

# PROJECT TITLE

College Name: KG COLLEGE OF ARTS AND SCIENCE

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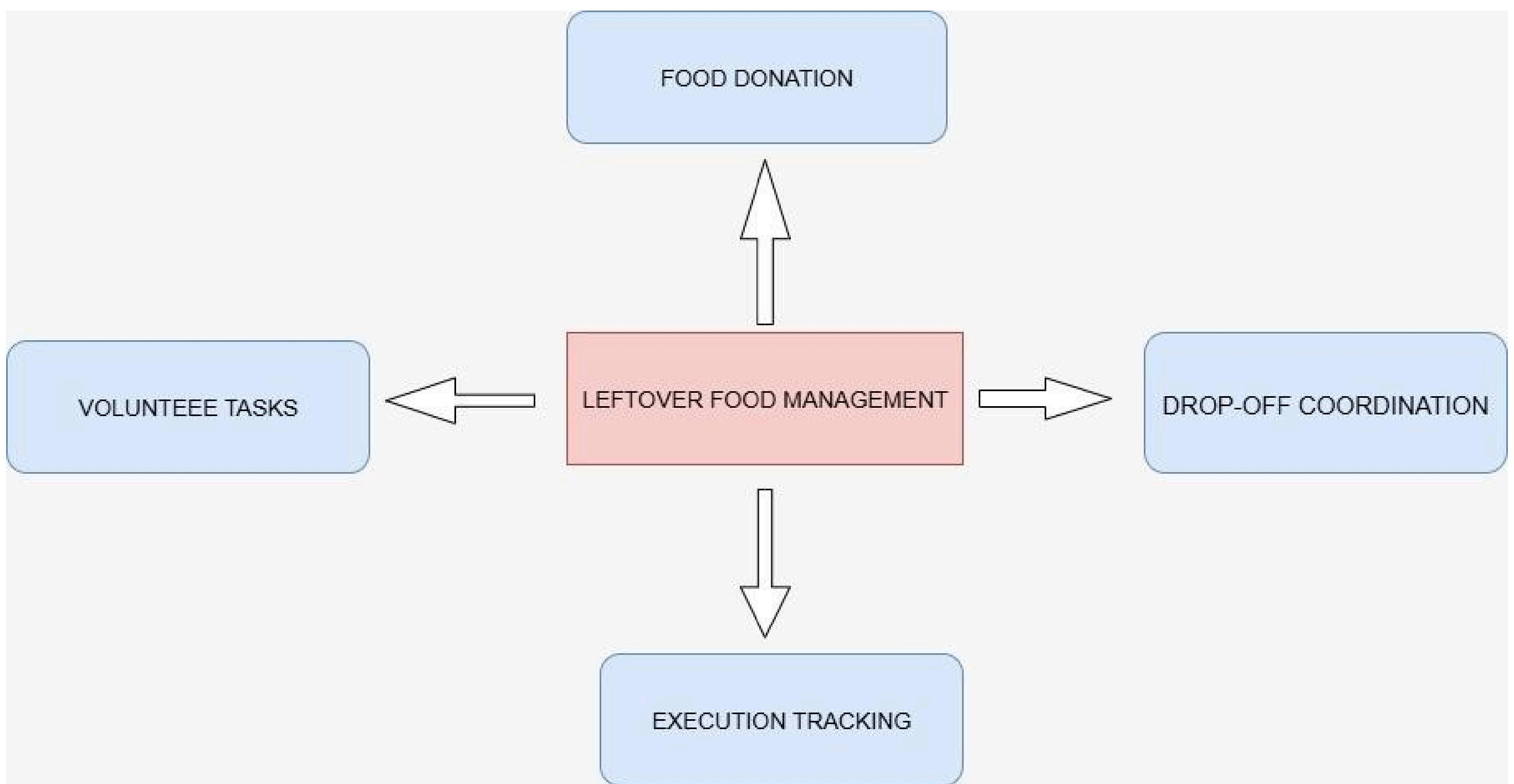
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# 1. INTRODUCTION

## 1.1 Project Overview

The Leftover Food Supply Management System is a Salesforce-based application that facilitates the efficient collection and distribution of surplus food to underserved communities. It connects donors with drop-off points and volunteers to ensure timely and hygienic delivery. The system streamlines operations like donor registration, volunteer task assignment, and delivery tracking. Salesforce automation tools such as Flows, Approval Processes, and Email Alerts enhance efficiency and accountability.



