TO SUPPLY LEFTOVER FOOD TO POOR

COLLEGE NAME: KG COLLEGE OF ARTS AND SCIENCE

COLLEGE CODE:

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1.INTRODUCTION

1.1PROJECT OVERVIEW

The Leftover Food Supply Management System is a Salesforce-based application designed to facilitate 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 is built to streamline key operations such as donor registration, volunteer task assignment, and delivery tracking. To enhance efficiency and accountability, the application utilizes Salesforce automation tools like Flows, Approval Processes, and Email Alerts.

1.2PURPOSE

The primary goal of this project is to empower organizations to efficiently manage the collection and distribution of surplus food. The system aims to reduce manual effort, improve the accuracy of tracking, and ensure timely coordination among donors, volunteers, and drop-off points.

Of course, Hem. Here is a structured outline for a document on a "Leftover Food Supply Management System," including the sections you requested for the beginning and the end.

1.3PROBLEM STATEMENT

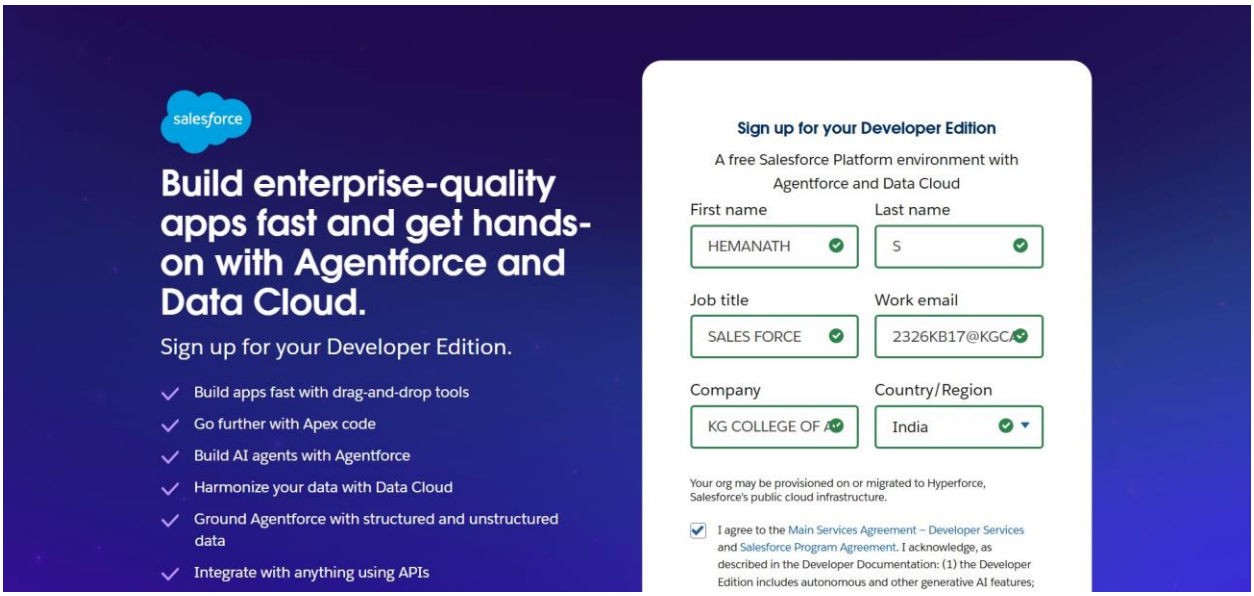
The core problem is the inefficient and unorganized management of surplus food. Key challenges include:

- **LACK OF REAL-TIME INFORMATION:** Food donors (e.g., restaurants) have no immediate way to communicate the availability of surplus food to potential recipients (e.g., NGOs, shelters).
- **LOGISTICAL HURDLES:** There is no coordinated system for the timely pickup and delivery of perishable food, leading to spoilage.
- **FOOD SAFETY AND QUALITY CONCERNS:** Recipients have concerns about the safety and hygiene of leftover food, and donors fear liability issues.
- **SCALABILITY ISSUES:** Existing manual efforts by individual organizations are often limited in their geographical reach and cannot scale effectively to meet the demand.
- **DATA AND ANALYTICS GAP:** There is a lack of data on food waste hotspots, donation patterns, and demand, which prevents strategic planning and optimization.

DEVELOPMENT PHASE

Creating Developer Account:

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



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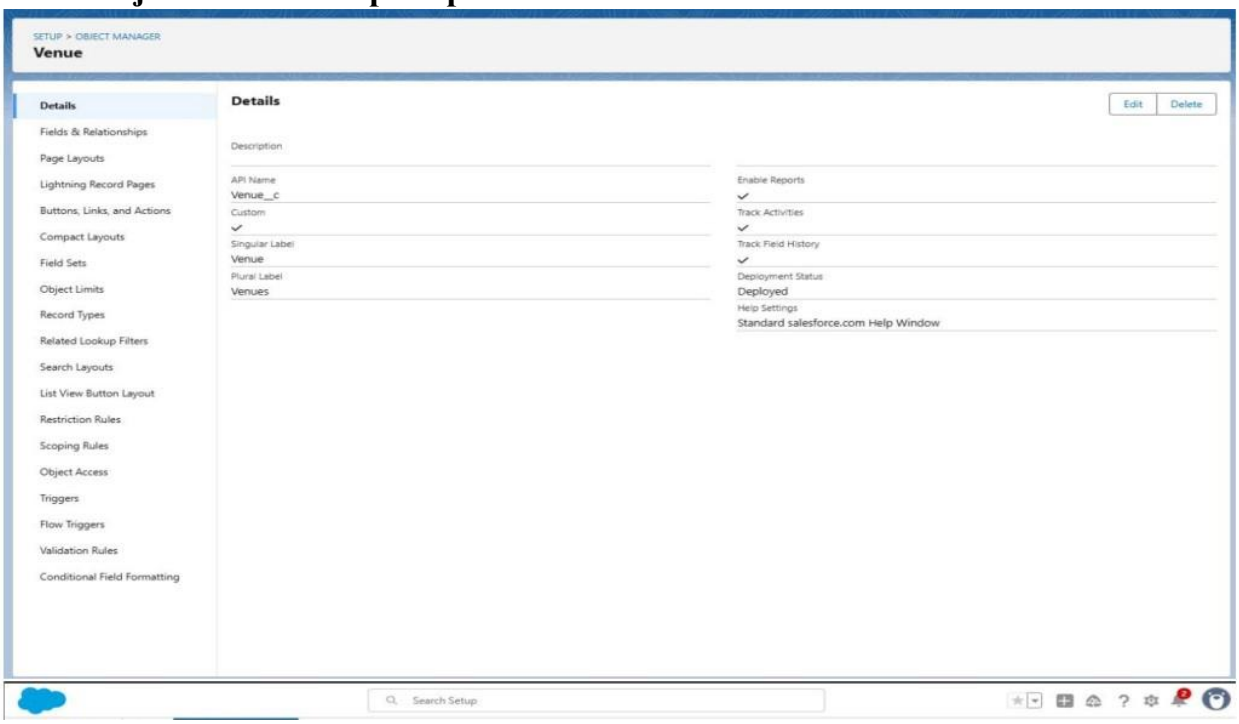

