

FoodConnect- To supply left over food to poors



Project Overview

Food Connect is a Salesforce-based platform designed to efficiently collect and distribute leftover food from donors (restaurants, events, households) to underprivileged communities in need. The platform leverages Salesforce's powerful CRM tools to manage donors, track food availability, and coordinate logistics for food delivery. It automates various workflows to ensure timely communication and efficient supply chain management.

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1. Introduction

Food Connect is built to address food waste while helping people in need. The project uses Salesforce as a backbone for its donor management, food inventory tracking, and delivery coordination. By incorporating the full power of Salesforce's CRM, automation, and analytics capabilities, this platform enables seamless collaboration between food donors, volunteers, and distribution networks.

2. Project Objectives

- Distribute leftover food efficiently to charities and shelters.
- Automate workflows for notifications, pickups, and deliveries.
- Track inventory and supply chain in real-time.
- Improve community outreach and reporting.

3. Key Features

- Food Pickup and Distribution Tracking: Automate requests for food pickup and ensure delivery to shelters.
- Inventory Management: Monitor food availability in real-time, ensuring efficient allocation based on demand.
- Reporting and Analytics: Create reports and dashboards on food distribution, donor contributions, and recipients.
- Mobile Access: Allow volunteers and coordinators to access the platform on mobile devices using Salesforce Mobile.

4. Salesforce Developer Setup And WorkFlow

a. Creating Developer Account

- Creating a developer org in salesforce.
1. Go to <https://developer.salesforce.com/signup>
 2. On the sign up form, enter the following details :
1. First name & Last name
 2. Email
 3. Role : Developer
 4. Company : College or Company Name
 5. County : India
 6. Postal Code : pin code
 7. Username : should be a combination of your name and company

5. System Architecture

b. Account Activation

1. Go to the inbox of the email that you used while signing up. Click on the verify account to activate your account. The email may take 5-10mins.

1.

Click on Verify Account

2. Give a password and answer a security question and click on change password.
3. Give a password and answer a security question and click on change password.
4. Then you will redirect to your salesforce setup page.

c. Creating Objects

To Navigate to Setup page:

To create an object:

1. From the setup page > Click on Object Manager > Click on Create > Click on Custom Object.
3. On Custom object defining page:
4. Enter the label name, plural label name, click on Allow reports, Allow search.

4. Click on Save.

here we create 4 objects in the projects that **venue object, drop-off point object, task object, volunteer object, execution details object**. As the same way as above mention in the screenshots you have to follow the same process for every object that you made.

e. Creating a Custom Tab

To create a Tab:(Venue)

1. Go to setup page >> type Tabs in Quick Find bar >> click on tabs >> New (under custom object tab)

1. 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 .
2. Make sure that the Append tab to users' existing personal customizations is checked.
3. Click save

f. 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.

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.

6. To Add User Profiles:

Search profiles (System administrator) in the search bar >> click on the arrow button >> save & finish.

Here I am adding my output of creating lighting app

g. Creation of Relationship fields in objects

Creation of Lookup Relationship Field on Volunteer Object :

1. Go to setup >> click on Object Manager >> type object name(Volunteer) in the search bar >> click on the object.

2. Now click on "Fields & Relationships" >> New
3. Select Master Detail relationship
4. Select the related object "Drop-Off point" and click next.

5. Field Name : Drop_Off_point
6. Field label : Auto generated
7. Next >> Next >> Save.

just like that I created all the relationships as the same way it little bit different in the modern relationship and the lookup relationship fields.