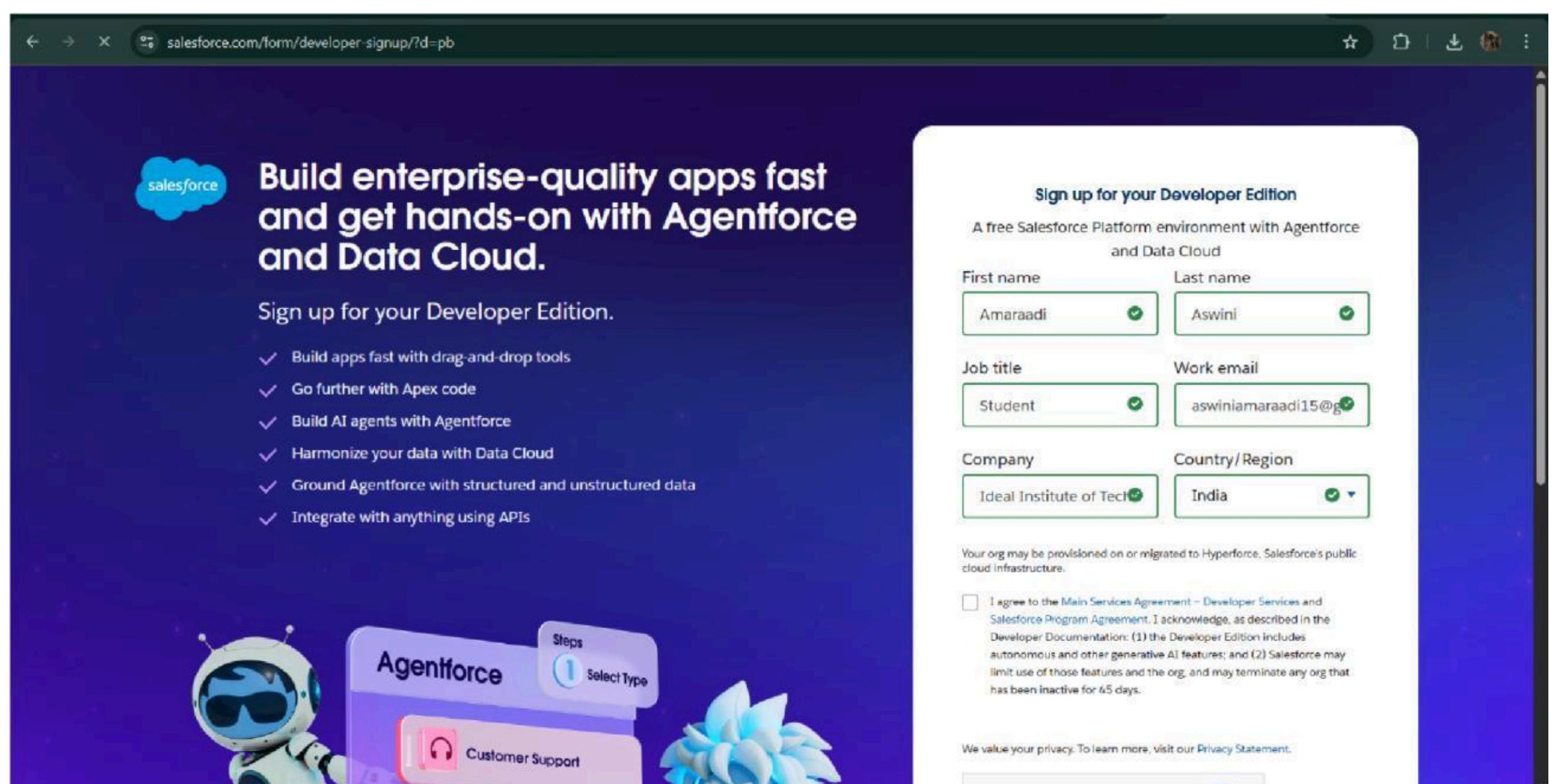
## 1.2 Purpose

The main objective of the project is to enable organizations to efficiently manage the collection and distribution of surplus food. It reduces manual effort, improves tracking accuracy, and ensures timely coordination between donors, volunteers, and drop-off points.

## DEVELOPMENT PHASE

### Creating Developer Account:

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



- Created objects: venue drop off point task volunteer execution details

Setup > Object Manager

### Venue

Details	
<a href="#">Fields &amp; Relationships</a> <a href="#">Page Layouts</a> <a href="#">Lightning Record Pages</a> <a href="#">Buttons, Links, and Actions</a> <a href="#">Compact Layouts</a> <a href="#">Field Sets</a> <a href="#">Object Limits</a> <a href="#">Record Types</a> <a href="#">Related Lookup Filters</a> <a href="#">Search Layouts</a> <a href="#">List View Button Layout</a> <a href="#">Restriction Rules</a> <a href="#">Scoping Rules</a> <a href="#">Object Access</a> <a href="#">Triggers</a> <a href="#">Flow Triggers</a> <a href="#">Validation Rules</a> <a href="#">Conditional Field Formatting</a>	<b>Description</b> <input type="text"/> <b>API Name</b> <input type="text" value="Venue__c"/> <b>Custom</b> <input checked="" type="checkbox"/> <b>Singular Label</b> <input type="text" value="Venue"/> <b>Plural Label</b> <input type="text" value="Venues"/>  <b>Enable Reports</b> <input checked="" type="checkbox"/> <b>Track Activities</b> <input checked="" type="checkbox"/> <b>Track Field History</b> <input checked="" type="checkbox"/> <b>Deployment Status</b> <input type="text" value="Deployed"/> <b>Help Settings</b> <input type="text" value="Standard salesforce.com Help Window"/>

