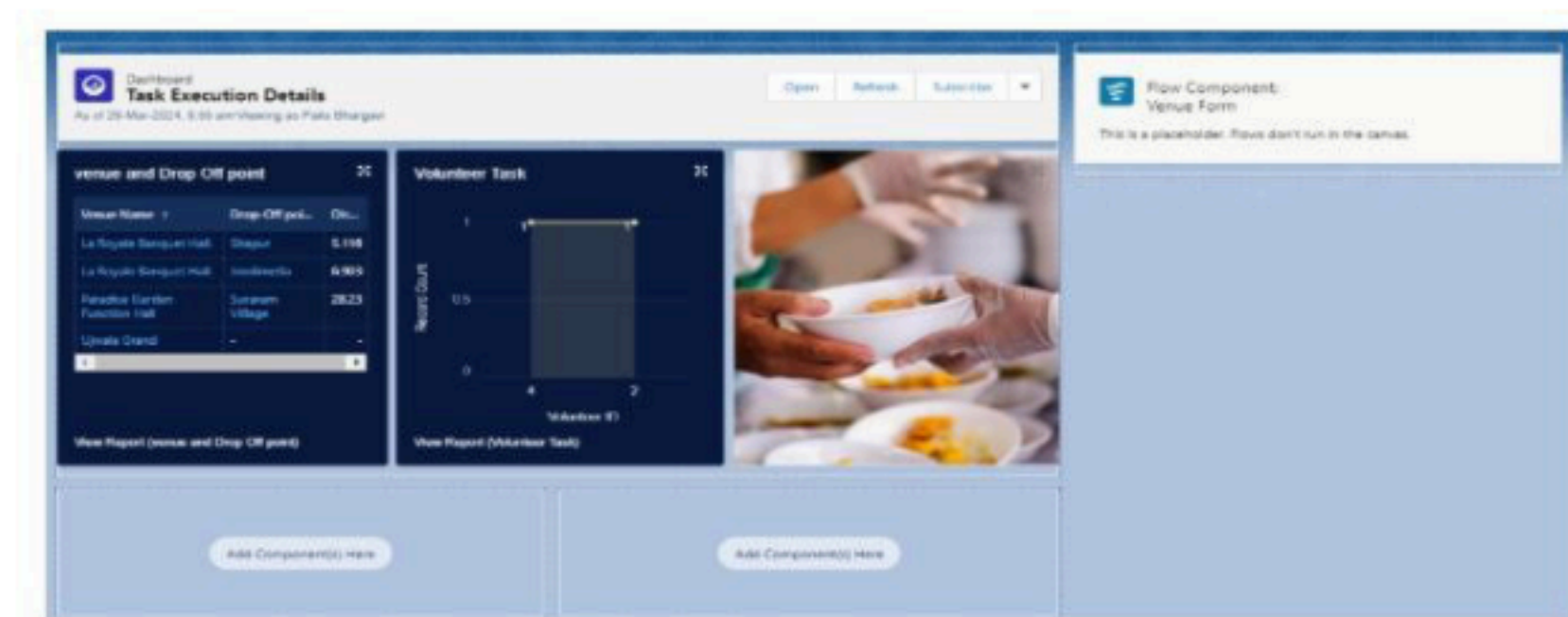
Latitude

Longitude

View

RESULTS :

Output Screenshots :



ADVANTAGES & DISADVANTAGES :

- Reduces food wastage.
- Helps NGOs & needy people.

- Automated, time-saving, transparent system.
- Requires internet access.
- NGOs/Donors must be trained to use Salesforce.

CONCLUSION:

Leftover Food Management System in Salesforce successfully reduces food wastage. Connects donors & receivers effectively.
Improves efficiency using automation..

Apex trigger

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.)

Code:

```
trigger DropOffTrigger on Drop_Off_point__c (before insert)
{
    for(Drop_Off_point__c Drop : Trigger.new){
        Drop.Distance__c = Drop.distance_calculation__c;
    }
}
```