Creation of fields for the Venue object

1. Go to setup >> click on Object Manager >> type object name(Venue) in search bar >> click on the object.
2. Now click on "Fields & Relationships" >> New
3. Select Data type as a "Email" and Click on Next
4. Fill the Above as following:
 - Field Label : Contact Email
 - Field Name : Contact Email
 - Click on required check box
 - Click on Next >> Next >> Save and new.
- **To create another fields in an object:**
5. Go to setup >> click on Object Manager >> type object name(Venue) in search bar >> click on the object.
6. Now click on "Fields & Relationships" >> New
7. Select Data type as a "Phone" and Click on Next
8. Fill the Above as following:
 - Field Label : Contact Phone
 - Field Name : Contact Phone
 - Click on required check box
 - Click on Next >> Next >> Save and new.
- **To create another fields in an object:**
1. Go to setup >> click on Object Manager >> type object name(Venue) in search bar >> click on the object.
2. Now click on "Fields & Relationships" >> New
3. Select Data type as a "Geolocation" and Click on Next
4. Fill the Above as following:
 - Field Label : Location
 - Decimal Places : 4
 - Field Name : Location
 - Description : Enter the Geolocation of your Venue
 - Click on Next >> Next >> Save and new.
- To create another fields in an object:

9. Go to setup >> click on Object Manager >> type object name(Venue) in search bar
10. >> click on the object.
11. Now click on "Fields & Relationships" >> New
12. Select Data type as a "Long Text Area" and Click on Next
13. Fill the Above as following:

- Field Label : Venue Location

- • Field Name : Venue_Location
- • Click on Next >> Next >> Save and new.

• **Creation of fields for the Drop-Off point object**

- Go to setup >> click on Object Manager >> type object name(Drop-Off point) in search bar >> click on the object.
2. Now click on "Fields & Relationships" >> New
3. Select Data type as a "Geolocation" and Click on Next
- 4. Fill the Above as following:
- • Field Label : Location 2
- • Field Name : gets auto generated
- • Description : Enter the Geolocation of the Drop off Point
- • Geolocation Options : select Decimal
- • Decimal Places : 4
- • Click on Next >> Next >> Save and new.
- To create another fields in an object:
1. Go to setup >> click on Object Manager >> type object name(Drop-Off point) in
2. search bar >> click on the object.
3. Now click on "Fields & Relationships" >> New
4. Select Data type as a "Formula" and Click on Next
5. Fill the Above as following:
- • Field Label : distance calculation
- • Field Name : distance_calculation
- • Formula Return Type : Number
- • Formula Options : DISTANCE(Location_2__c , Venue__r.Location__c , 'km')
- • Click on Next >> Next >> Save and new.

To create another fields in an object:

5. Go to setup >> click on Object Manager >> type object name(Drop-Off point) in
6. search bar >> click on the object.
7. Now click on "Fields & Relationships" >> New
8. Select Data type as a "Picklist" and Click on Next
9. Fill the Above as following:
- • Field Label : State
- • Field Name : State
- • Enter values, with each value separated by a new line :

- Andhra Pradesh Arunachal Pradesh Assam
Bihar Chhattisgarh
- Goa
Gujarat
Haryana Himachal Pradesh Jharkhand Karnataka
Kerala
Maharashtra
Madhya Pradesh
Manipur
Meghalaya
Mizoram
Nagaland
Odisha
Punjab
Rajasthan
Sikkim
Tamil Nadu
Tripura
Telangana
Uttar Pradesh
Uttarakhand
West Bengal
Andaman & Nicobar (UT)
Chandigarh (UT)
- Dadra & Nagar Haveli and Daman & Diu (UT) Delhi [National Capital Territory (NCT)] Jammu & Kashmir (UT)
Ladakh (UT)
Lakshadweep (UT)
Puducherry (UT)
 - Click on required check box
 - Click on Next >> Next >> Save and new.
 - To create another fields in an object:
 - 9. Go to setup >> click on Object Manager >> type object name(Task) in search bar >>
 - 10. click on the object.
 - 11. Now click on “Fields & Relationships” >> New
 - 12. Select Data type as a “Number” and Click on Next
 - 13. Fill the Above as following:
 - Field Label : Distance
 - Field Name : Distance
 - Length : 14
 - Decimal Places : 4
 - Click on required check box
 - Click on Next >> Next >> Save and new.