[Edit](#) [Delete](#)

Setup > Object Manager

### Drop-Off Point

Details	
<a href="#">Fields &amp; Relationships</a> <a href="#">Page Layouts</a> <a href="#">Lightning Record Pages</a> <a href="#">Buttons, Links, and Actions</a> <a href="#">Compact Layouts</a> <a href="#">Field Sets</a> <a href="#">Object Limits</a> <a href="#">Record Types</a> <a href="#">Related Lookup Filters</a> <a href="#">Search Layouts</a> <a href="#">List View Button Layout</a> <a href="#">Restriction Rules</a> <a href="#">Scoping Rules</a> <a href="#">Object Access</a> <a href="#">Triggers</a> <a href="#">Flow Triggers</a> <a href="#">Validation Rules</a> <a href="#">Conditional Field Formatting</a>	<b>Description</b> <input type="text"/> <b>API Name</b> <input type="text" value="Drop_Off_Point__c"/> <b>Custom</b> <input checked="" type="checkbox"/> <b>Singular Label</b> <input type="text" value="Drop-Off Point"/> <b>Plural Label</b> <input type="text" value="Drop-Off Points"/>  <b>Enable Reports</b> <input checked="" type="checkbox"/> <b>Track Activities</b> <input checked="" type="checkbox"/> <b>Track Field History</b> <input checked="" type="checkbox"/> <b>Deployment Status</b> <input type="text" value="Deployed"/> <b>Help Settings</b> <input type="text" value="Standard salesforce.com Help Window"/>

[Edit](#) [Delete](#)

Setup > Object Manager

## Task

Details	Details
Fields & Relationships	Description
Page Layouts	API Name
Lightning Record Pages	Task_c
Buttons, Links, and Actions	Custom
Compact Layouts	✓
Field Sets	Singular Label
Object Limits	Task
Record Types	Plural Label
Related Lookup Filters	Tasks
Search Layouts	
List View Button Layout	
Restriction Rules	
Scoping Rules	
Object Access	
Triggers	
Flow Triggers	
Validation Rules	
Conditional Field Formatting	
	Enable Reports
	✓
	Track Activities
	✓
	Track Field History
	✓
	Deployment Status
	Deployed
	Help Settings
	Standard salesforce.com Help Window

https://orgfarm-0e04b022a4-dev-ed.develop.lightning.force.com/one/one.ap...

Setup > Object Manager

## Volunteer

Details	Details
Fields & Relationships	Description
Page Layouts	API Name
Lightning Record Pages	Volunteer_c
Buttons, Links, and Actions	Custom
Compact Layouts	✓
Field Sets	Singular Label
Object Limits	Volunteer
Record Types	Plural Label
Related Lookup Filters	Volunteers
Search Layouts	
List View Button Layout	
Restriction Rules	
Scoping Rules	
Object Access	
Triggers	
Flow Triggers	
Validation Rules	
Conditional Field Formatting	
	Enable Reports
	✓
	Track Activities
	✓
	Track Field History
	✓
	Deployment Status
	Deployed
	Help Settings
	Standard salesforce.com Help Window

https://orgfarm-0e04b022a4-dev-ed.develop.lightning.force.com/one/one.ap...

The screenshot shows the Salesforce Setup interface with the following details:

**Setup > Object Manager**

**Execution Detail**

**Details**

Details	Details
Fields & Relationships	Description
Page Layouts	
Lightning Record Pages	API Name Execution_Detail_c
Buttons, Links, and Actions	Custom ✓
Compact Layouts	Singular Label Execution Detail
Field Sets	Plural Label Execution Details
Object Limits	Enable Reports ✓
Record Types	Track Activities ✓
Related Lookup Filters	Track Field History ✓
Search Layouts	Deployment Status Deployed
List View Button Layout	Help Settings Standard salesforce.com Help Window
Restriction Rules	
Scoping Rules	
Object Access	
Triggers	
Flow Triggers	
Validation Rules	
Conditional Field Formatting	

**Edit    Delete**

<https://orgfarm-0e04b022a4-dev-ed.develop.lightning.force.com/one/one.ap...>

- Configured fields and relationships

Fields & Relationships					
	FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Page Layouts	Contact Email	Contact_Email__c	Email		
Lightning Record Pages	Contact Phone	Contact_Phone__c	Phone		
Buttons, Links, and Actions	Created By	CreatedById	Lookup(User)		
Compact Layouts	Last Modified By	LastModifiedById	Lookup(User)		
Field Sets	Location	Location__c	Geolocation		
Object Limits	Owner	OwnerId	Lookup(User,Group)		✓
Record Types	Venue Location	Venue_Location__c	Long Text Area(32768)		
Related Lookup Filters	Venue Name	Name	Text(80)		✓
Search Layouts					
List View Button Layout					
Restriction Rules					
Scoping Rules					
Object Access					
Triggers					
Flow Triggers					
Validation Rules					
Conditional Field Formatting					