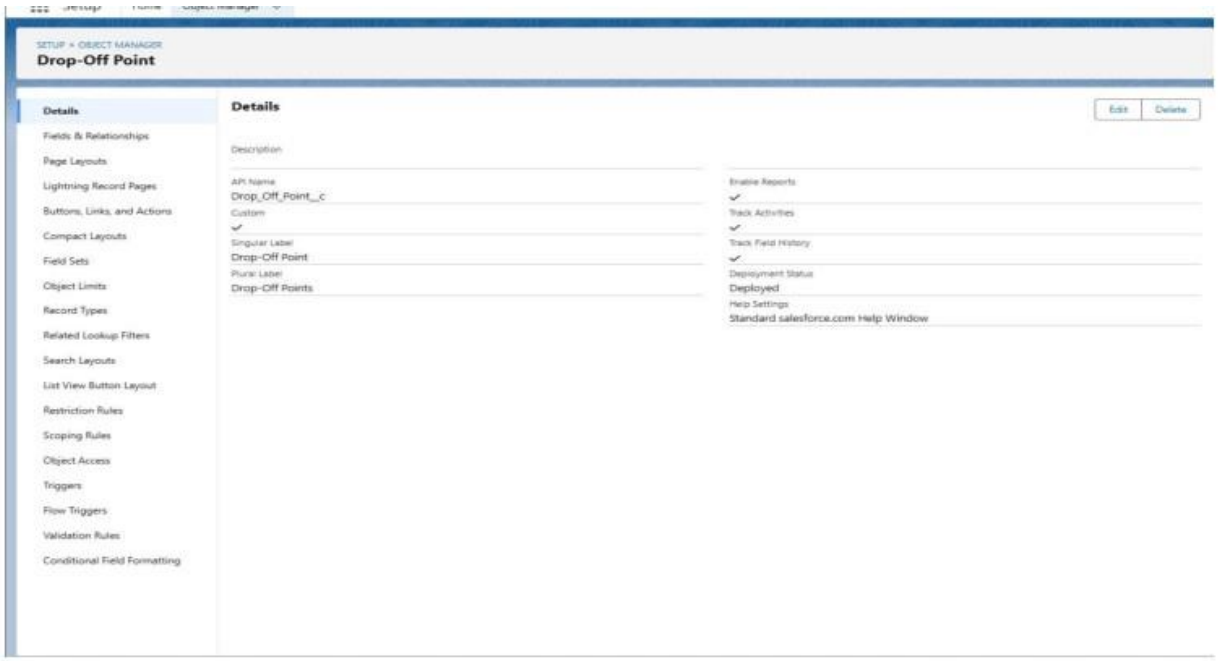
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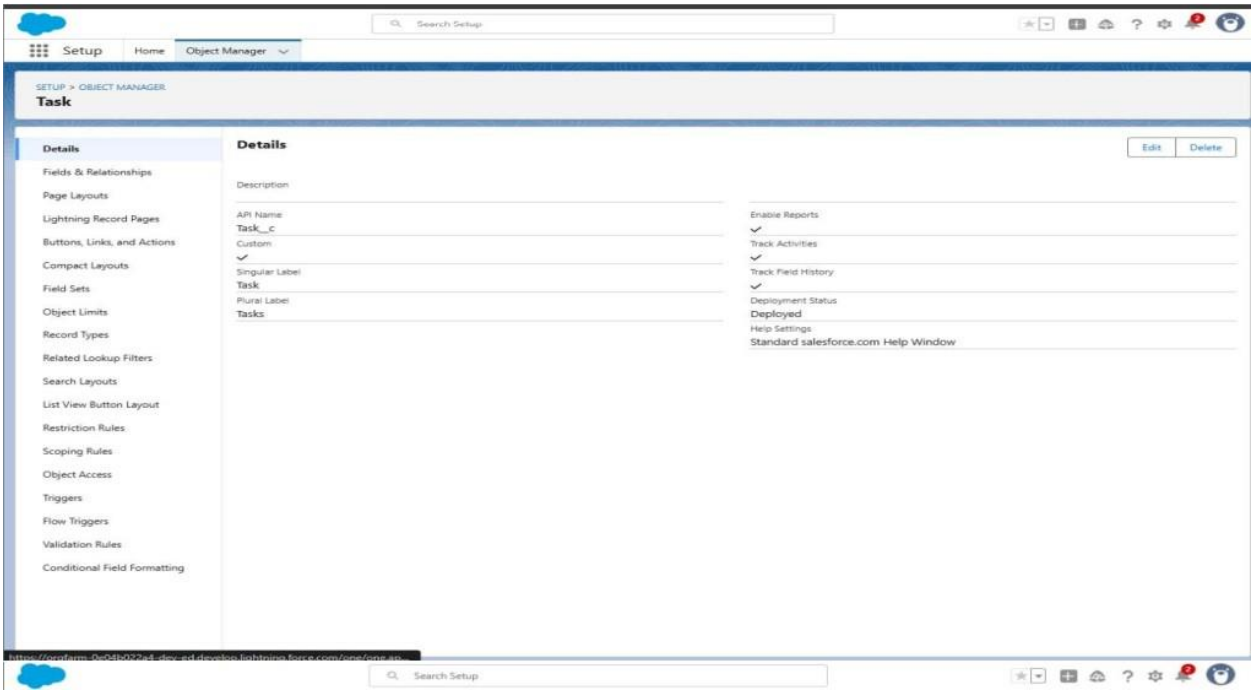
Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters
Search Layouts
List View Button Layout
Restriction Rules
Scoping Rules
Object Access
Triggers
Flow Triggers
Validation Rules
Conditional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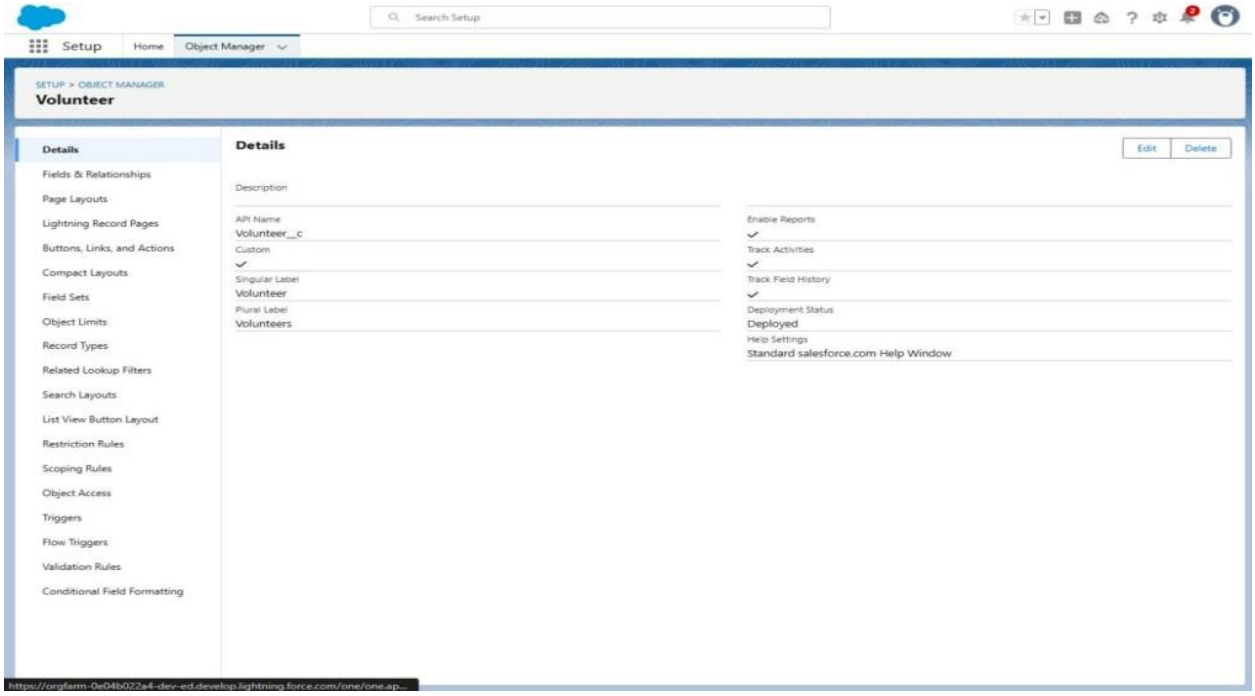