• Creation of fields for the Task object

- Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
- 2. Now click on "Fields & Relationships" >> New
- 3. Select Data type as a "Auto Number" and Click on Next
- 4. Fill the Above as following:
- • Field Label : Task ID
- • Display Format : TASK-{0}
- • Starting Number : 1
- • Field Name : gets auto generated
- • Click on required check box
- • Click on Next >> Next >> Save and new.
- To create another fields in an object:
- 1. Go to setup >> click on Object Manager >> type object name(Task) in search bar >>
- 2. click on the object.
- 3. Now click on "Fields & Relationships" >> New
- 4. Select Data type as a "Date" and Click on Next
- 5. Fill the Above as following:
- • Field Label : Date
- • Field Name : Date
- • Click on required check box
- • Click on Next >> Next >> Save and new.
- To create another fields in an object:
- 5. Go to setup >> click on Object Manager >> type object name(Task) in search bar >>
- 6. click on the object.
- 7. Now click on "Fields & Relationships" >> New
- 8. Select Data type as a "Picklist (Multi-Select)" and Click on Next
- 9. Fill the Above as following:
- • Field Label : Food Category
- • Field Name : Food Category
- • Enter values, with each value separated by a new line :
- Veg Non-Veg

Salad

Snack

- • Click on required check box
- • Click on Next >> Next >> Save and new.
- To create another fields in an object:
- 9. Go to setup >> click on Object Manager >> type object name(Task) in search bar >>
- 10. click on the object.
- 11. Now click on "Fields & Relationships" >> New
- 12. Select Data type as a "Number" and Click on Next

13. Fill the Above as following:
 - • Field Label : Number of People Served
 - • Field Name : Number_of_People_Served
 - • Click on required check box
 - • Click on Next >> Next >> Save and new.
 - To create another fields in an object:
13. Go to setup >> click on Object Manager >> type object name(Task) in search bar >>
14. click on the object.
15. Now click on “Fields & Relationships” >> New
16. Select Data type as a “Text” and Click on Next
17. Fill the Above as following:
 - • Field Label : Name of the Person
 - • Field Name : Name_of_the_Person
 - • Click on Next >> Next >> Save and new.
 - To create another fields in an object:
17. Go to setup >> click on Object Manager >> type object name(Task) in search bar >>
18. click on the object.
19. Now click on “Fields & Relationships” >> New
20. Select Data type as a “Phone” and Click on Next
21. Fill the Above as following:
 - • Field Label : Phone
 - • Field Name : Phone
 - • Click on Next >> Next >> Save and new.
 - To create another fields in an object:
21. Go to setup >> click on Object Manager >> type object name(Task) in search bar >>
click on the object.
22. Now click on “Fields & Relationships” >> New
23. Select Data type as a “Pick List” and Click on Next
24. Fill the Above as following:
 - • Field Label : Rating
 - • Field Name : Rating
 - • Enter values, with each value separated by a new line :
 - 1 2 3 4 5
 - • Click on Next >> Next >> Save and new.
 - To create another fields in an object:
25. Go to setup >> click on Object Manager >> type object name(Task) in search bar >>
26. click on the object.
27. Now click on “Fields & Relationships” >> New
28. Select Data type as a “Long Text Area” and Click on Next
29. Fill the Above as following:
 - • Field Label : Feedback
 - • Field Name : Feedback

- Click on Next >> Next >> Save and

• **Creation of fields for the Volunteer object**

- 1. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
- 2. Now click on “Fields & Relationships” >> New
- 3. Select Data type as a “Auto Number” and Click on Next
- 4. Fill the Above as following:
 - Field Label : Volunteer ID
 - Field Name : gets auto generated
 - Click on required check box
 - Click on Next >> Next >> Save and new.
 - Click on Next >> Next >> Save and new.