Fields & Relationships					
	FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Page Layouts	Created By	CreatedById	Lookup(User)		
Lightning Record Pages	Distance	Distance__c	Number(14, 4)		
Buttons, Links, and Actions	distance calculation	distance_calculation__c	Formula (Number)		
Compact Layouts	Drop-Off Point Name	Name	Text(80)		✓
Field Sets	Last Modified By	LastModifiedById	Lookup(User)		
Object Limits	Location 2	Location_2__c	Geolocation		
Record Types	Owner	OwnerId	Lookup(User,Group)		✓
Related Lookup Filters	State	State__c	Picklist		
Search Layouts	Venue_c	Venue__c	Lookup(Venue)		✓
List View Button Layout					
Restriction Rules					
Scoping Rules					
Object Access					
Triggers					
Flow Triggers					
Validation Rules					
Conditional Field Formatting					

Setup > Object Manager

### Task

Details			
<a href="#">Fields &amp; Relationships</a> <a href="#">Page Layouts</a> <a href="#">Lightning Record Pages</a> <a href="#">Buttons, Links, and Actions</a> <a href="#">Compact Layouts</a> <a href="#">Field Sets</a> <a href="#">Object Limits</a> <a href="#">Record Types</a> <a href="#">Related Lookup Filters</a> <a href="#">Search Layouts</a> <a href="#">List View Button Layout</a> <a href="#">Restriction Rules</a> <a href="#">Scoping Rules</a> <a href="#">Object Access</a> <a href="#">Triggers</a> <a href="#">Flow Triggers</a> <a href="#">Validation Rules</a> <a href="#">Conditional Field Formatting</a>	<b>Details</b> <hr/> <p>Description:</p> <p>API Name: <b>Task_c</b></p> <p>Custom ✓</p> <p>Singular Label: <b>Task</b></p> <p>Plural Label: <b>Tasks</b></p>		
			<a href="#">Edit</a> <a href="#">Delete</a>

Setup > Object Manager

### Task

Details		Fields & Relationships				
		15 Items, Sorted by Field Label				
Fields & Relationships		FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
<a href="#">Page Layouts</a> <a href="#">Lightning Record Pages</a> <a href="#">Buttons, Links, and Actions</a> <a href="#">Compact Layouts</a> <a href="#">Field Sets</a> <a href="#">Object Limits</a> <a href="#">Record Types</a> <a href="#">Related Lookup Filters</a> <a href="#">Search Layouts</a> <a href="#">List View Button Layout</a> <a href="#">Restriction Rules</a> <a href="#">Scoping Rules</a> <a href="#">Object Access</a> <a href="#">Triggers</a> <a href="#">Flow Triggers</a> <a href="#">Validation Rules</a> <a href="#">Conditional Field Formatting</a>	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(32768)			
	Food Category	Food_Category_c	Picklist (Multi-Select)			
	Last Modified By	LastModifiedById	Lookup(User)			
	Name of the Person	Name_of_the_Person_c	Text(200)			
	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			
	Sponsored By	Sponsored_By_c	Lookup(Venue)	✓		
	Task ID	Task_ID_c	Auto Number			
	Task Name	Name	Text(80)	✓		

The screenshot shows the Salesforce Setup interface with the following details:

**Header:** Search Setup, Home, Object Manager

**Breadcrumbs:** SETUP > OBJECT MANAGER

**Section:** Execution Detail

**Table:** Fields & Relationships

**Table Headers:**

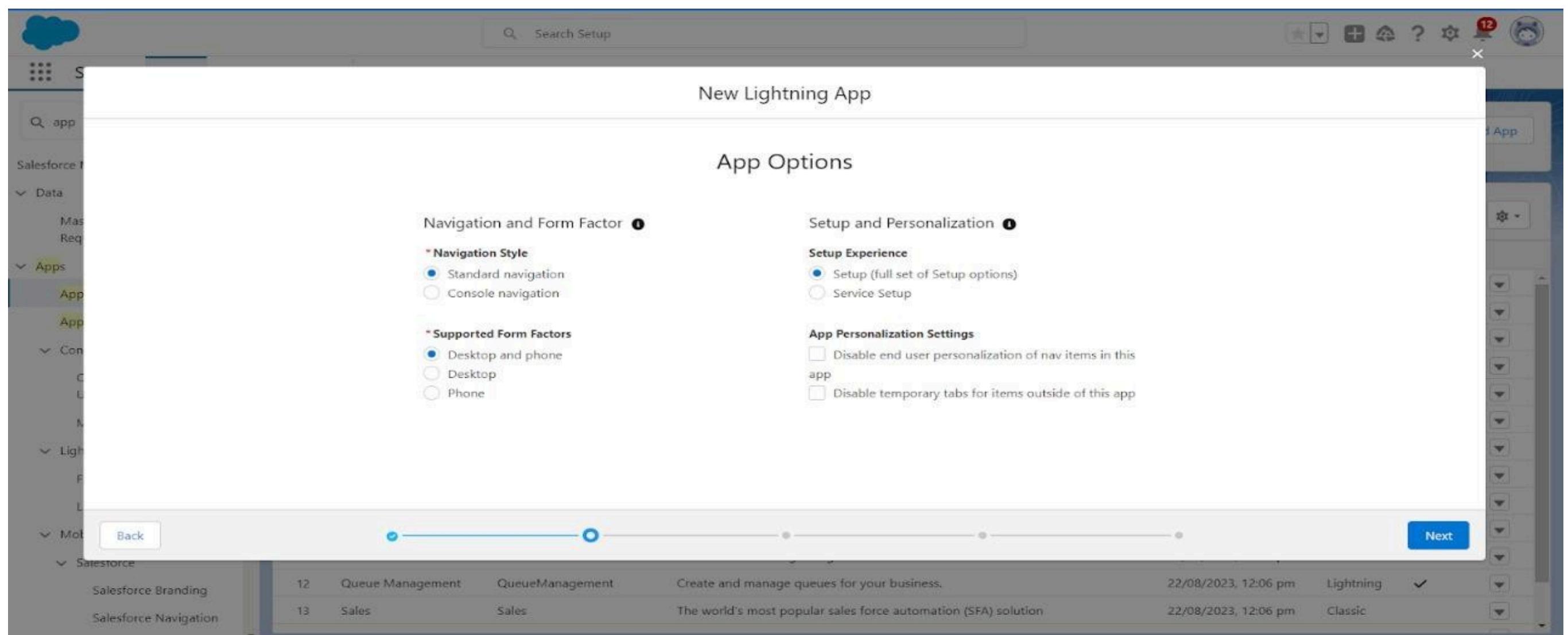
FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
-------------	------------	-----------	-------------------	---------

**Table Data:**

Created By	CreatedBy	Lookup(User)		
Execution Detail Name	Name	Text(80)		✓
Last Modified By	LastModifiedBy	Lookup(User)		
Task	Task_c	Master-Detail(Task)		✓
Volunteer	Volunteer_c	Master-Detail(Volunteer)		✓

**Left Sidebar:** Details, 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, Validation Rules, Conditional Field Formatting.

- Developed Lightning App with relevant tabs



Available Items

C Create ▼

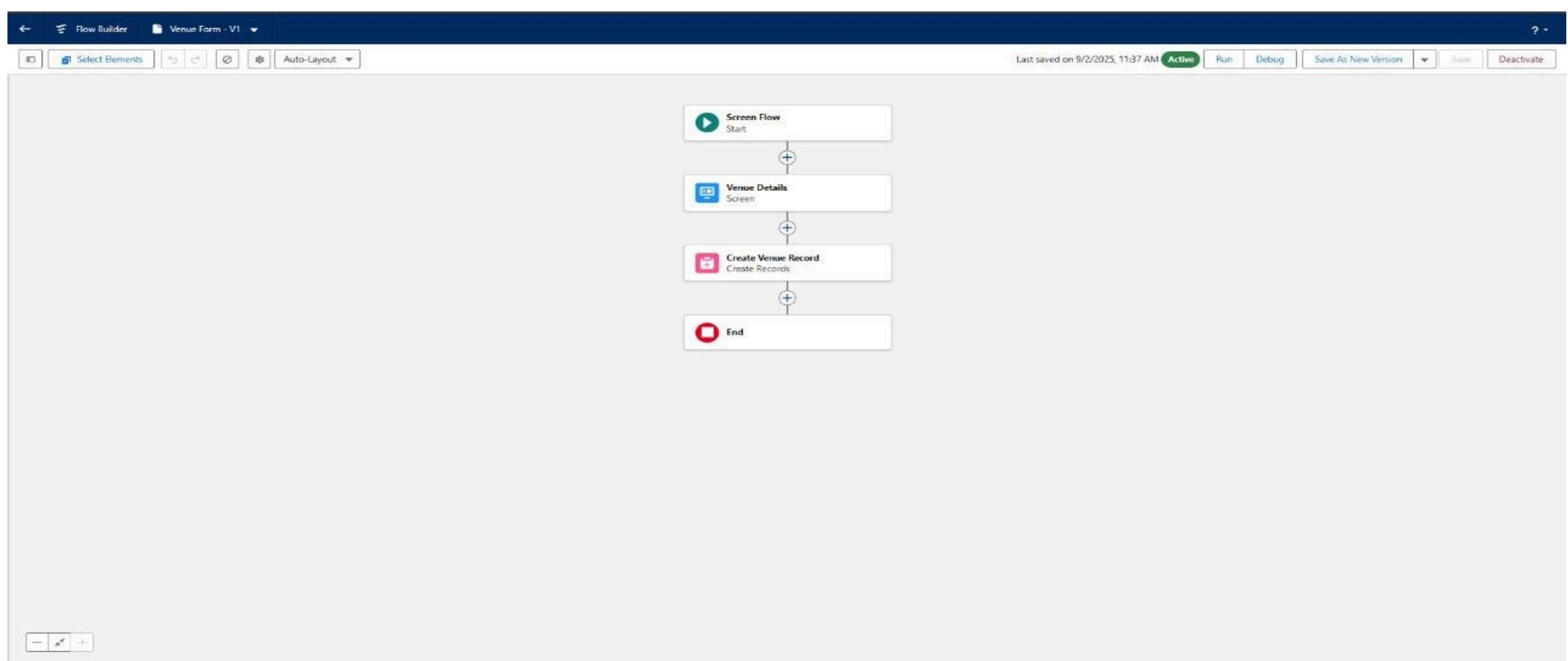
Icon	Item Name
	Accounts
	All Sites
	Alternative Payment Methods
	Analytics
	App Launcher
	Appointment Categories
	Appointment Invitations
	Approval Requests
	Asset Action Sources
	Asset Actions

