FoodConnect -

To Supply Left Over Food To Poor

Project Overview :

Food Connect is a platform built on Salesforce that helps collect and distribute leftover food from donors like restaurants, events, and households to communities in need. By using Salesforce's powerful CRM tools, Food Connect manages donors, tracks food availability, and coordinates logistics for food delivery. The platform automates various workflows to ensure timely communication and efficient supply chain management.

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1. Introduction :

Food Connect tackles food waste and helps those in need. It uses Salesforce to manage donors, track food inventory, and coordinate deliveries. By harnessing Salesforce's CRM, automation, and analytics, Food Connect makes it easy for food donors, volunteers, and distribution networks to work together seamlessly.

2. Project Objectives :

- Efficiently distribute leftover food to charities and shelters.
- Automate notifications, pickups, and deliveries to streamline the process.
- Track inventory and supply chain in real-time for better management.
- Enhance community outreach and reporting efforts.

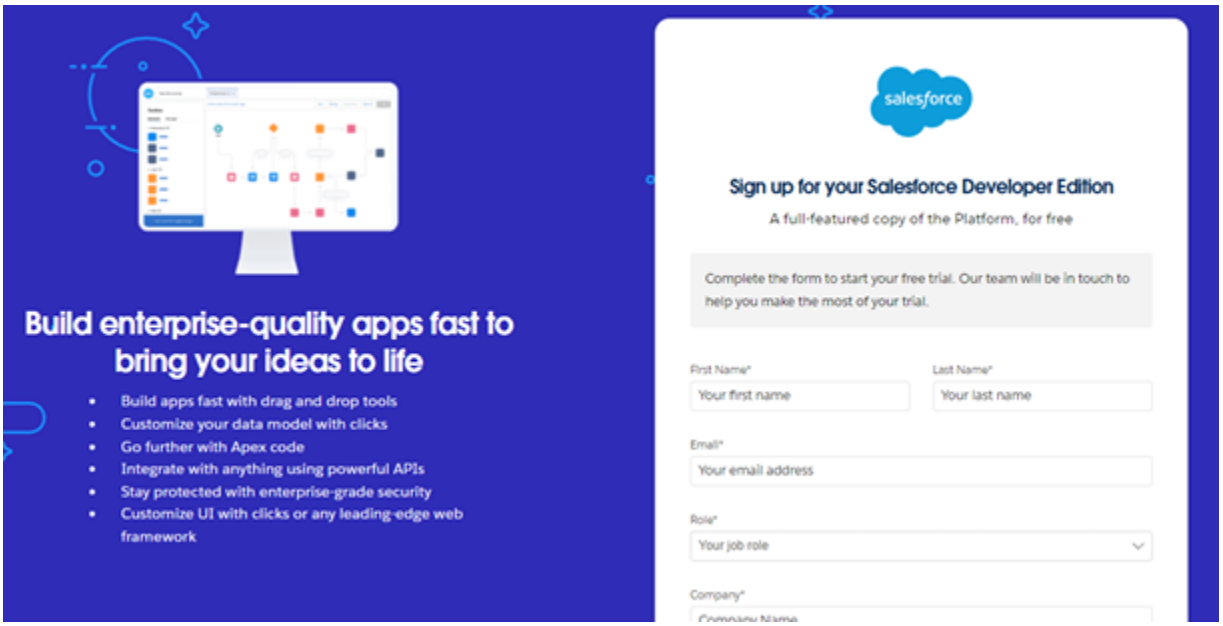
3. Key Features :

- **Food Pickup and Distribution Tracking**: Automatically request food pickups and make sure it gets delivered to shelters.
- **Inventory Management**: Keep an eye on food availability in real-time to ensure it's efficiently allocated based on demand.
- **Reporting and Analytics**: Generate reports and dashboards on food distribution, donor contributions, and recipients.
- **Mobile Access**: Enable volunteers and coordinators to access the platform on their mobile devices using Salesforce Mobile.

4. Salesforce Developer Setup And WorkFlow ：

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 :