To create another fields in an object:

1. Go to setup >> click on Object Manager >> type object name(Volunteer) in search
2. bar >> click on the object.
3. Now click on “Fields & Relationships” >> New
4. Select Data type as a “Picklist” and Click on Next
5. Fill the Above as following:
 - Field Label : Gender
 - Field Name : Gender
 - Enter values, with each value separated by a new line :
 - Female
 - Male
 - Click on Next >> Next >> Save and new.
6. To create another fields in an object:
7. Go to setup >> click on Object Manager >> type object name(Volunteer) in search
8. bar >> click on the object.
9. Now click on “Fields & Relationships” >> New
10. Select Data type as a “Date” and Click on Next
11. Fill the Above as following:
 - Field Label : Available On
 - Field Name : Available On
 - Click on required check box
 - Click on Next >> Next >> Save and new.
12. To create another fields in an object:
13. Go to setup >> click on Object Manager >> type object name(Volunteer) in search
14. bar >> click on the object.
15. Now click on “Fields & Relationships” >> New
16. Select Data type as a “Number” and Click on Next
17. Fill the Above as following:
 - Field Label : Age

- • Field Name : Age
- • Click on required check box
- • Click on Next >> Next>> Save and new.
- To create another fields in an object:
 13. Go to setup >> click on Object Manager >> type object name(Volunteer) in search
 - bar >> click on the object.
- 14. Now click on “Fields & Relationships” >> New
- 15. Select Data type as a “Email” and Click on Next
- 16. Fill the Above as following:
 - • Field Label : Email
 - • Field Name : Email
 - • Click on required check box
 - • Click on Next>> Next >> Save and new.
 - To create another fields in an object:
- 17. Go to setup >> click on Object Manager >> type object name(Volunteer) in search
- 18. bar >> click on the object.
- 19. Now click on “Fields & Relationships” >> New
- 20. Select Data type as a “Number” and Click on Next
- 21. Fill the Above as following:
 - • Field Label : Contact Number
 - • Field Name : Contact_Number
 - • Click on required check box
 - • Click on Next >> Next >> Save and new.
 - To create another fields in an object:
- 21. Go to setup >> click on Object Manager >> type object name(Volunteer) in search
- 22. bar >> click on the object.
- 23. Now click on “Fields & Relationships” >> New
- 24. Select Data type as a “Text Area (Long)” and Click on Next
- 25. Fill the Above as following:
 - • Field Label : Address
 - • Field Name : Address
 - • Click on Next >> Next >> Save and new.
 - To create another fields in an object:
- 25. Go to setup >> click on Object Manager >> type object name(Volunteer) in search
- 26. bar >> click on the object.
- 27. Now click on “Fields & Relationships” >> New
- 28. Select Data type as a “Date” and Click on Next
- 29. Fill the Above as following:
 - • Field Label : Date of Birth
 - • Field Name : Date_of_Birth
 - • Click on Next >> Next >> Save and new.