Selected Items

C Create ▼

	Home
	Venues
	Tasks
	Drop-Off points
	Execution Details
	Volunteers
	Reports
	Dashboards

- Implemented Flows for monthly rent and payment success



Flow Builder - Venue Form - V1

Last saved on 9/2/2025, 11:37 AM (Active) Run Debug Save As New Version Deactivate

### Edit Screen

**Venue Form**

Components Fields

Search components...

Input (53)

- Action Button
- Add Attendees
- Address
- Call Script
- Cancel Appointment
- Checkbox
- Checkbox Group
- Choice Lookup
- Currency
- Data Table
- Date
- Date & Time
- Dependent Picklists
- Display Image
- Email
- Enhanced Message
- File Upload
- Long Text Area
- Lookup

Get more on the AppExchange

Venue Name:

Email:  you@example.com

Phone:

Venue Location:

longitude:

Latitude:

Pause Previous Finish

Screen Properties

Properties

\*Label:  Venue Details

\*API Name:  Create\_Venue\_Record

Description:

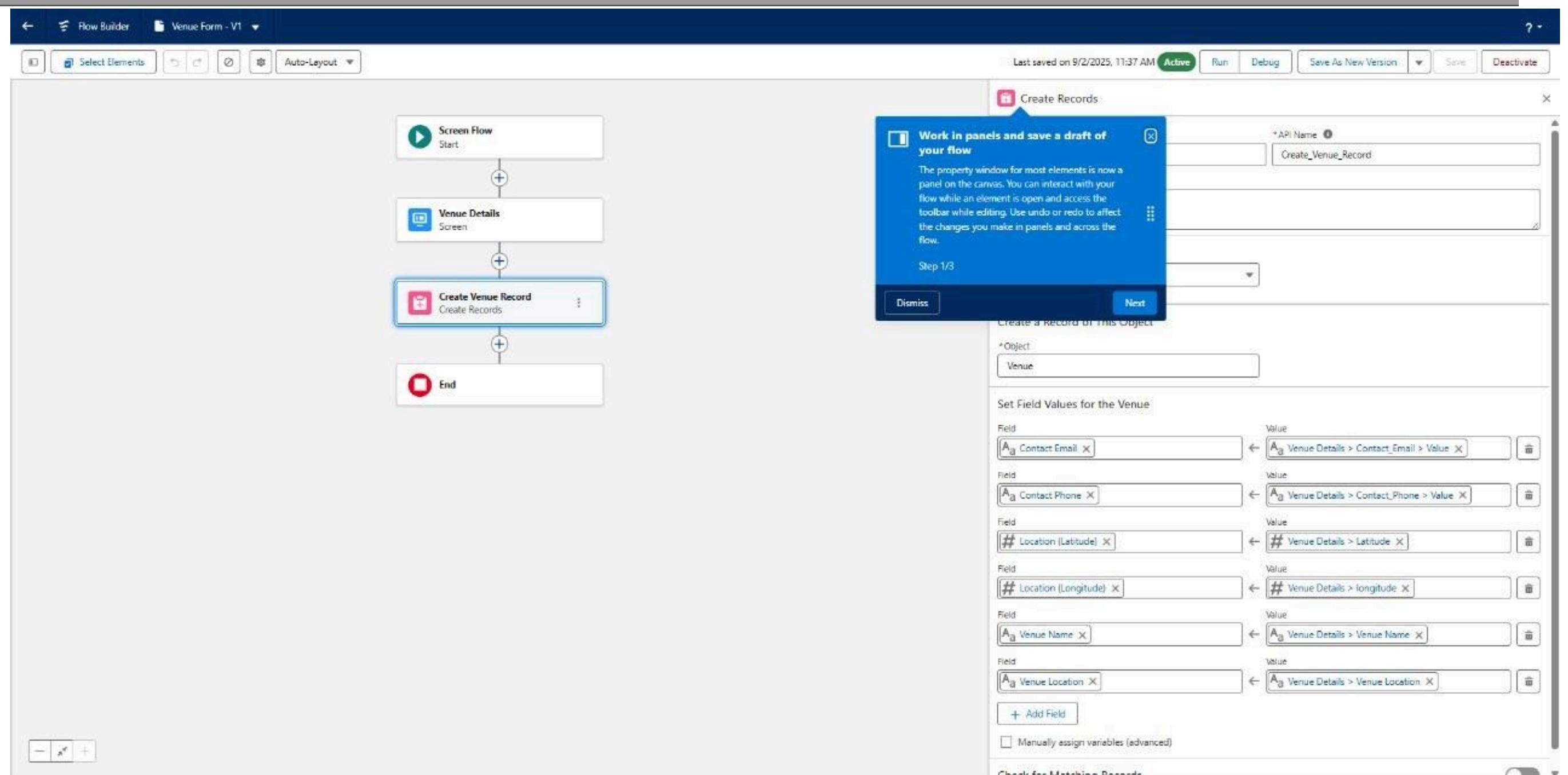
Stage: Select a stage resource...