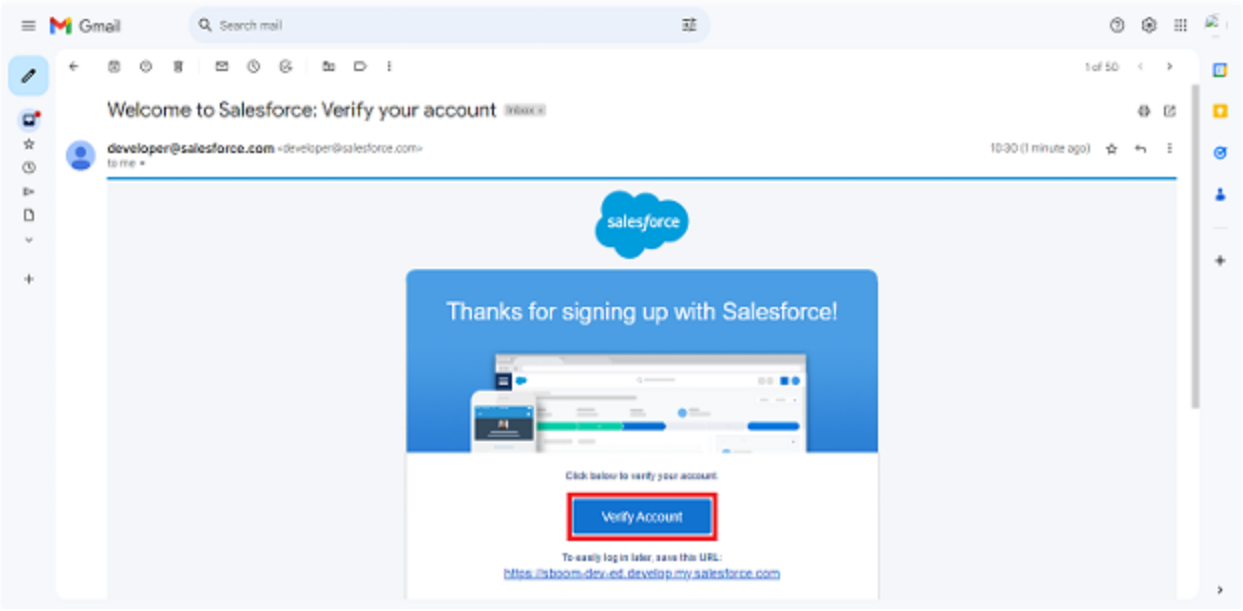


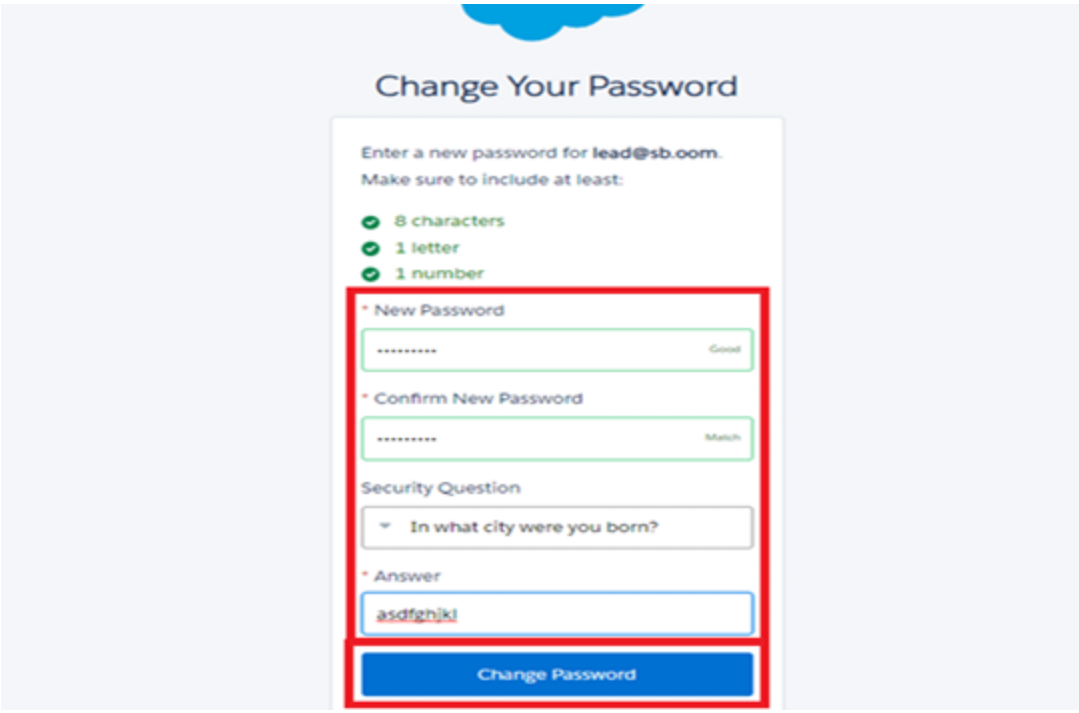
1. First name & Last name
2. Email
3. Role : Developer
4. Company : College or Company Name
5. County : India
6. Postal Code : pin code
7. Username: should be a combination of your name and company

5. System Architecture:

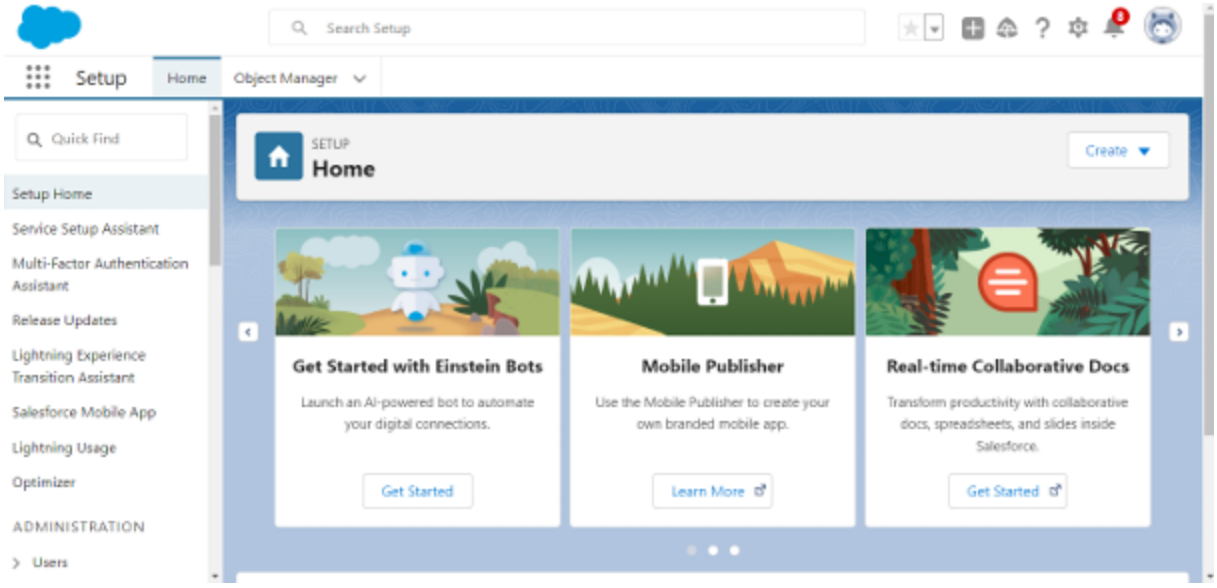
a)Account Activation

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.



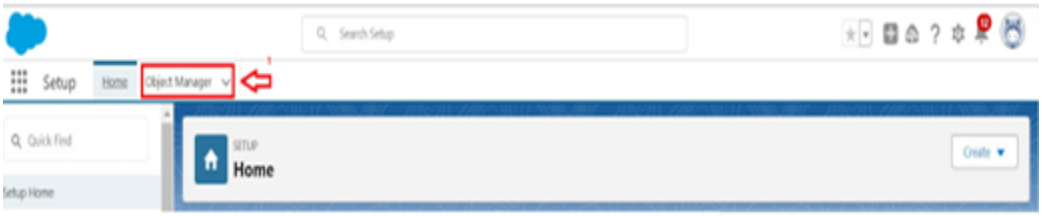


2. Click on Verify Account
3. Give a password and answer a security question and click on change password.
4. Then you will redirect to your salesforce setup page



Createing Objects

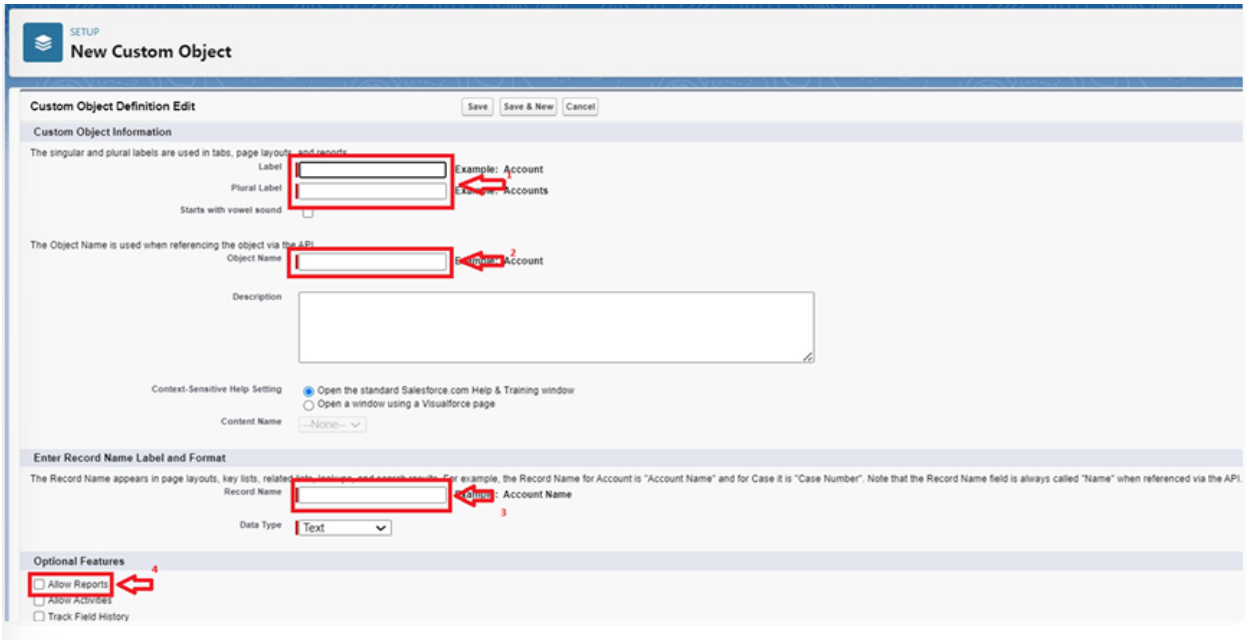
To Navigate to Setup page:

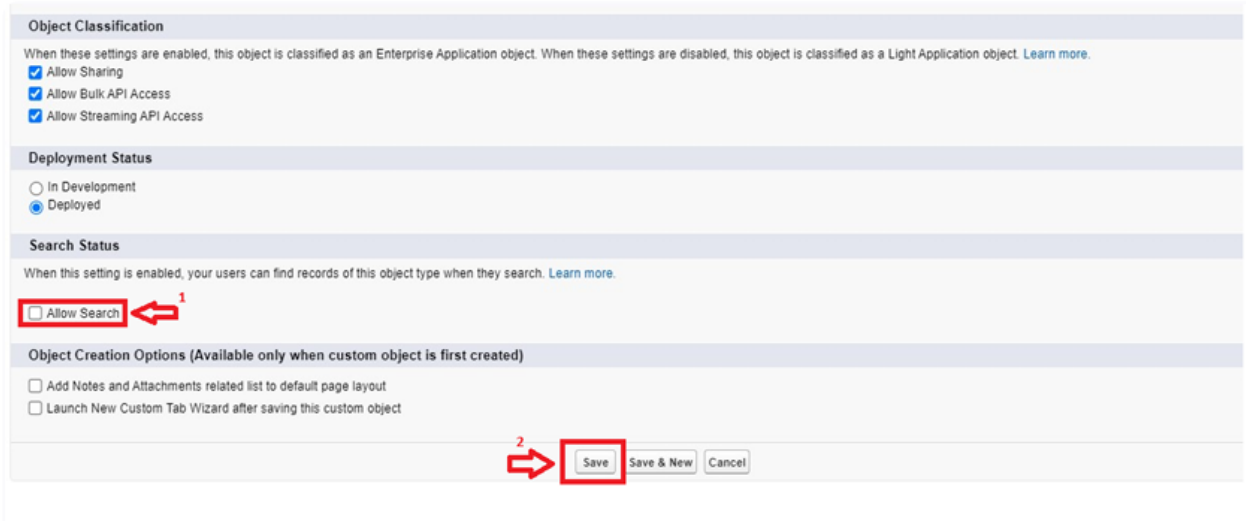


To create an object:

1. From the setup page > Click on Object Manager > Click on Create > Click on Custom Object

2. On Custom object defining page : Enter the label name, plural label name, click on Allow reports, Allow search.





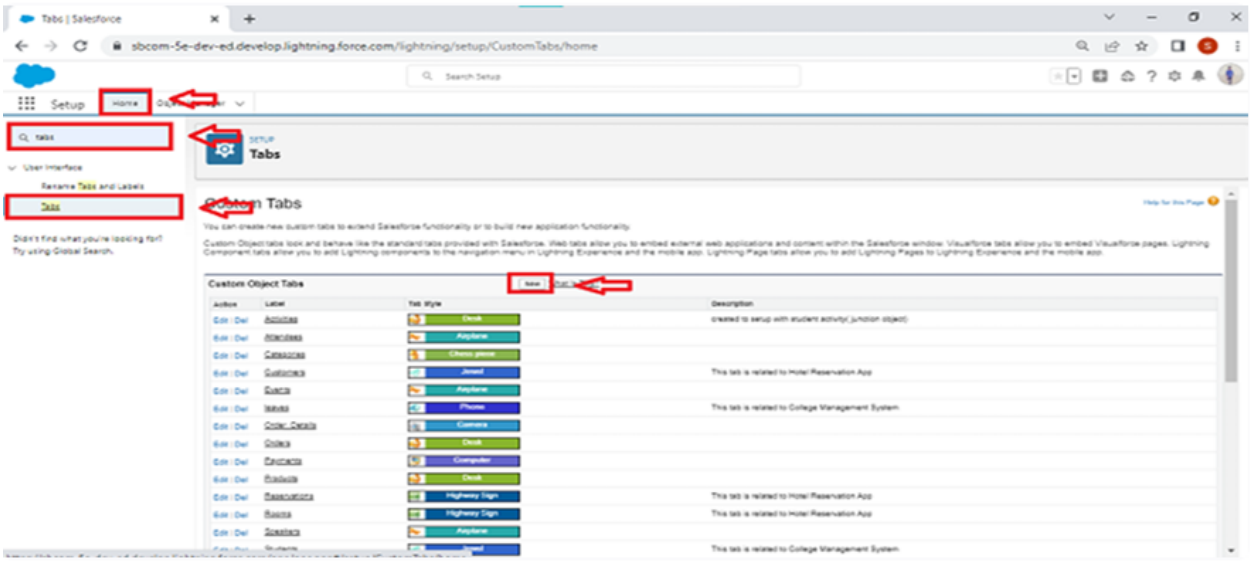
3. Click on Save

Here we create 4 ojects in the projects that venue obejct, drop-off point object, task object, volenteer object, execution details object.As the same way as above mention in the secrenshorts you have to follow the same process for every object that you made.

b)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)

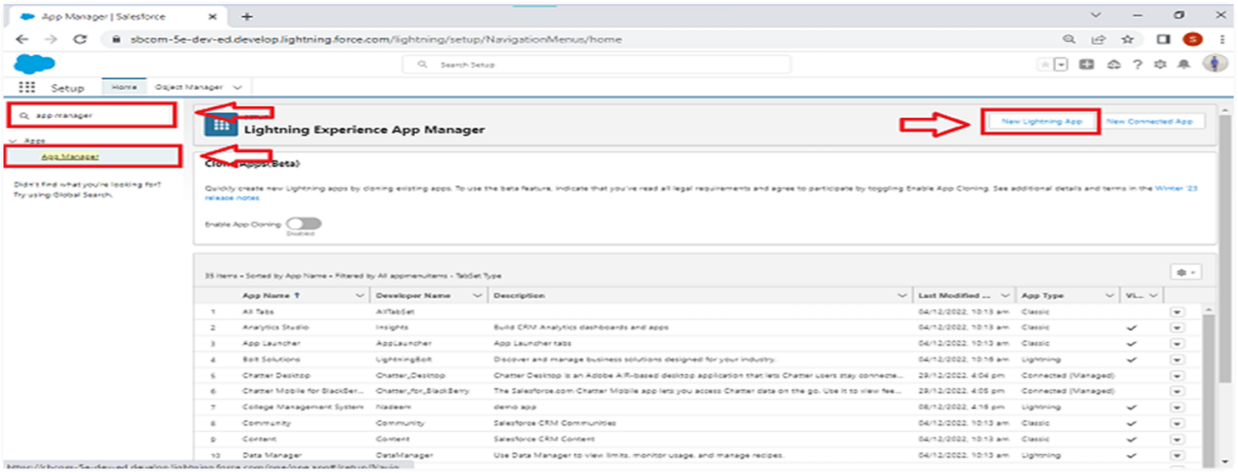


2. Select Object(Venue) >> Select the tab style >> Next (Add to profiles page) keep it as default >> Next (Add to Custom App) uncheck the include tab .
3. Make sure that the Append tab to users' existing personal customizations is checked.
4. Click Save.