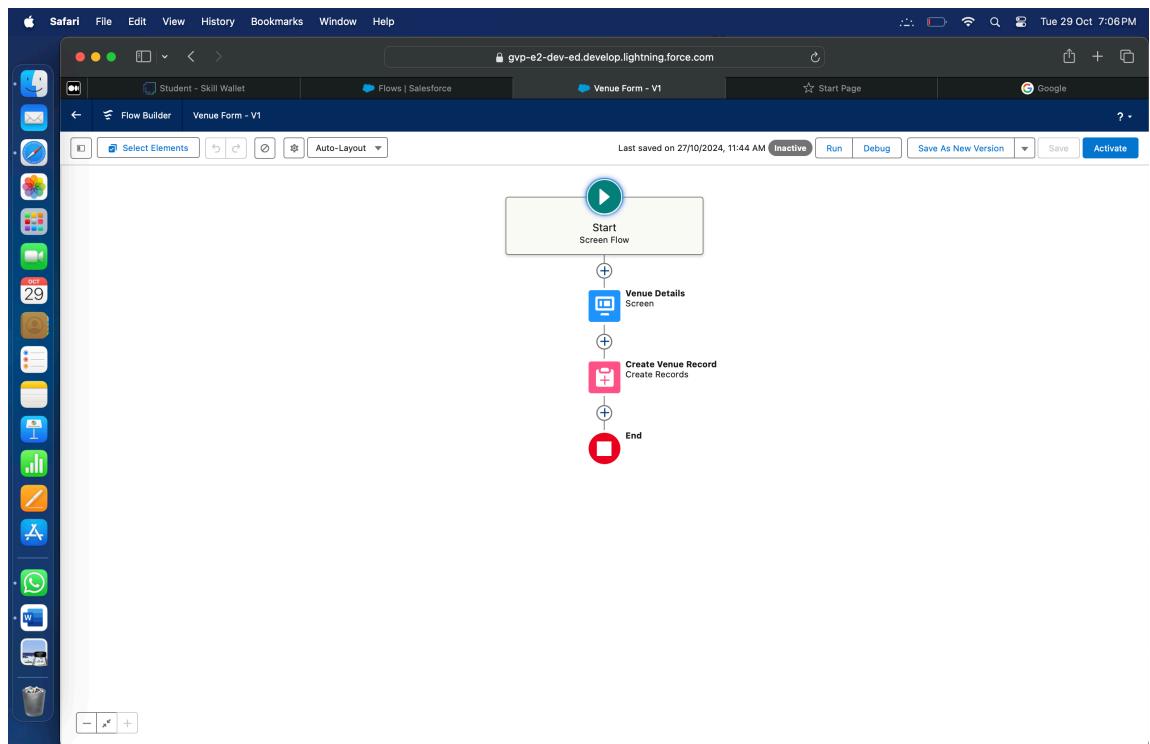
Creation of fields for the Execution Details object

1. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
2. Now click on "Fields & Relationships" >> New
3. Select Data type as a "Auto Number" and Click on Next
4. Fill the Above as following:

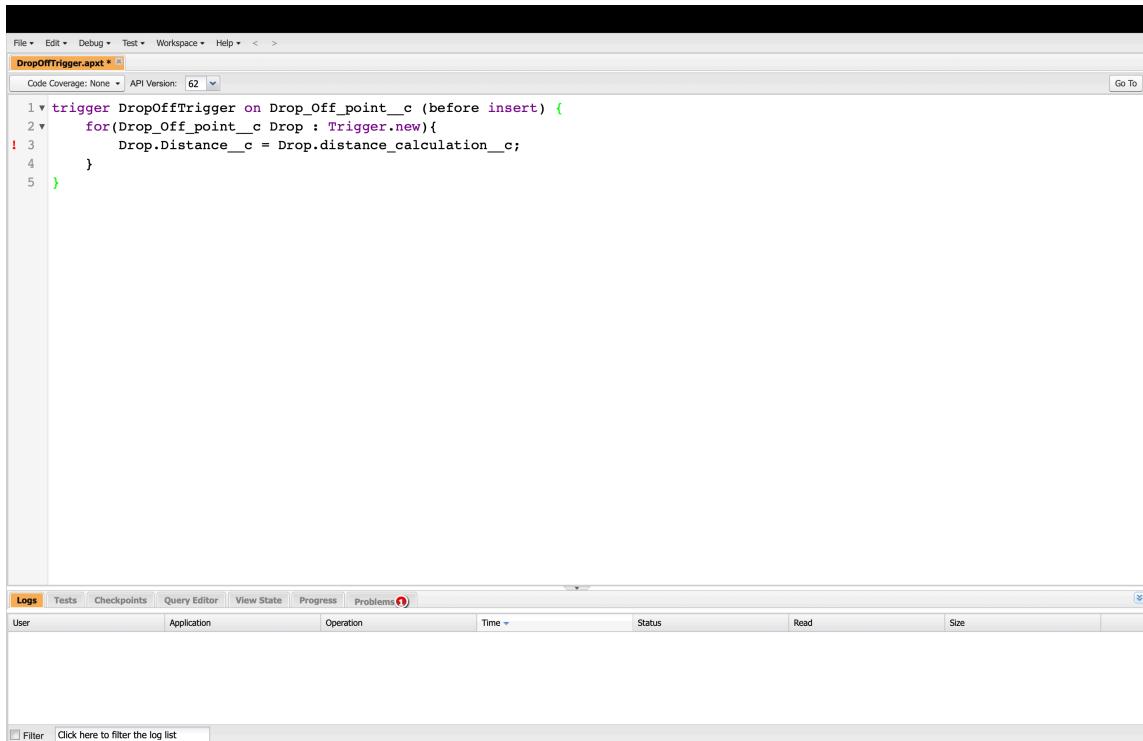
- • Field Label : Execution ID
- • Field Name : gets auto generated
- • Click on required check box
- • Click on Next >> Next >> Save and new.