Configure Header

Configure Footer

Configure Screen Actions

Cancel Done



- Creating triggers

File ▾ Edit ▾ Debug ▾ Test ▾ Workspace ▾ Help ▾ < >

New

Open

CTRL+O

Open Resource

CTRL+SHIFT+O

Open Lightning Resources

CTRL+SHIFT+A

Apex Class

Apex Trigger

Visualforce Page

Visualforce Component

## New Apex Trigger

Name:

sObject:

Submit

Code Coverage: None API Version: 64 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 }
10
11

```

Logs Tests Checkpoints Query Editor View State Progress Problems

User	Application	Operation	Time	Status	Read	Size

Filter Click here to filter the log list

- Creation of users

General Information

First Name	Iksha Foundation	Role	<None Specified>
Last Name	Iksha_Foundation	User License	Salesforce Platform
Alias	iiksh	Profile	NGOs Profile
Email	bhargavipaila1023@gmail.com	Active	<input checked="" type="checkbox"/>
Username	ikshafoundation@sb.com	Marketing User	<input type="checkbox"/>
Nickname	User1711437164226559933	Offline User	<input type="checkbox"/>
Title		Knowledge User	<input type="checkbox"/>
Company		Flow User	<input type="checkbox"/>
Department		Service Cloud User	<input type="checkbox"/>
Division		Site.com Contributor User	<input type="checkbox"/>

Action	Label ↑	Group Name	Created By	Created Date
Edit   Del	Iksha	Iksha	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

- Creation of Report on Venue with DropOff with Volunteer

Outline Filters (2)

Groups

- GROUP ROWS
- Add group...
- Volunteer Name

GROUP COLUMNS

- Add group...

Columns

- Venue Name
- Drop-Off point Name
- # Distance

Volunteer Name ↑    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	-	-
<b>Subtotal</b>			6,936.3488
<b>Total (4)</b>			6,936.3488

REPORT ▾

Volunteer Task ➔ Volunteers with Execution Details and Tasks

Fields Outline Filters

GROUP ROWS

- Add group...
- Volunteer ID

GROUP COLUMNS

- Add group...

Columns

- Volunteer: Volunteer Name
- Task: Task Name
- Execution Detail: Execution Detail Name
- Volunteer: Owner Name
- Task: Date
- Task: Rating

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

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
<b>Subtotal</b>						
4 (1)	Bhavika	Task 1	Execution 1	Iksha Foundation Iksha_Foundation	28/03/2024	4
<b>Subtotal</b>						
<b>Total (2)</b>						

Update Preview Automatically

Row Counts    Detail Rows    Subtotals    Grand Total

- Adding venue and Drop Off point Report to the Dashboard

**Report**

venue and Drop Off point X

Use chart settings from report i

**Display As**



**Groups**

Add group... Search icon

**Columns**

Delete icon

**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	6.9030k
Paradise Garden Function Hall	Suraram Village	28.2332
Ujwala Grand	-	-

**View Report (venue and Drop Off point)**

**Report**

Volunteer Task X

Use chart settings from report i

**Display As**



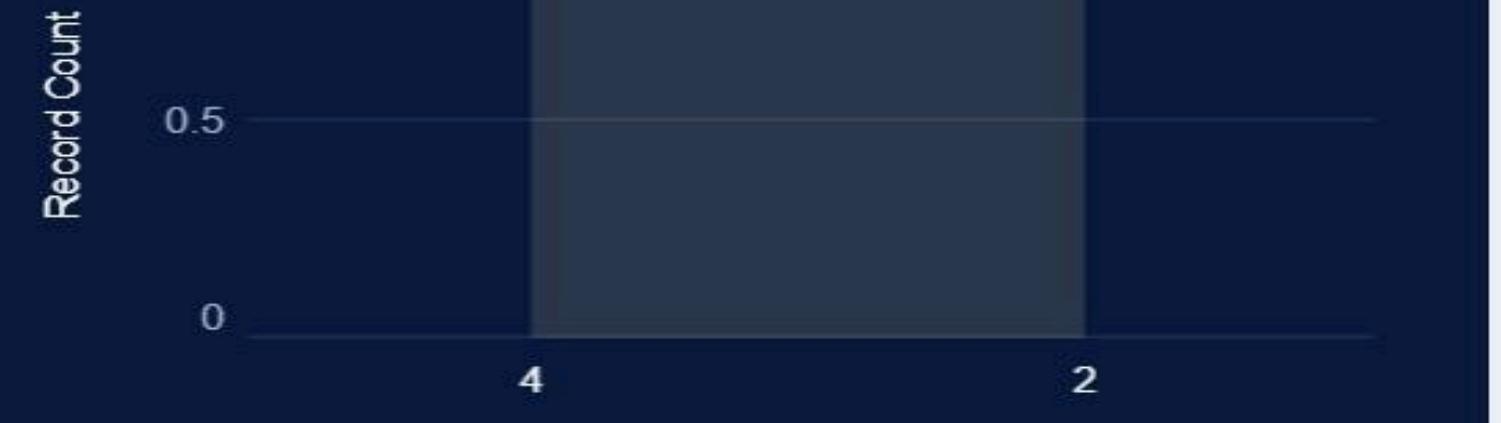
**X-Axis**

Volunteer ID

**Y-Axis**

**Preview**

**Volunteer Task**



**View Report (Volunteer Task)**

FoodConnect Home Venues Tasks Volunteers Drop-Off Points Execution Details Reports Dashboards

Search...

Dashboard Task Execution Details

Last refreshed 16 days ago. Refresh this dashboard to see the latest data.

As of Sep 1, 2025, 11:24 PM Viewing as nithik kanna