c)Create a Lightning App

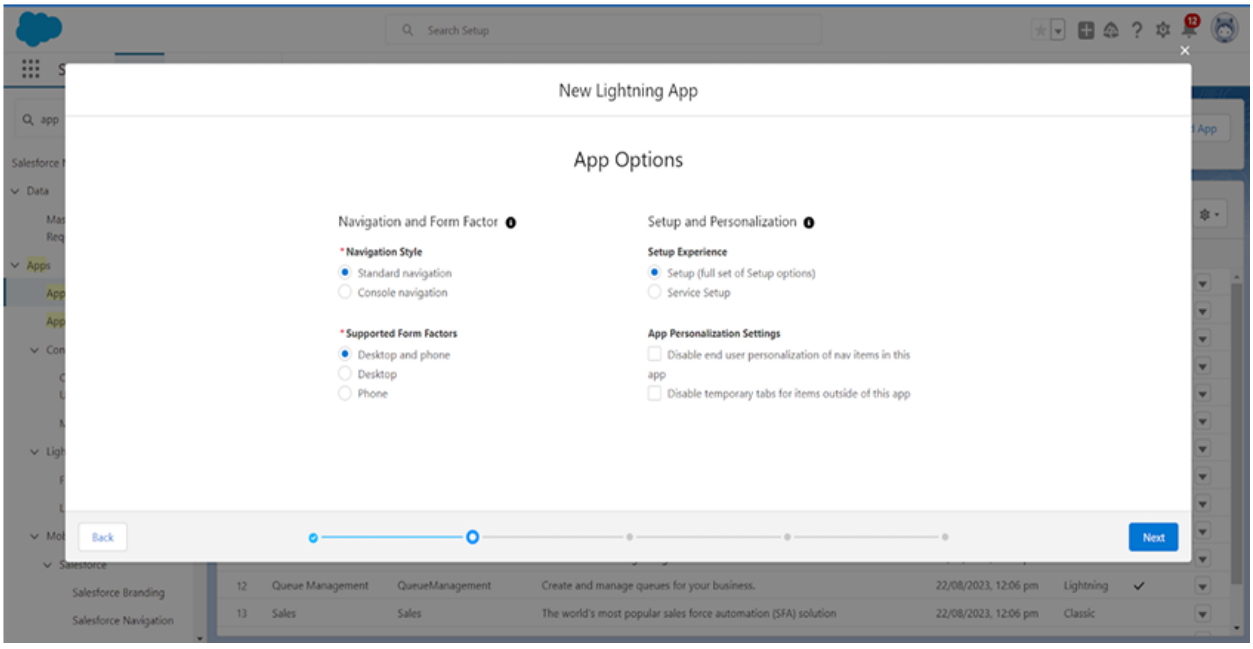
To create a lightning app page:

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.



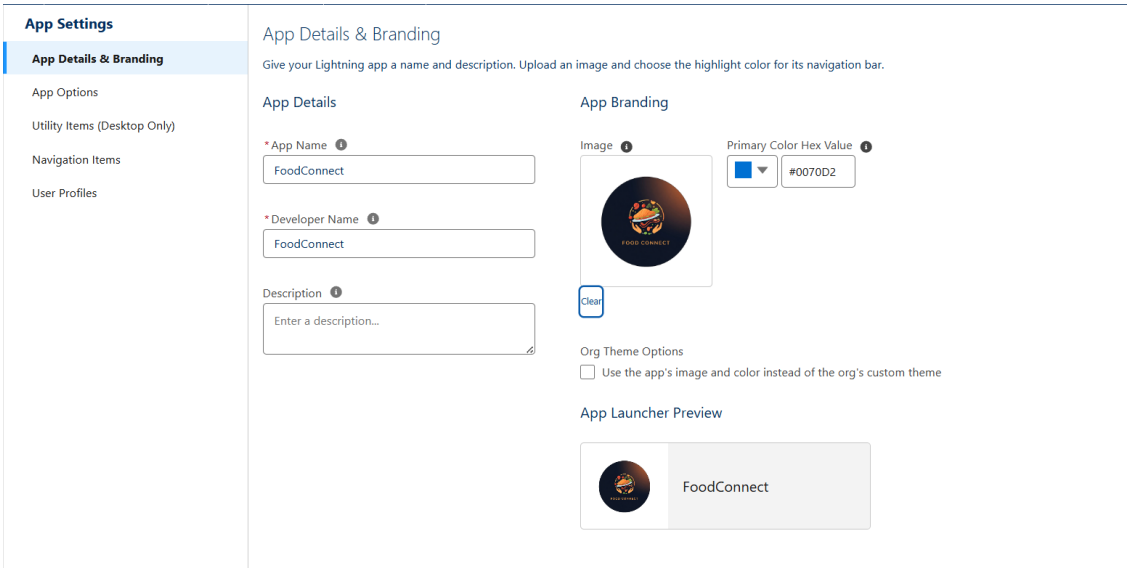
4. (Utility Items) keep it as default >> Next.

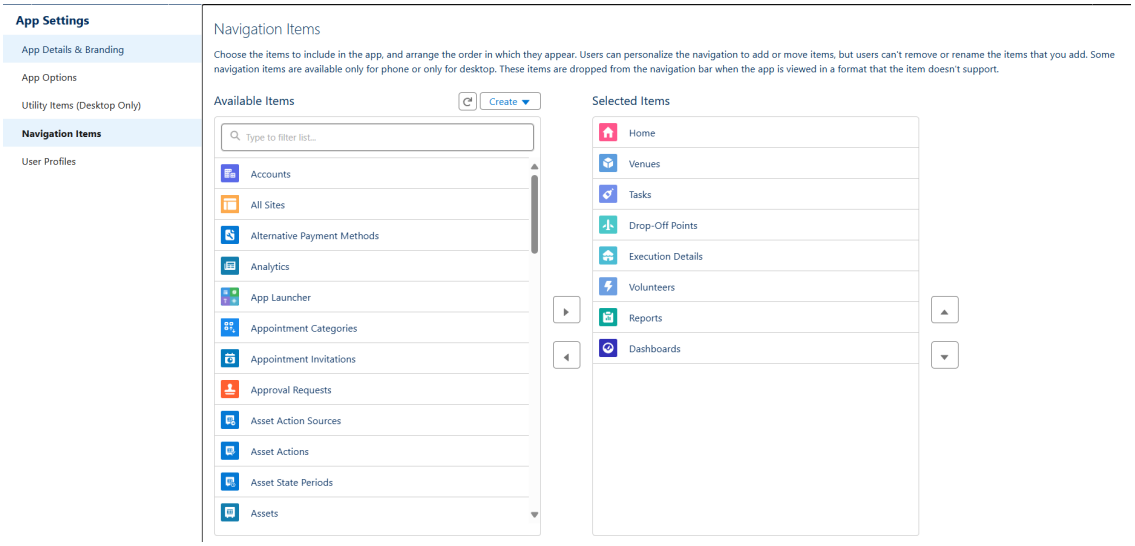
5. To Add Navigation Items: Search for the item in the (Home, Venue, Drop-Off Point, Task, Volunteer, Execution Details, Reports) from the search bar and move it using the arrow button >> Next >> Next.