• h. Create Flow to create a record in Venue object

- the flow should look like this---



i. Create a Trigger



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

the code should look like this the trigger has created.

j. Creation of Users and profile

Action	Full Name	Alias	Username	Role	Active	Profile
Edit	Chatter Expert	Chatter	chatty_00one000004zmd42ao.bhreojg27@chatter.salesforce.com		<input checked="" type="checkbox"/>	Chatter Free User
Edit	Isha_Foundation_Isha_Foundation	iks	ikshik@yvo.yvo		<input checked="" type="checkbox"/>	NGOs Profile
Edit	NSS_NSS_NSS	nss	nss@yvo.yvo		<input checked="" type="checkbox"/>	NGOs Profile
Edit	Street_Cause_StreetCause	stre	street@yvo.yvo		<input checked="" type="checkbox"/>	NGOs Profile
Edit	User_Integration	integ	integration@000ms000004zmd42ao.com		<input checked="" type="checkbox"/>	Analytics Cloud Integration User
Edit	User_Security	sec	insinhasecurity@000ms000004zmd42ao.com		<input checked="" type="checkbox"/>	Analytics Cloud Security User
Edit	vseem_akhil	avvees	avvih@2001.yvo		<input checked="" type="checkbox"/>	System Administrator

here we have to create a NGOs profile and under this profile we have to create a users that are going to be the NGOs foundations

here I created a three foundation of my own.

ishika foundations

NSS

Street cause

k. Creation of Public Group 1,2,3

The screenshot shows the Salesforce Setup interface with the search bar set to "publ". The left sidebar is expanded, showing the "Users" section with "Public Groups" selected. The main content area is titled "Public Groups" and contains a table listing three groups:

Action	Label	Group Name	Created By	Created Date
Edit Del	Isha	Isha	vesam_akhil	27/10/2024, 12:34 pm
Edit Del	NSS	NSS	vesam_akhil	27/10/2024, 12:35 pm
Edit Del	StreetCause	StreetCause	vesam_akhil	27/10/2024, 12:36 pm

Creation of Report on Venue with DropOff with Volunteer

The screenshot shows the Salesforce Setup interface for creating a custom report type. The URL in the browser is gvp-e2-dev-ed.lightning.force.com. The page title is "Report Types | Salesforce".

Custom Report Type: **Venue with DropOff with Volunteer**

Custom Report Type Definition:

Report Type Label	Venue with DropOff with Volunteer	Report Type Category	Other Reports
Report Type Name	Venue_with_DropOff_with_Volunteer	Deployment Status	Deployed
Description	Venue with DropOff with Volunteer	Modified By	akhil veesam 28/10/2024, 9:00 pm
Created By	akhil veesam 28/10/2024, 9:00 pm		

Object Relationships: Custom Report Type: Venue with DropOff with Volunteer – Salesforce - Developer Edition

Fields Available for Reports:

Source	Selected Fields
venues	14
Activities	35
Assigned To	69

Creation of Report on Volunteers with Execution Details and Tasks

The screenshot shows the Salesforce Setup interface for creating a custom report type. The report type is titled "Volunteers with Execution Details and Tasks". The "Custom Report Type Definition" section shows the following details:

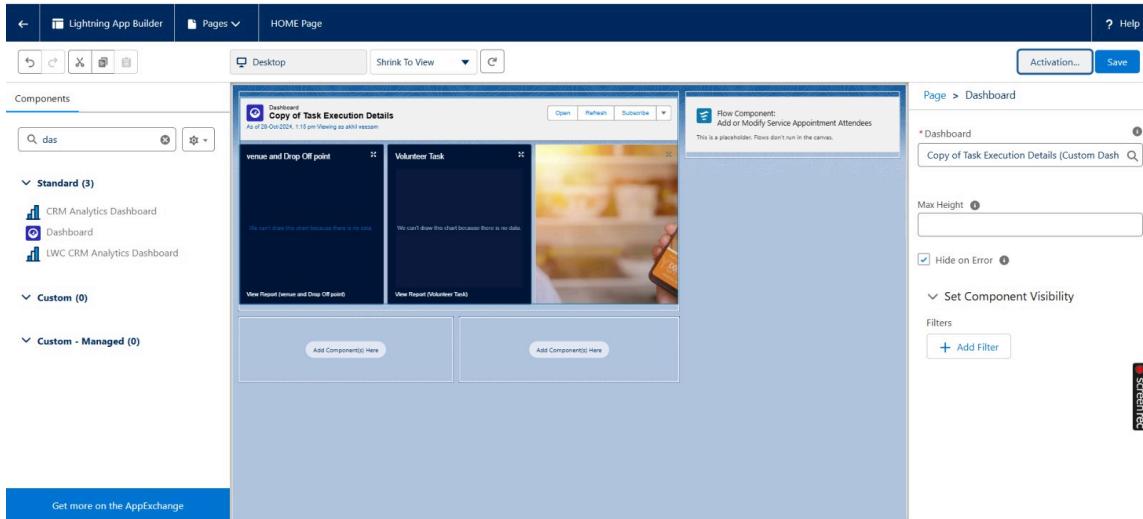
Report Type Label	Volunteers with Execution Details and Tasks	Report Type Category	Other Reports
Report Type Name	Volunteers_with_Execution_Details_and_Tasks	Deployment Status	Deployed
Description	Volunteers with Execution Details and Tasks	Created By	ashil veesam 29/10/2024, 11:55 am
Modified By	ashil veesam	Modified	29/10/2024, 11:55 am

The "Object Relationships" section shows a Venn diagram with two overlapping circles labeled "A" and "B", indicating related records. Below the diagram, it says "Volunteers (A) with or without related records from Duplicate Record Items (B)".

The "Fields Available for Reports" section shows the following configuration:

Source	Custom Report Type: Volunteers with Execution Details and Tasks - Salesforce - Developer Edition	Selected Fields
Volunteers		15
Duplicate Record Items		7

I. Dashboards



m. Creation of sharing rules

Action	Criteria	Shared With	Access Level
Edit Del	Drop-Off Point: Distance LESS THAN 15	Group: iksha	Read Only
Edit Del	(Drop-Off Point: Distance GREATER THAN 15) AND (Drop-Off Point: Distance LESS OR EQUAL 30)	Group: NSS	Read Only
Edit Del	Drop-Off Point: Distance GREATER THAN 30	Group: StreetCause	Read Only

The screenshot shows the Salesforce Lightning App Builder interface. On the left, there is a navigation sidebar with various categories like Setup, Home, Object Manager, and Lightning Experience Transition Assistant. Under the 'Lightning Usage' section, 'Lightning Bolt' is expanded, showing 'Lightning Bolt' and 'Lightning Bolt Solutions'. Under 'User Interface', 'Lightning App Builder' is selected, which is highlighted in yellow. The main content area is titled 'Lightning App Builder' and contains a heading: 'The Lightning App Builder provides an easy to use graphical interface for creating custom Lightning pages for Salesforce Lightning Experience and mobile app. Lightning pages are built using Lightning components—compact, configurable, and reusable elements that you can drag and drop into regions of the page in the Lightning App Builder.' Below this is a table titled 'Lightning Pages' with one row: 'HOME Page'. The table includes columns for Action, Label, Name, Namespace Prefix, Description, Type, Created By, and Last Modified By. The 'Label' column shows 'HOME Page'. The 'Type' column shows 'Home Page'. The 'Created By' and 'Last Modified By' columns both show 'akhil, 29/10/2024, 5:42 pm'. At the bottom of the page, there is a message: 'Didn't find what you're looking for? Search...'. The URL in the browser bar is gvp-e2-dev-ed.develop.lightning.force.com.