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Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
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Field Sets
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Record Types
Related Lookup Filters
Search Layouts
List View Button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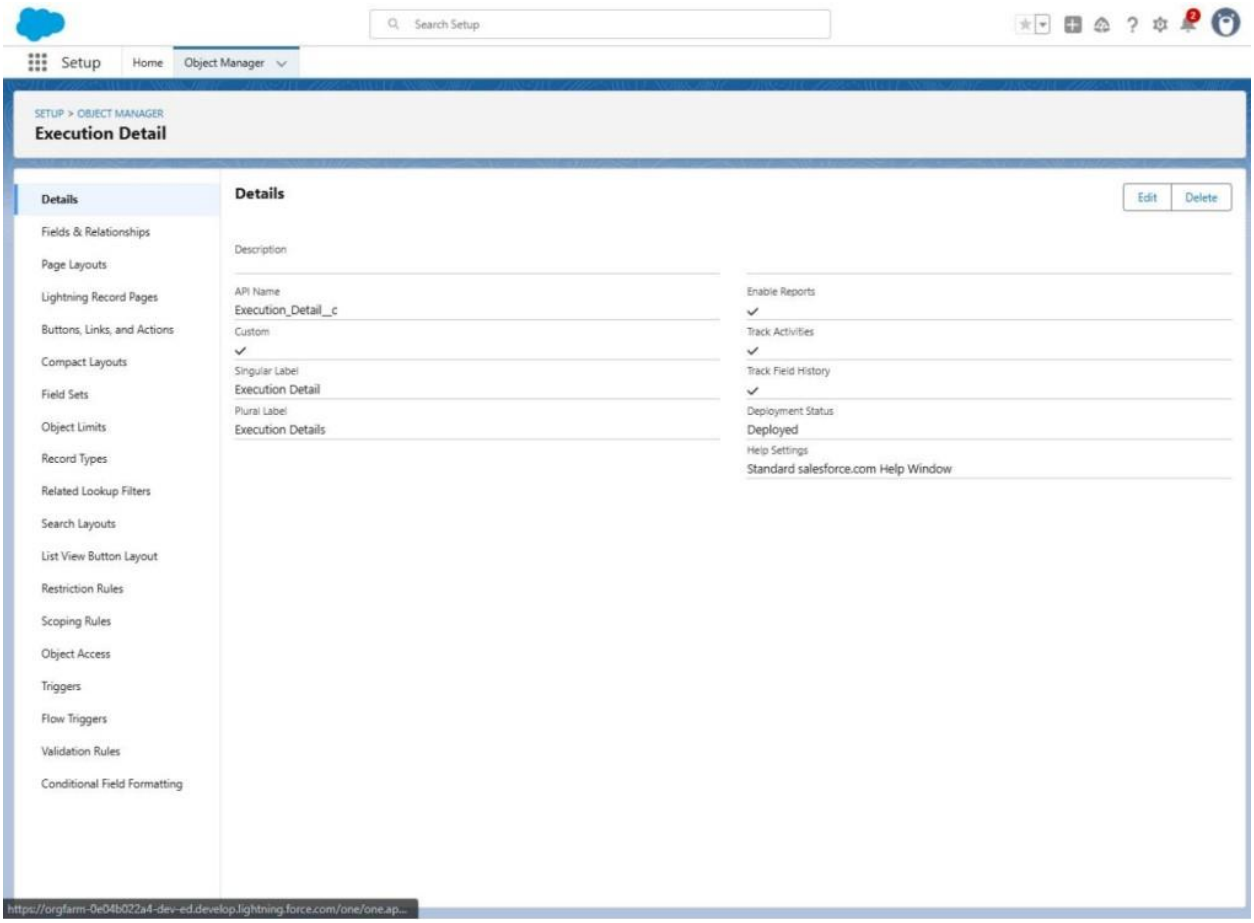
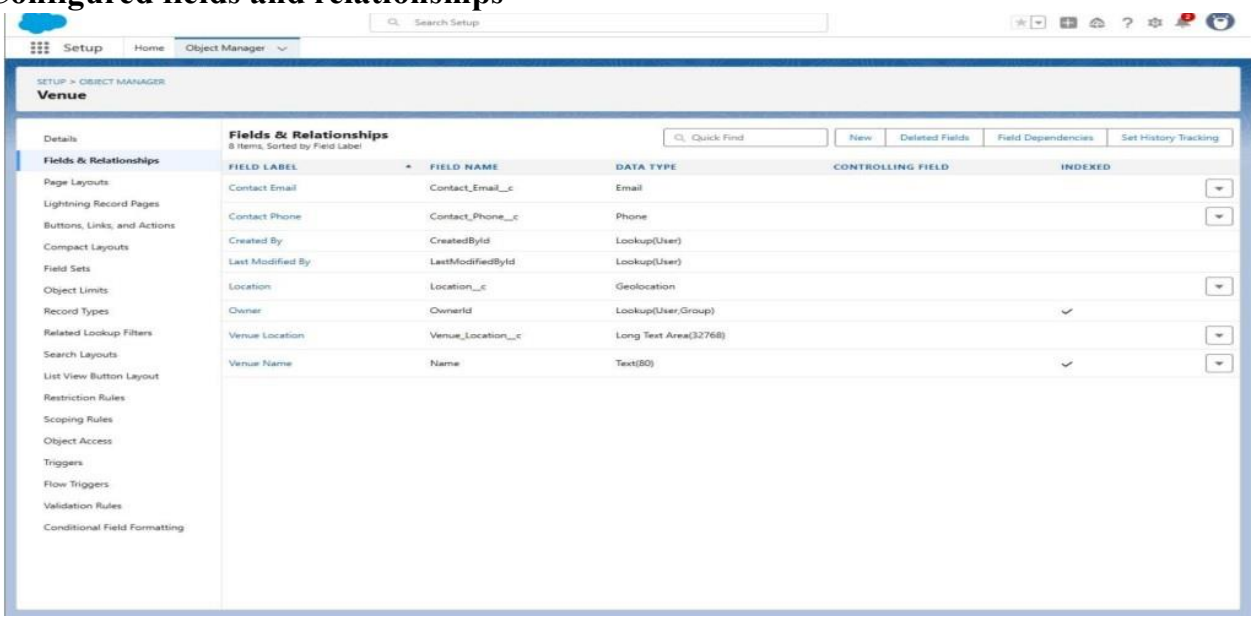
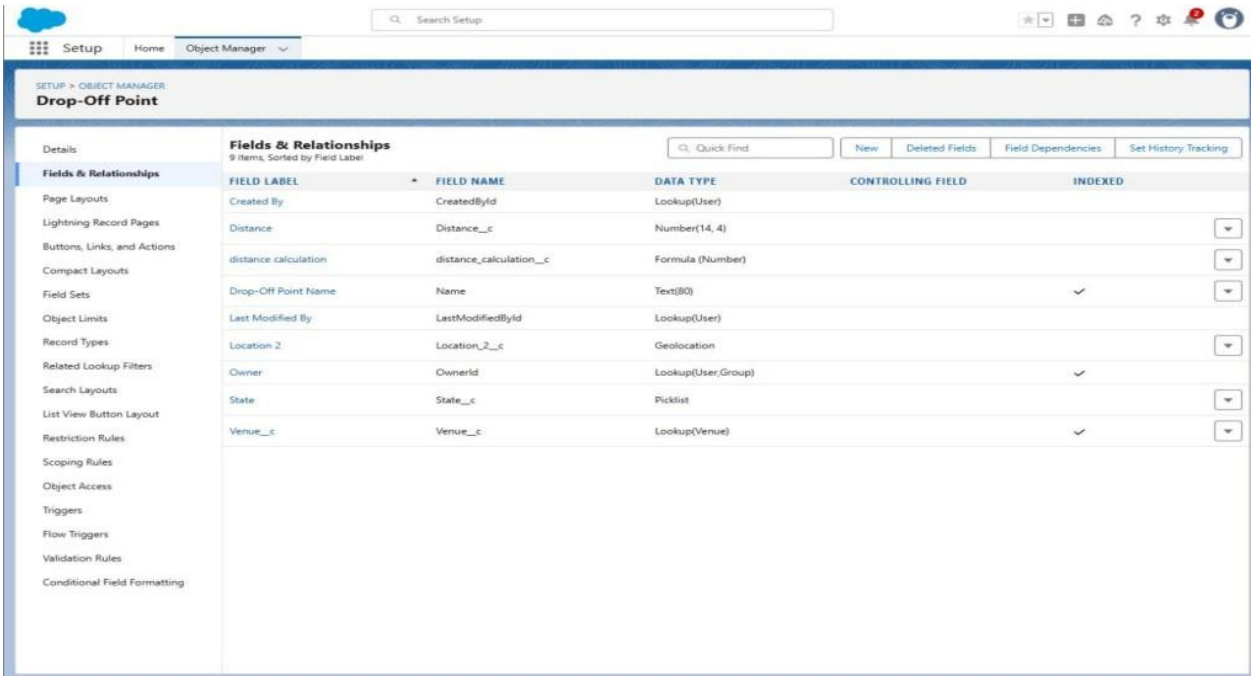
Standard salesforce.com Help Window