6. To Add User Profiles

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

Output of the Lightning app:

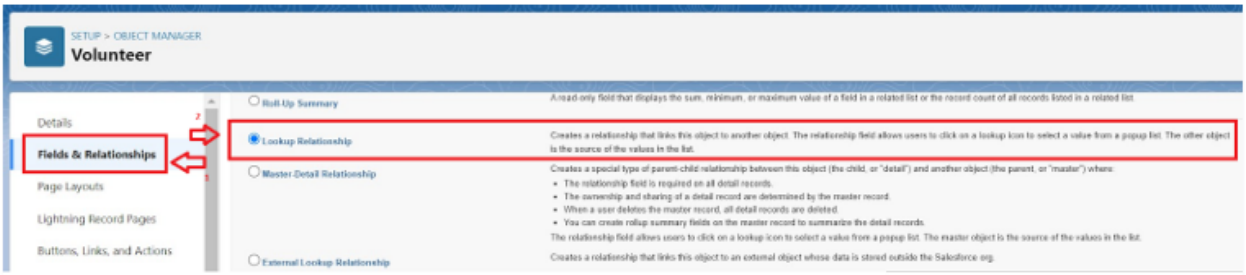




d)Creation of Relationship fields in objects:-

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

Similarly create the other fields and realtionship as well:
These inlcude:-

1. Venue
2. Sponsored By
3. Drop-Off point

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
5. Click on Next >> Next >> Save and new.

Similarly create the other fields and realtionship as well:
These inlcude:-

1. Contact Phone
2. Location
3. Venue Location

Creation of fields for the Drop-Off point object

1. 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
5. Click on Next >> Next >> Save and new.

Similarly create the other fields and realtionship as well:
These inlcude:-

1. distance calculation
2. State
3. Distance

Creation of fields for the Task object

1. 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
5. Click on Next >> Next >> Save and new.

Similarly create the other fields and realtionship as well:
These inlcude:-

1. Date
2. Food Category
3. Number of People Served
4. Name of the Person
5. Phone
6. Rating
7. Feedback

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
5. Click on Next >> Next >> Save and new.

Similarly create the other fields and realtionship as well:

These inlcude:-

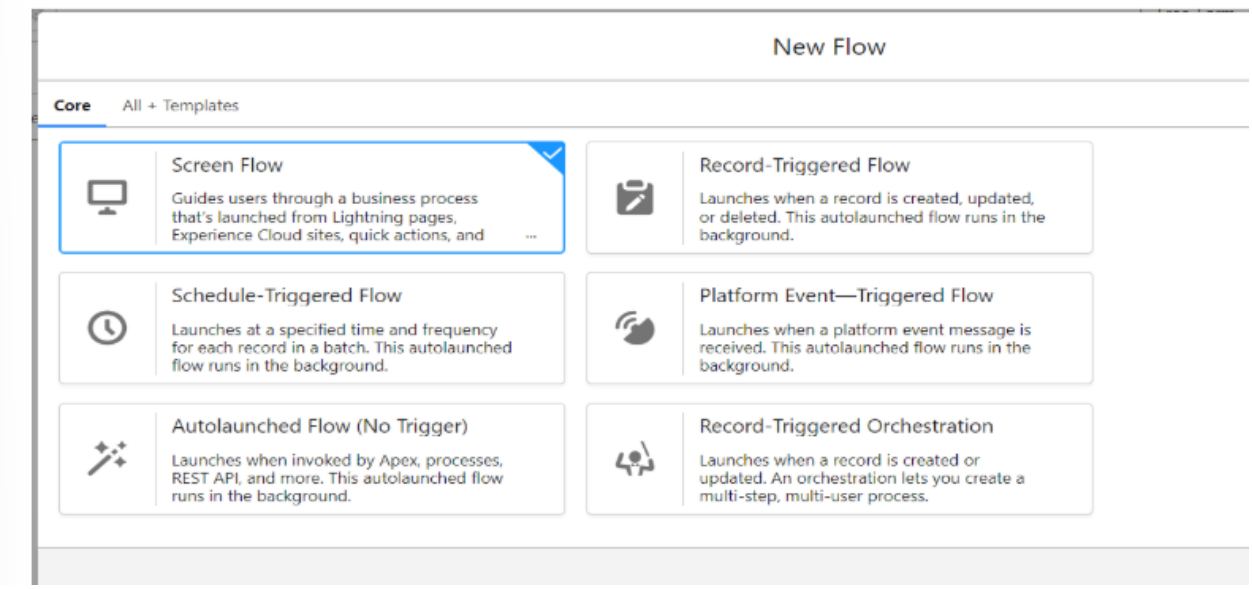
1. Gender
2. Available On
3. Age
4. Email
5. Contact Number
6. Address
7. Date of Birth

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
5. Click on Next >> Next >> Save and new.

e)Create Flow

1. Go to setup >> type Flow in quick find box >> Click on the Flow and Select the New Flow.
2. Select the Screen flow. Click on create.

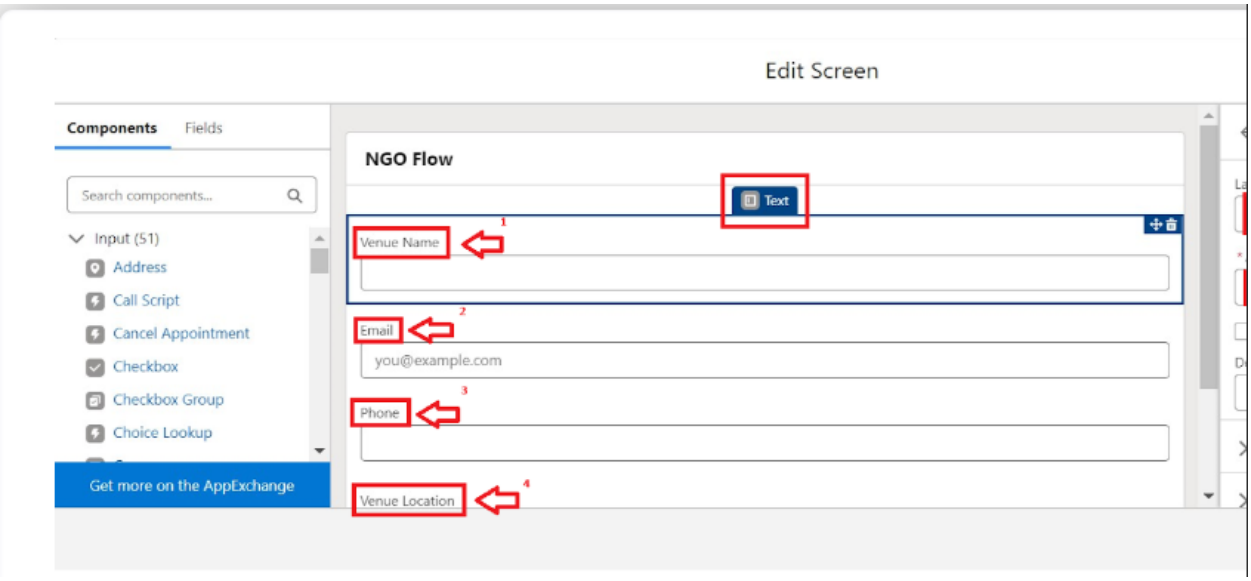


3. Click on the '+' icon in between start and end, and click on screen element.
4. Under the Screen Properties:
   Label : Venue Details
   API Name : Venue_Details
5. Now lets add components in this flow. Click on Text Component and name it as:
   Label : Venue Name
   API Name : Venue_Name
6. Click on Email Component and name it as:
   Label : Email
   API Name : Contact_Email
7. Click on Phone Component and name it as:
   Label : Phone
   API Name : Contact_Phone
8. Click on Text Component and name it as:
   Label : Venue Location
   API Name : Venue_Location
9. Click on Number Component and name it as:
   Label : Latitude
   API Name : Latitude