venue and Drop Off point

To view this table, refresh the dashboard.

View Report As of Sep 1, 2025, 11:24 PM

Volunteer Task

View Report (Volunteer Task) As of Sep 1, 2025, 11:24 PM

shutterstock.com - 2343495535

# Result

## Output Screenshots

The screenshot shows a dashboard titled "Task Execution Details". At the top left is a "Dashboard" icon and the title "Task Execution Details". Below it is a timestamp: "As of 29-Mar-2024, 9:55 am Viewing as Paila Bhargavi". On the right are buttons for "Open", "Refresh", "Subscribe", and a dropdown menu.

**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	-	-

**Volunteer Task**

Record Count

Volunteer ID

[View Report \(venue and Drop Off point\)](#)

[View Report \(Volunteer Task\)](#)

**Flow Component: Venue Form**

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

Add Component(s) Here

The screenshot shows the FoodConnect application interface. At the top is a navigation bar with icons for Home, Venues, Tasks, Drop-Off points, Execution Details, Volunteers, Reports, and Dashboards. To the right are icons for search, star, plus, download, question mark, settings, and notifications.

**FoodConnect**

**Task Execution Details**

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

**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	-	-

**Volunteer Task**

Record Count

Volunteer ID

[View Report \(venue and Drop Off point\)](#)

[View Report \(Volunteer Task\)](#)

**Venue Form**

Venue Name:

Email:  you@example.com

Phone:

Venue Location:

**Next**

# ADVANTAGES & DISADVANTAGES

## Advantages

1. **Efficient Coordination:** Streamlines communication between donors, volunteers, and drop-off points.
2. **Reduces Food Waste:** Helps minimize food waste by redistributing surplus to those in need.
3. **Automation:** Uses Salesforce tools (Flows, Alerts, etc.) to reduce manual work and human error.
4. **Real-Time Tracking:** Provides visibility into task status, pickup/delivery updates, and execution logs.
5. **Social Impact:** Supports hunger relief efforts and strengthens community support systems.

## Disadvantages

1. **Technology Dependency:** Requires access to Salesforce and internet connectivity, which may be a barrier in some regions.
2. **Initial Setup Cost:** Implementation and customization on Salesforce can be costly for small organizations.
3. **Volunteer Reliability:** The system depends heavily on volunteers, which can lead to inconsistencies in execution.
4. **Food Safety Risks:** If not handled properly, there can be concerns about the hygiene and safety of leftover food.
5. **Training Requirement:** Users need training to effectively use the system and its automated features.

## CONCLUSION

The Leftover Food Supply Management System successfully streamlines the food donation and distribution process through a structured, automated Salesforce application. It enhances efficiency, coordination, and tracking accuracy for donors, volunteers, and administrators, ultimately contributing to reduced food waste and greater community impact.

## APPENDIX

- Source Code: Provided in Apex Classes and Triggers trigger DropOffTrigger on

Drop-Off-point-c (before insert) {

for(Drop-Off-point-c Drop : Trigger.new){

Drop.Distance-c = Drop.distance-calculation-c;

}