Configured fields and relationships

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Drop-Off Point
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
Fields & Relationships
9 Items, Sorted by Field Label
Quick Find
New
Deleted Fields
Field Dependencies
Set History Tracking
FIELD LABEL
FIELD NAME
DATA TYPE
CONTROLLING FIELD
INDEXED
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
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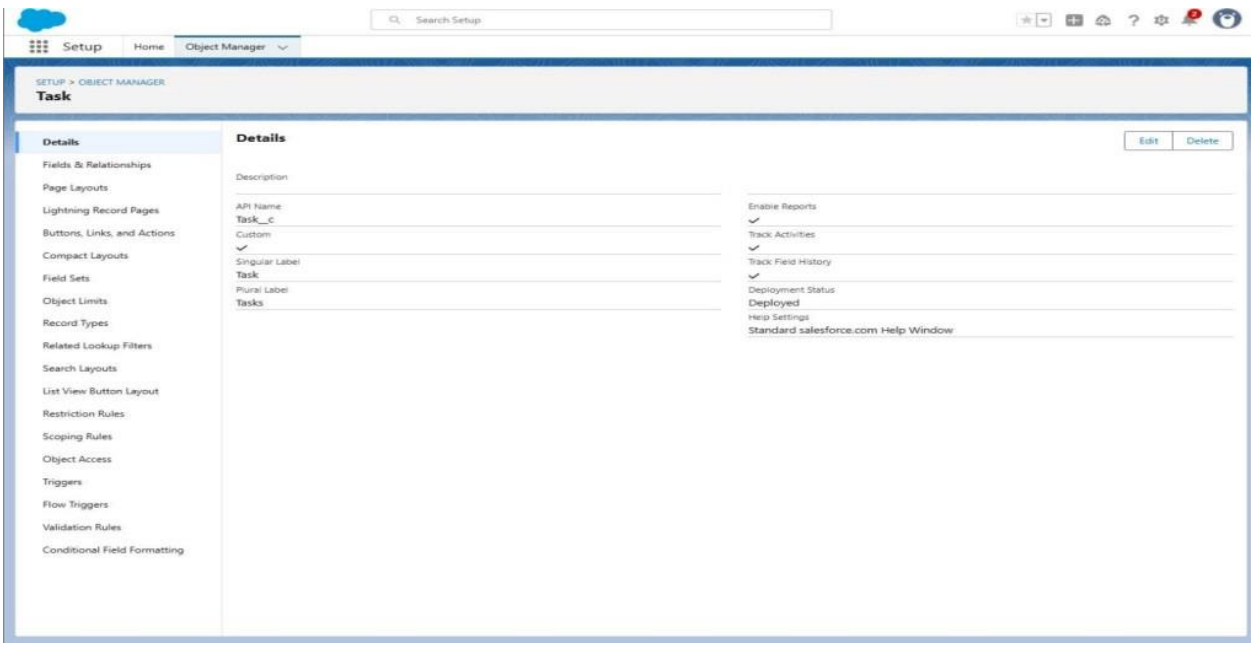
State
State__c
Picklist
Venue__c
Venue__c
Lookup(Venue)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Flow Triggers
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Conditional Field Formatting
Details
Edit
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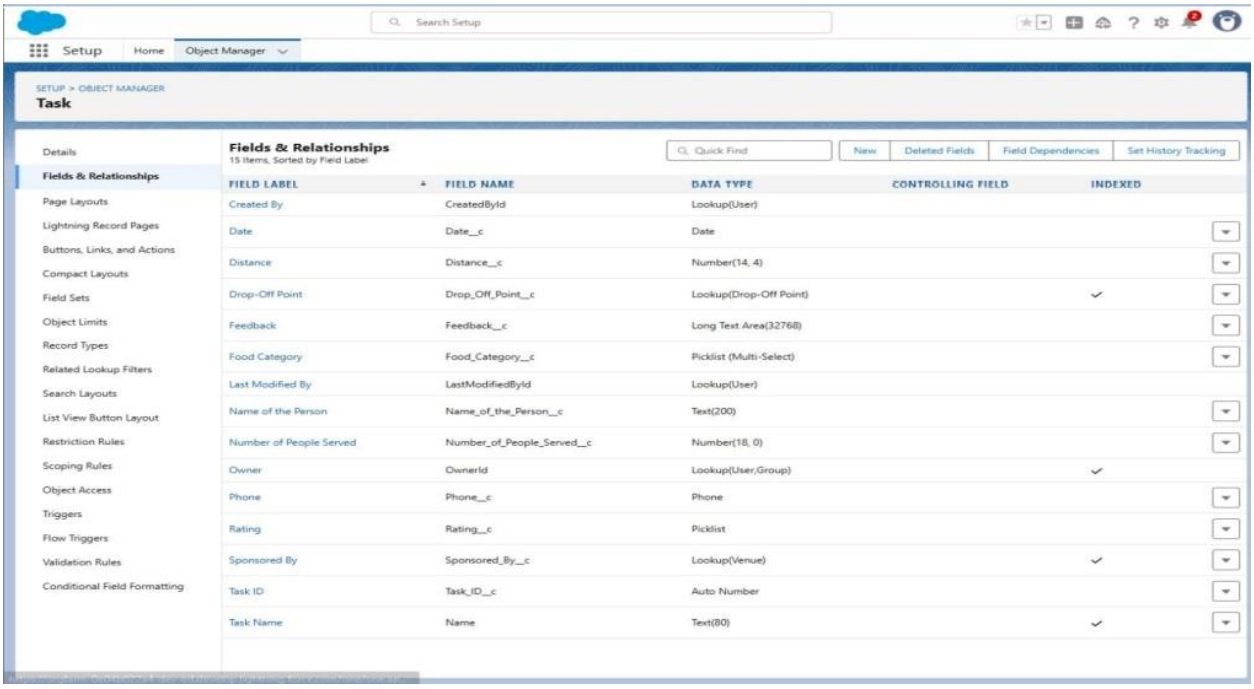
Standard salesforce.com Help Window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Field Sets
Object Limits
Record Types
Related Lookup Filters
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List View Button Layout
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Object Access