10. Click on Number Component and name it as:

Label : longitude
API Name : longitude
Label : longitude
API Name : longitude

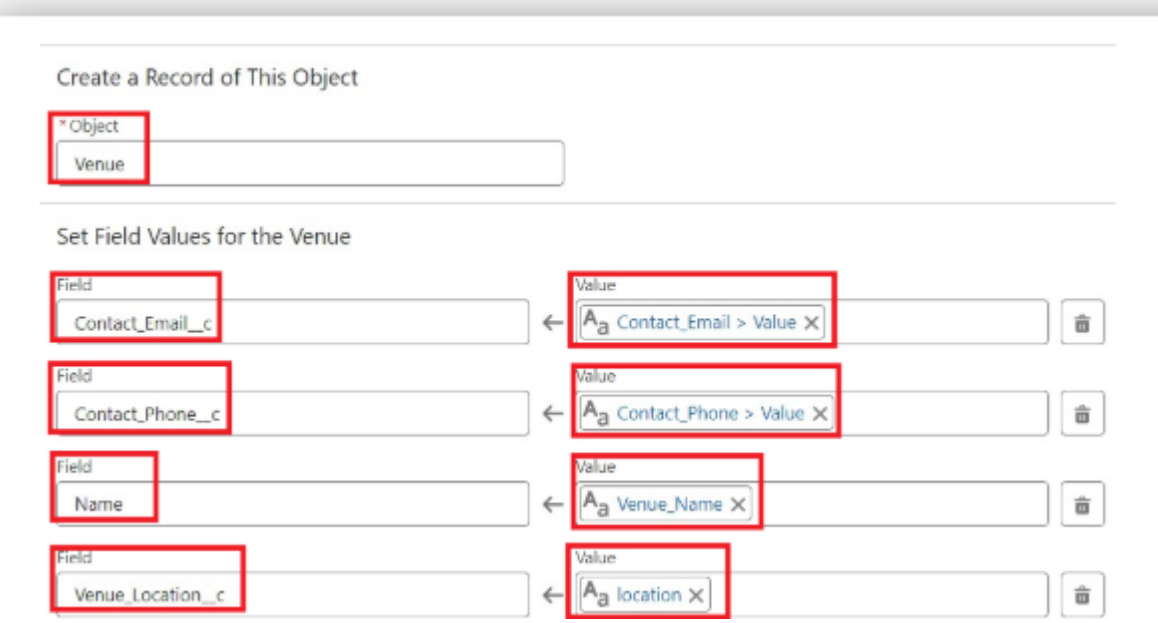
11. Next click on Done. This would like below



12. Click on the '+' icon in between Venue details and end, and click on create record element.
13. Now label it as:

Label : Create Venue Record
API Name : Create_Venue_Record
How Many Records to Create : One
How to Set the Record Fields : Use separate resources, and literal values
Object : Venue
Set Field Values for the Venue : Click on 'Add Field' 5 times
Field : Value = Contact_Email__c : {!Contact_Email.value}
Field : Value = Contact_Phone__c : {!Contact_Phone.value}
Field : Value = Name : {!Venue_Name}
Field : Value = Venue_Location__c : {!location}
Field : Value = Location__Latitude__s : {!latitude}
Field : Value = Location__Longitude__s : {!longitude}

This would look like:

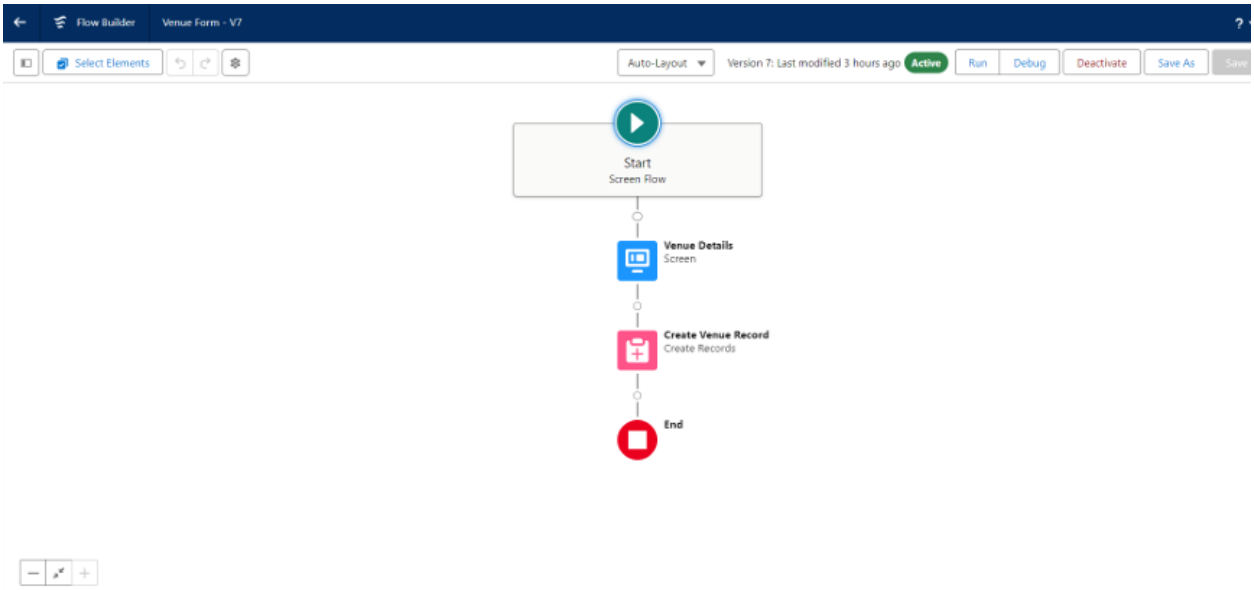


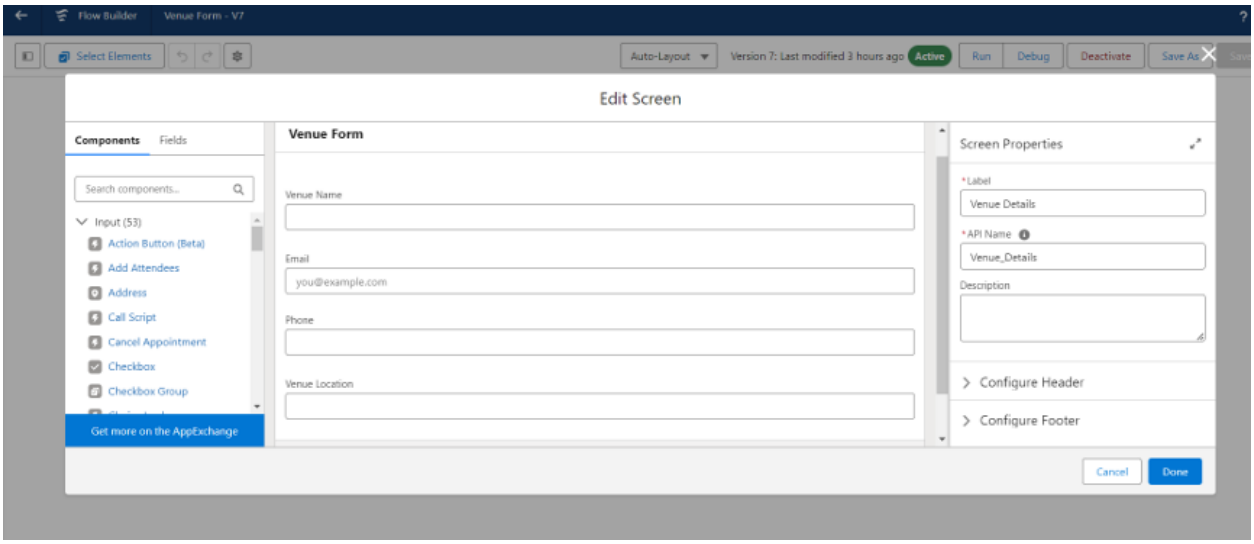
15. Click on Save as:

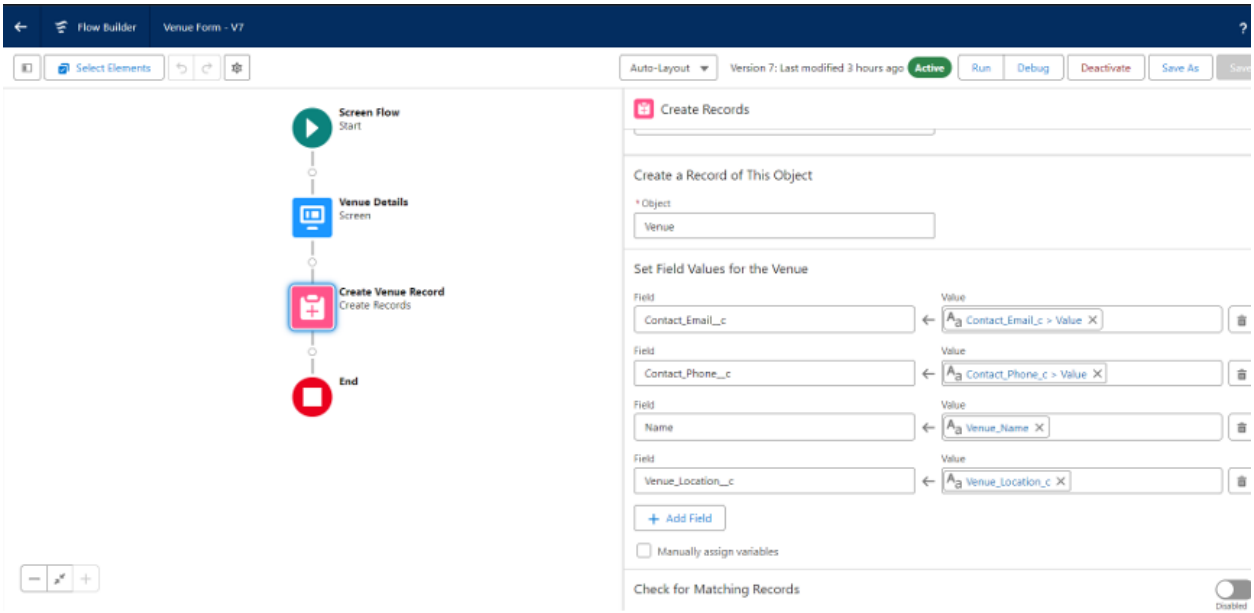
Flow Label : Venue Form

Flow API Name : Venue_Form

Final result:-

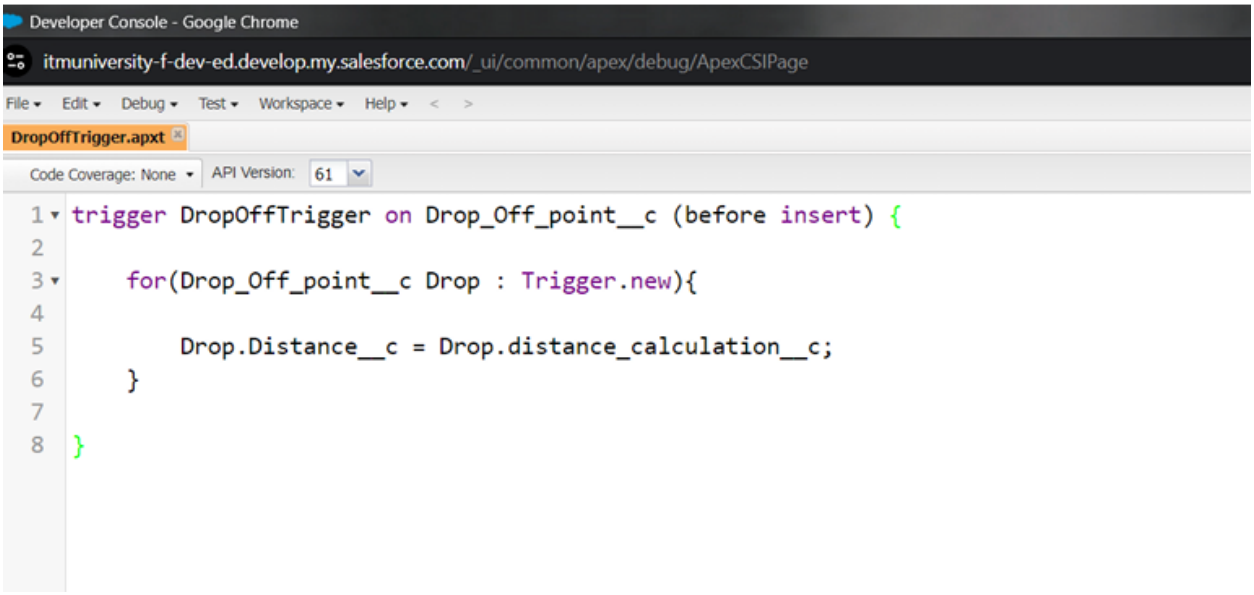



Flow Builder
Venue Form - V7
Select Elements
Auto-Layout
Version 7: Last modified 3 hours ago
Active
Run
Debug
Deactivate
Save As
Edit Screen
Components
Fields
Search components...
Input (53)
Action Button (Beta)
Add Attendees
Address
Call Script
Cancel Appointment
Checkbox
Checkbox Group
Get more on the AppExchange
Venue Form
Venue Name
Email
you@example.com
Phone
Venue Location
Screen Properties
*Label
Venue Details
*API Name
Venue_Details
Description
Configure Header
Configure Footer
Cancel
Done


Flow Builder
Venue Form - V7
Select Elements
Auto-Layout
Version 7: Last modified 3 hours ago
Active
Run
Debug
Deactivate
Save As
Screen Flow
Start
Venue Details
Screen
Create Venue Record
Create Records
End
Create Records
Create a Record of This Object
*Object
Venue
Set Field Values for the Venue
Field
Value
Contact_Email__c
Contact_Email_c > Value
Contact_Phone__c
Contact_Phone_c > Value
Name
Venue_Name
Venue_Location__c
Venue_Location_c
Add Field
Manually assign variables
Check for Matching Records
Disabled