The screenshot shows the FoodConnect application interface. At the top, there is a navigation bar with links for Home, venues, Tasks, Drop-Off Points, Execution Details, Volunteers, Reports, and Dashboards. The main content area has a title 'Copy of Task Execution Details' and a sub-section 'As of 29-Oct-2024, 6:09 pm Viewing as akhil veesam'. There are two cards: 'venue and Drop Off point' and 'Volunteer Task'. The 'venue and Drop Off point' card shows a table with columns 'venue Name', 'Subject', and 'Location'. The 'Subject' and 'Location' columns have dropdown menus. The 'Volunteer Task' card shows a chart titled 'Record Count' with a single data point at 1. Below the chart, it says 'a04NS000000GoNR' and 'Volunteer ID'. To the right of these cards, there is a large image of a hand holding a smartphone displaying a timer. A text overlay on the right side of the screen states: 'We can't launch this flow because of a variable error. Send this error message to your admin. The value null is being provided for variable emailTemplate but isn't compatible with the variable's data type (String). Check the places where you implemented the flow – such as through a Lightning page or a custom button – and make sure that all provided values are compatible with the variables' data types.' The URL in the browser bar is <https://workdrive.zohoexternal.com/writer/open/0r424800e999...e585bae?authId=%7B%22linkId%22%3A%225k2wApaAfel-LYmlU%22%7D>.

6. OUTPUT SCREENSHOTS

The screenshot shows a Salesforce application interface for 'FoodConnect'. At the top, there's a navigation bar with links like Home, venues, Tasks, Drop-Off Points, Execution Details, Volunteers, Reports, and Dashboards. Below the navigation is a search bar and a toolbar with icons for star, plus, refresh, and help.

The main content area has two tabs open:

- venue and Drop Off point**: A table with columns 'venue Name' (sorted), 'Subject', and 'Location'. One row is visible with 'venue Name' set to 'food'.
- Volunteer Task**: A table with columns 'Record Count' (set to 1) and 'Volunteer ID' (set to 'a04NS000000GoNR').

To the right of these tabs, there's a message: "We can't launch this flow because of a variable error. Send this error message to your admin. The value null is being provided for variable emailTemplate but isn't compatible with the variable's data type (String). Check the places where you implemented the flow – such as through a Lightning page or a custom button – and make sure that all provided values are compatible with the variables' data types."

At the bottom left, there are links: 'View Report (venue and Drop Off point)' and 'View Report (Volunteer Task)'. On the right side of the interface, there's a blurred image of a person holding a smartphone displaying a food-related app.

THE FINAL OUTPUT OF THE APP SHOULD LOOK LIKE THIS AFTER FOLLOWING ALL THE STEPS CORRECTLY AS YOU CAN SEE MY OUTPUT LOOKS CORRECT AS THE OUTPUT SHOULD BE LIKE THIS

7. Vedio Demonstration

Here I am sharing my github link as well as the link where the vedio also provided in which you can see the how it looks and works.. <https://drive.google.com/file/d/1uuuvrVrZmWBqGp8VKcOsUZMfYEbArlh/view?usp=drivesdk>

8. Conclusion

By leveraging the Salesforce platform, the project successfully established a streamlined and transparent system for managing surplus food donations. Through efficient coordination with volunteers and timely delivery to beneficiaries, the project effectively addressed food insecurity while maximizing the utilization of available resources.

Food Connect aims to bridge the gap between surplus food and those in need by utilizing Salesforce to streamline and automate the process. The project showcases the flexibility of Salesforce's platform in handling non-profit workflows and creating real-world impact through technology.