Triggers
Flow Triggers
Validation Rules
Conditional Field Formatting
Fields & Relationships
15 Items, Sorted by Field Label
Quick Find
New
Deleted Fields
Field Dependencies
Set History Tracking
FIELD LABEL
FIELD NAME
DATA TYPE
CONTROLLING FIELD
INDEXED
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CreatedById
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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
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Task_ID__c
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Task Name
Name
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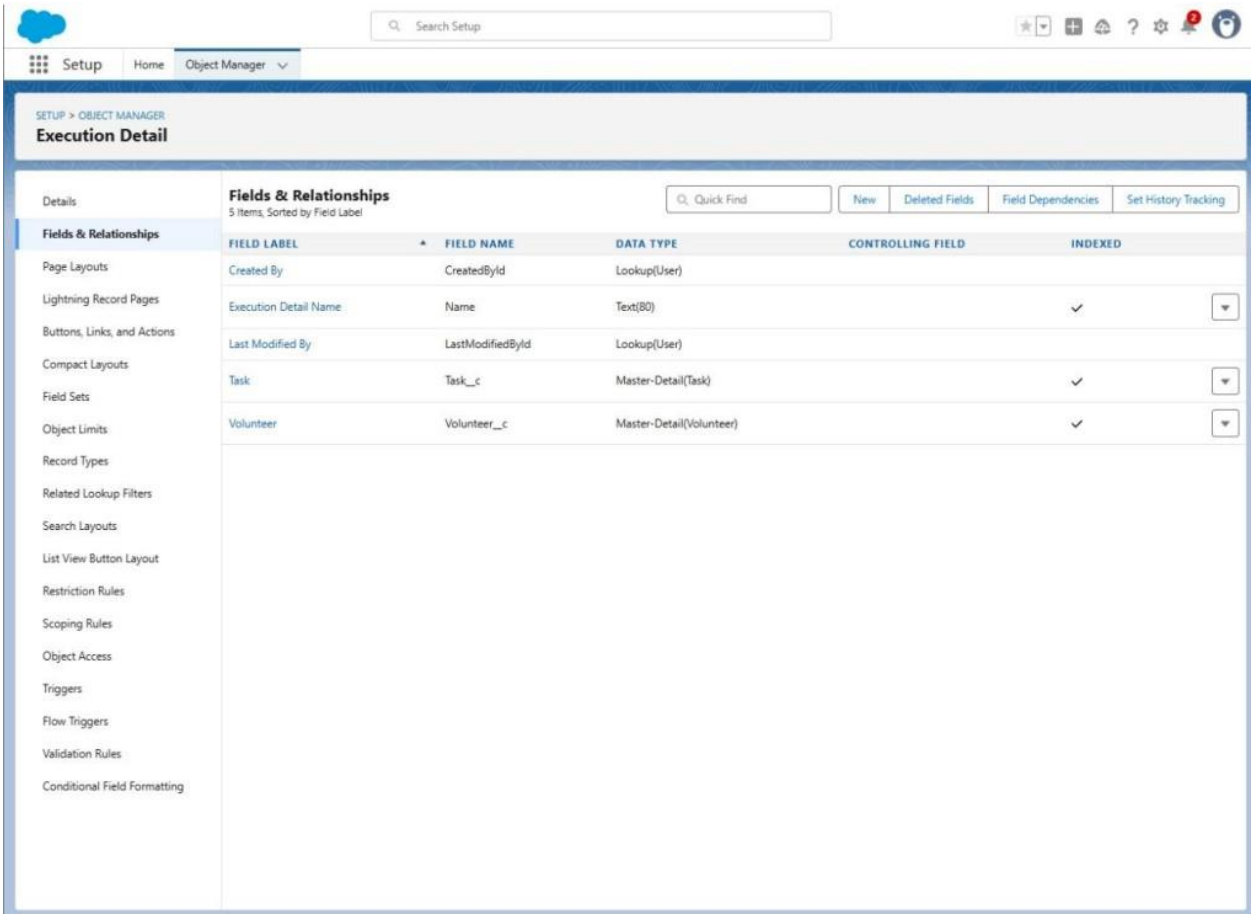
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Setup
Home
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SETUP > OBJECT MANAGER
Execution Detail
Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters
Search Layouts
List View Button Layout
Restriction Rules
Scoping Rules
Object Access
Triggers
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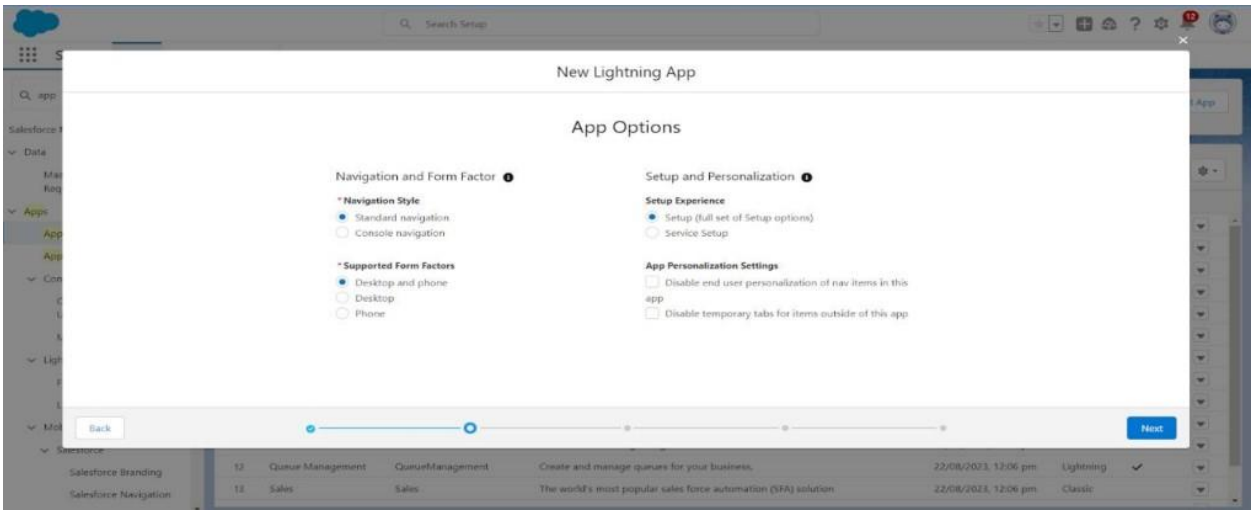
Validation Rules
Conditional Field Formatting
Fields & Relationships
5 Items, Sorted by Field Label
Quick Find
New
Deleted Fields
Field Dependencies
Set History Tracking
FIELD LABEL
FIELD NAME
DATA TYPE
CONTROLLING FIELD
INDEXED
Created By
CreatedById
Lookup(User)
Execution Detail Name
Name
Text(80)
Last Modified By
LastModifiedById
Lookup(User)
Task
Task__c
Master-Detail(Task)
Volunteer
Volunteer__c
Master-Detail(Volunteer)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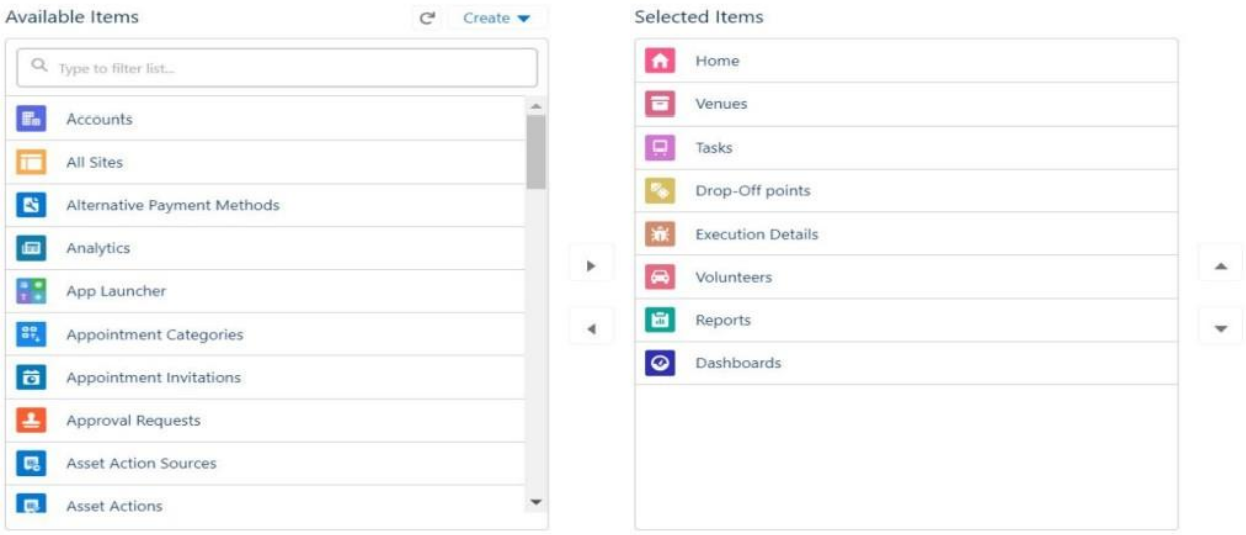
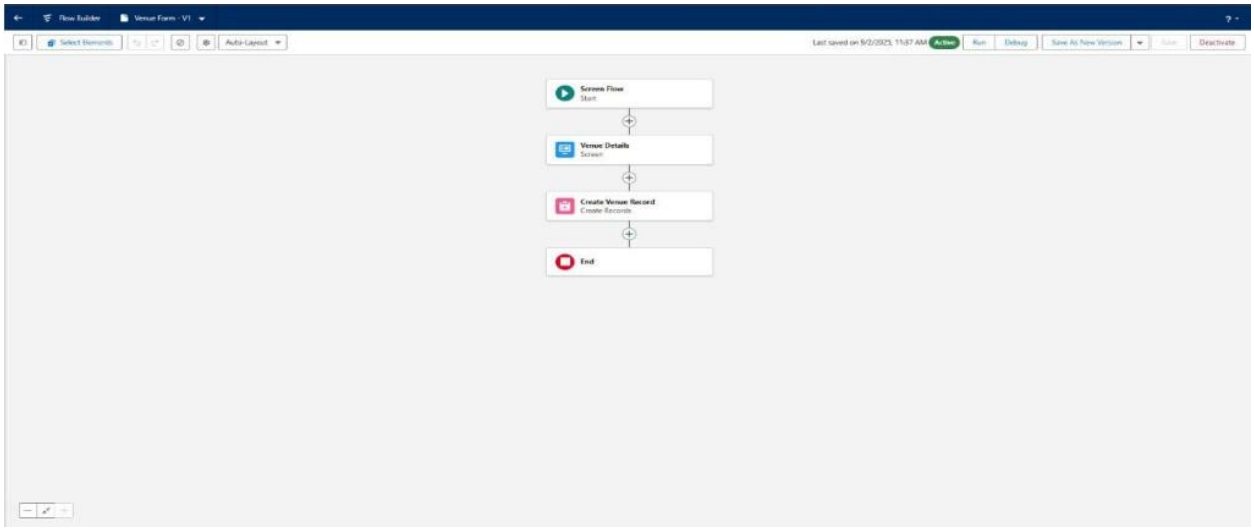
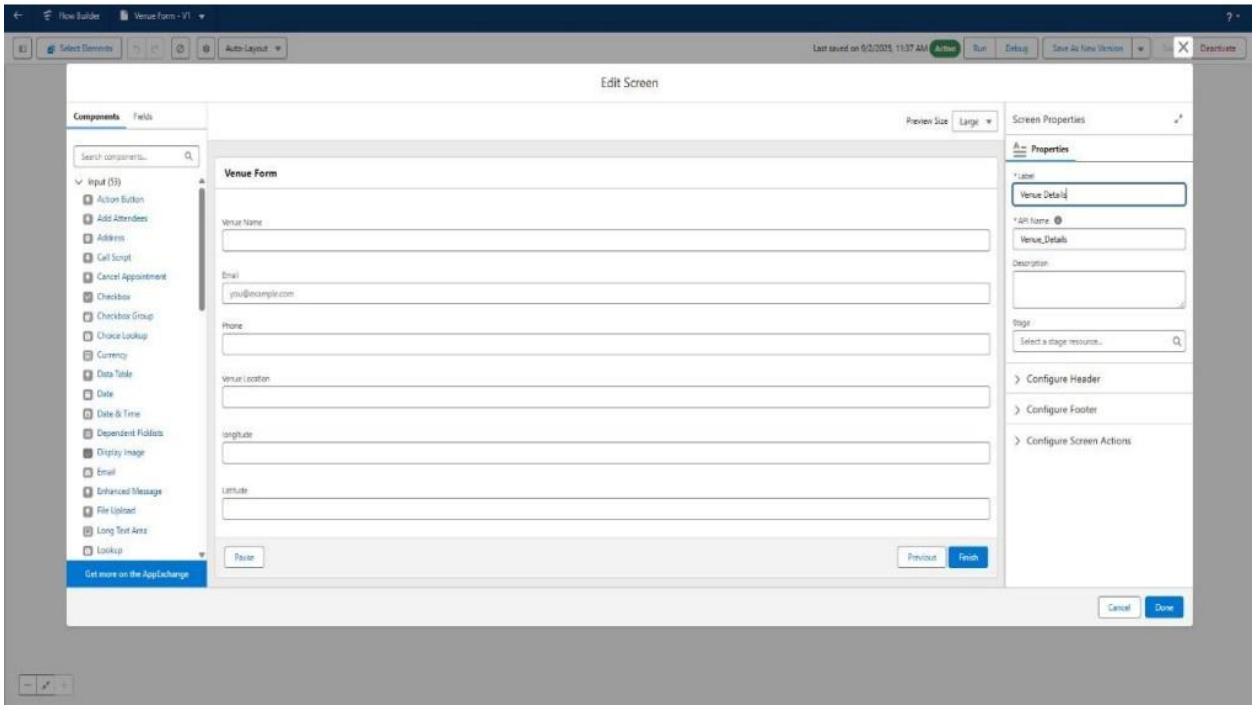
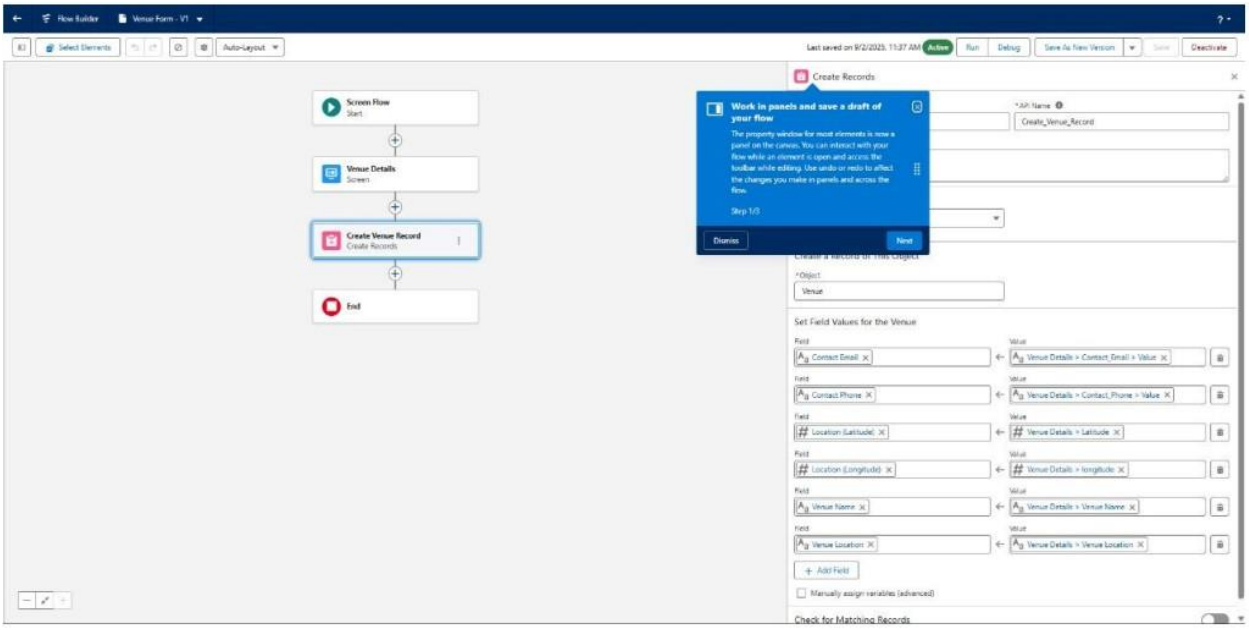
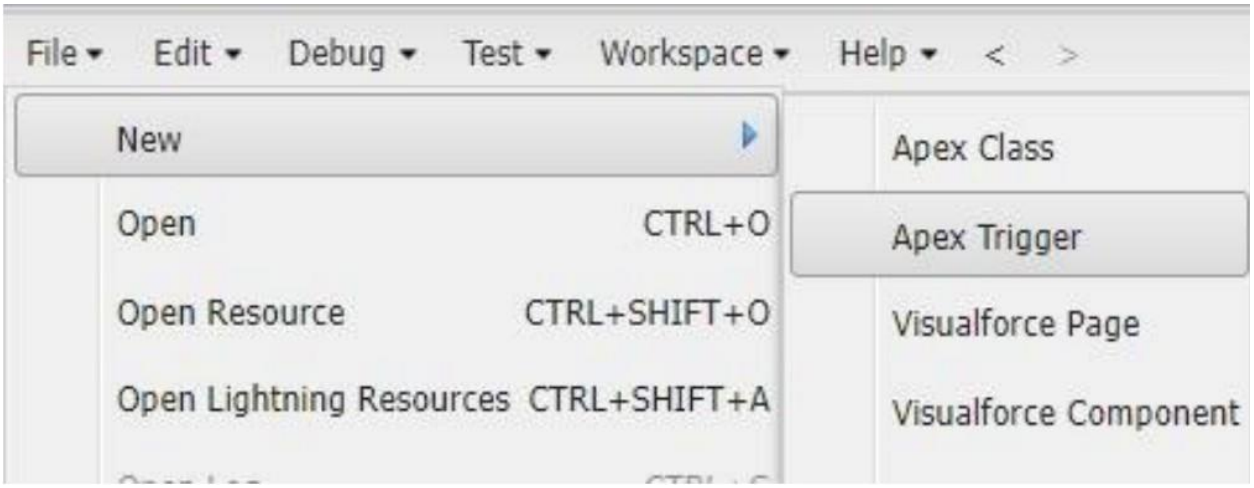
App Options
Navigation and Form Factor
* Navigation Style
Standard navigation
Console navigation
* Supported Form Factors
Desktop and phone
Desktop
Phone
Setup and Personalization
Setup Experience
Setup (full set of Setup options)
Service Setup
App Personalization Settings
Disable end user personalization of nav items in this app
Disable temporary tabs for items outside of this app
Back
Next


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


Flow Builder
Venue Form - V1
Select Elements
Auto-Layout
Active
Run
Debug
Save As New Version
Deactivate
Screen Flow
Start
Venue Details
Screen
Create Venue Record
Create Records
End


Edit Screen
Components
Fields
Venue Form
Venue Name
Email
Phone
Venue Location
Longitude
Latitude
Pause
Previous
Finish
Screen Properties
Properties
Venue Details
Venue_Details
Configure Header
Configure Footer
Configure Screen Actions
Cancel
Done


Screen Flow
Start
Venue Details
Screen
Create Venue Record
Create Records
End
Work in panels and save a draft of your flow
Dismiss
Next
Create Records
Create_Venue_Record
Venue
Set Field Values for the Venue
Add Field
Check for Matching Records


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

```
trigger DropOffTrigger on Drop_Off_point__c (before insert) {

    for(Drop_Off_point__c Drop : Trigger.new){

        Drop.Distance__c = Drop.distance_calculation__c;

    }

}
```

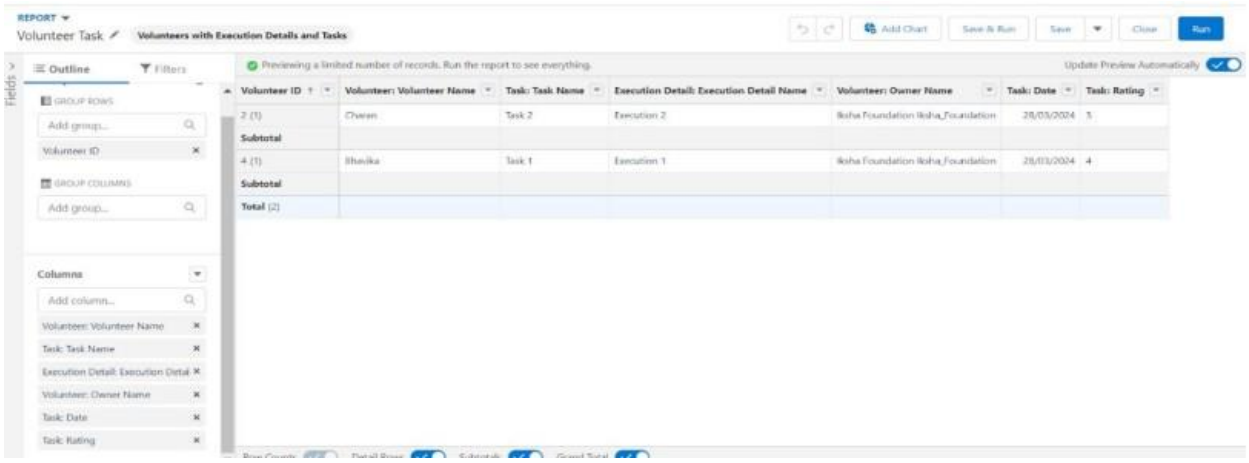
General Information

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

New

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

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
Add Chart
Save & Run
Save
Close
Run
Outline
Filters
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)
Owen
Task 2
Execution 2
Isha Foundation Isha_Foundation
28/03/2024
5
Subtotal
4 (1)
Ishvika
Task 1
Execution 1
Isha Foundation Isha_Foundation
28/03/2024
4
Subtotal
Total (2)

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	6.9030K
Paradise Garden Function Hall	Suraram Village	28.2332
Ujwala Grand	-	-

View Report (venue and Drop Off point)

Report

Volunteer Task

Use chart settings from report

Display As

X-Axis

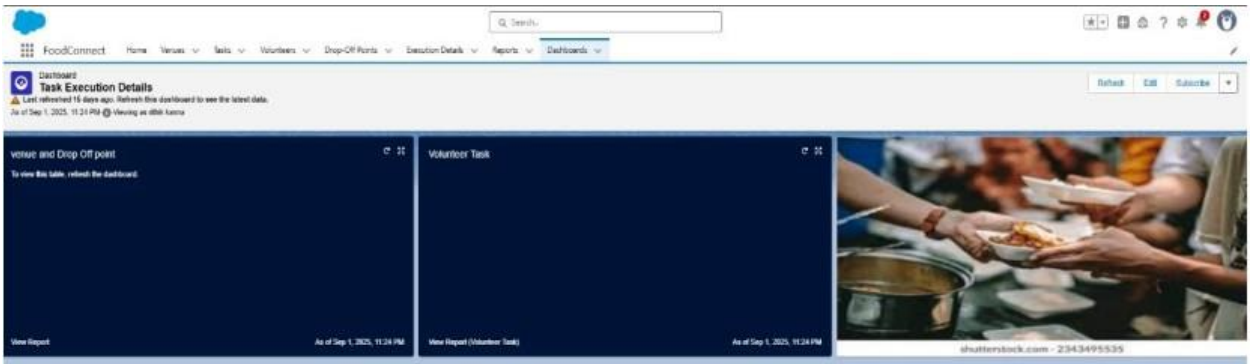
Volunteer ID

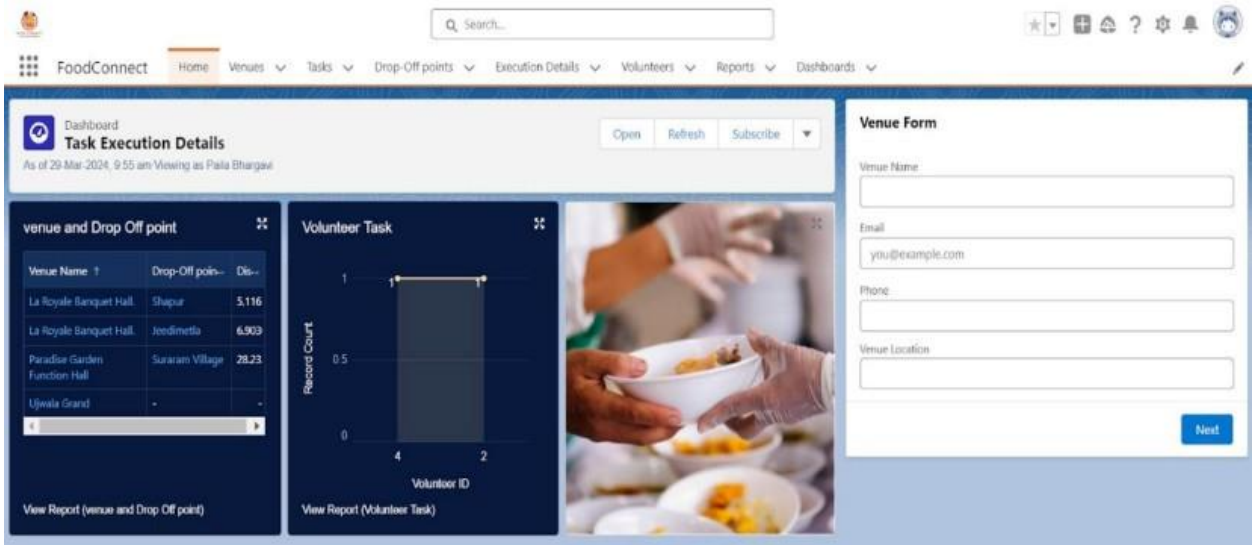
Y-Axis

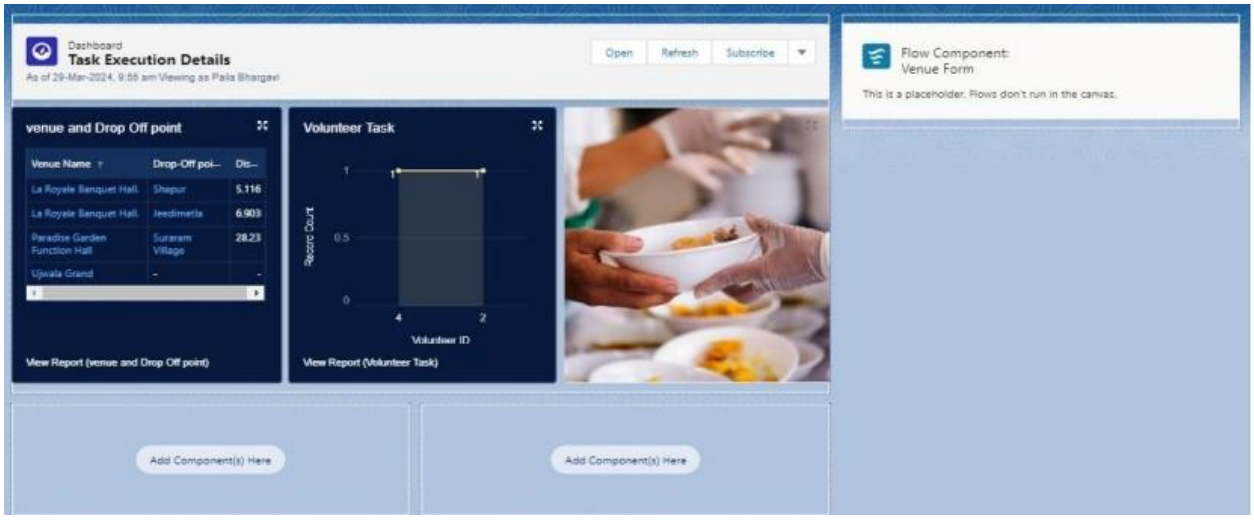
Preview

Volunteer Task

View Report (Volunteer Task)




Search...
FoodConnect
Home
Venues
Tasks
Drop-Off points
Execution Details
Volunteers
Reports
Dashboards
Dashboard
Task Execution Details
As of 29-Mar-2024, 9:55 am Viewing as Paila Bhargavi
Open
Refresh
Subscribe
venue and Drop Off point
Venue Name
Drop-Off poin...
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
Record Count
Volunteer ID
View Report (Volunteer Task)
Venue Form
Venue Name
Email
you@example.com
Phone
Venue Location
Next


Dashboard
Task Execution Details
As of 29-Mar-2024, 9:55 am Viewing as Paila 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
Record Count
Volunteer ID
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

FUTURE SCOPE OF THE LEFTOVER FOOD SUPPLY MANAGEMENT SYSTEM:

The system will evolve beyond its initial donor-to-NGO model by leveraging AI for intelligent, predictive logistics, forecasting food surpluses, and optimizing distribution routes. The ecosystem will expand significantly to include the entire supply chain, from farmers at the source to individual households at consumption. Critically, the platform will integrate with corporate CSR programs by providing verifiable impact data, and with municipal bodies to inform waste management policies. This transforms it from a simple rescue app into a vital piece of civic infrastructure, building a truly sustainable and circular economy for the community.

ADVANTAGES AND DISADVANTAGES

ADVANTAGES:

- **SOCIAL IMPACT:** Directly addresses hunger and malnutrition by redirecting surplus food to those in need.
- **ENVIRONMENTAL BENEFITS:** Significantly reduces food waste in landfills, which in turn lowers methane gas emissions, a potent greenhouse gas.
- **ECONOMIC BENEFITS:** Donors save money on waste disposal fees. Recipients reduce their food procurement costs.
- **EFFICIENCY AND SCALABILITY:** Automates the matching and logistics process, making it far more efficient and scalable than manual methods.

DISADVANTAGES:

- **FOOD SAFETY AND LIABILITY:** The primary risk. Ensuring the donated food is safe for consumption is a major challenge. A single incident could damage the platform's reputation.
- **LOGISTICAL COMPLEXITY:** Coordinating timely pickups and deliveries for perishable goods is complex and can be costly.
- **TECHNOLOGY ADOPTION:** Both donors and smaller NGOs may be hesitant or lack the resources to adopt a new technology platform.
- **INCONSISTENT SUPPLY:** The availability of surplus food can be unpredictable, making it difficult for recipients to rely on it as a primary source.
- **INITIAL INVESTMENT COST:** Developing, launching, and maintaining the technology platform requires significant initial funding.

CONCLUSION

The Leftover Food Supply Management System presents a powerful, technology-driven solution to the twin problems of food waste and hunger. By creating a transparent and efficient ecosystem, it connects the dots between surplus and scarcity. While challenges related to food safety, logistics, and user adoption exist, they can be mitigated through robust protocols, strategic partnerships, and a user-centric design. The potential social, environmental, and economic benefits overwhelmingly justify the endeavor. This system is not just about managing waste; it is about creating value, fostering community resilience, and ensuring that good food nourishes people, not landfills.

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;

}
```