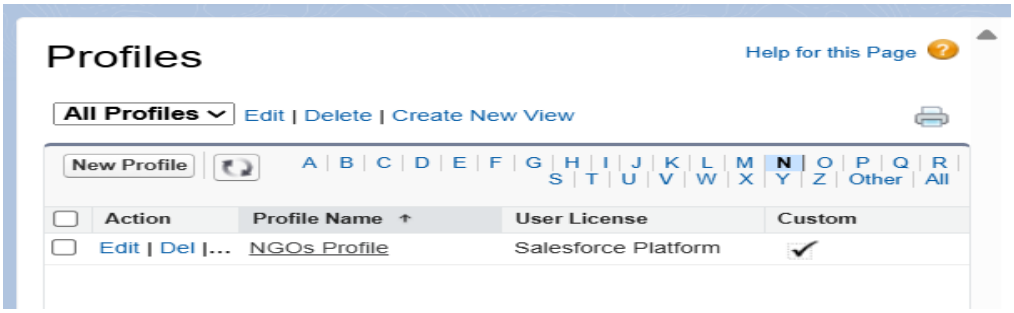
f)Create a Trigger

1. Click on developer console and you will be navigated to a new console window.
2. Click on the File menu in the toolbar, and click on new >> Trigger.
3. Enter the trigger name and the object to be triggered.
4. Enter Name : DropOffTrigger
   Object: Drop-Off Point
5. Click on Submit.



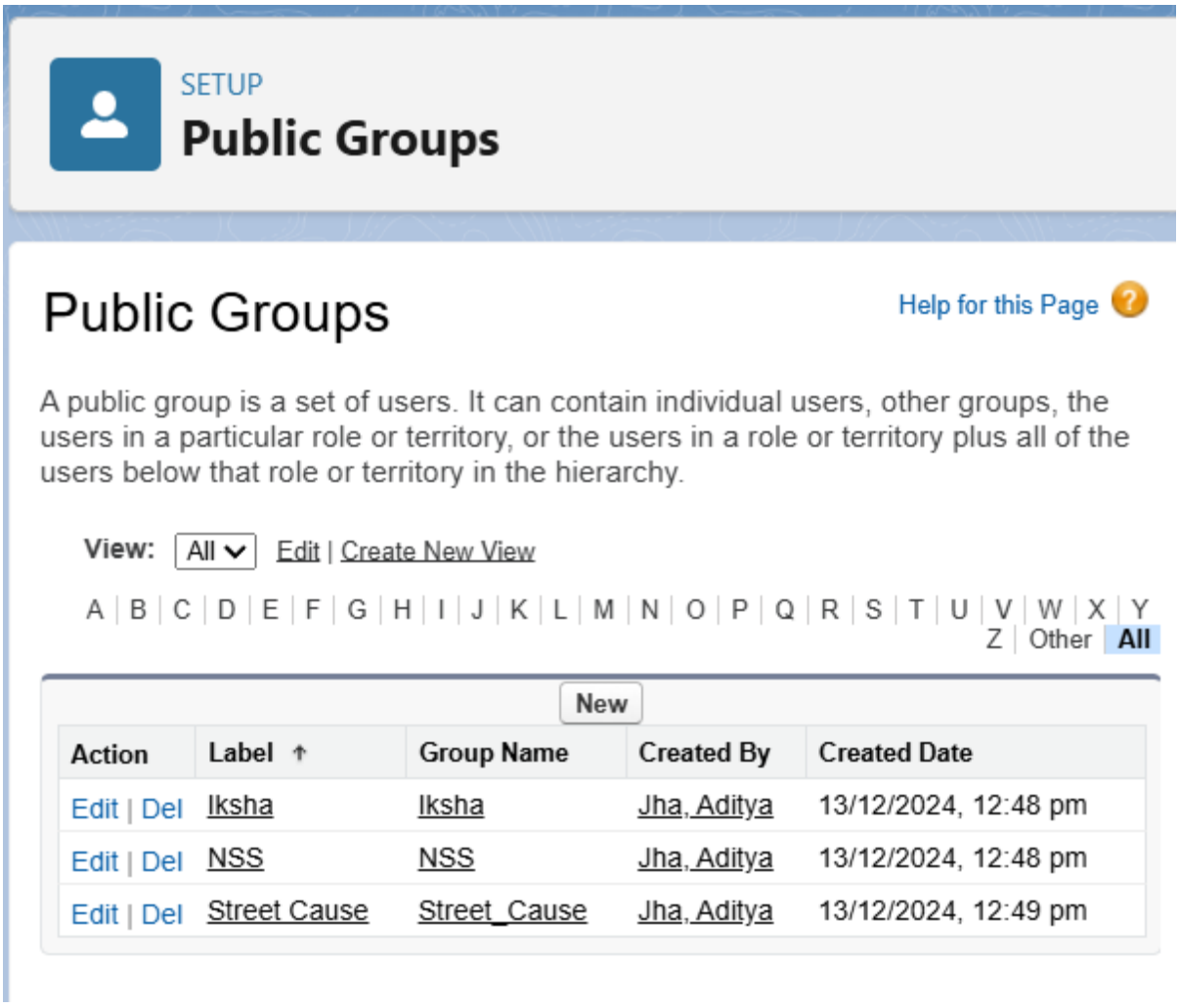
g)Creation of Users and profile

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



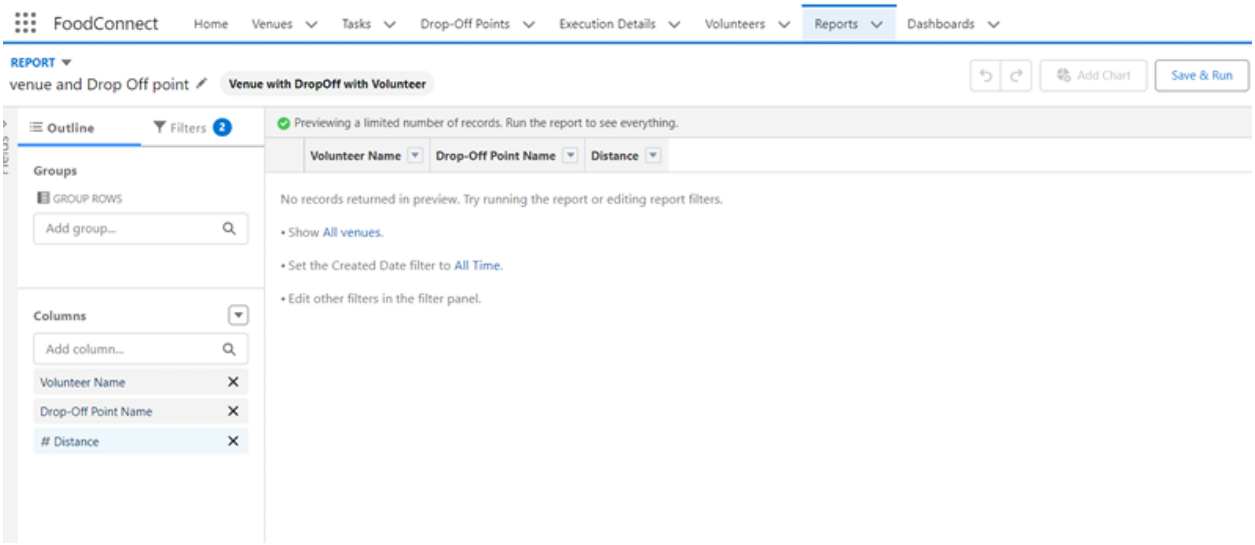
After creating 3 foundations it should look like this.

h)Creation of Public Group 1,2,3

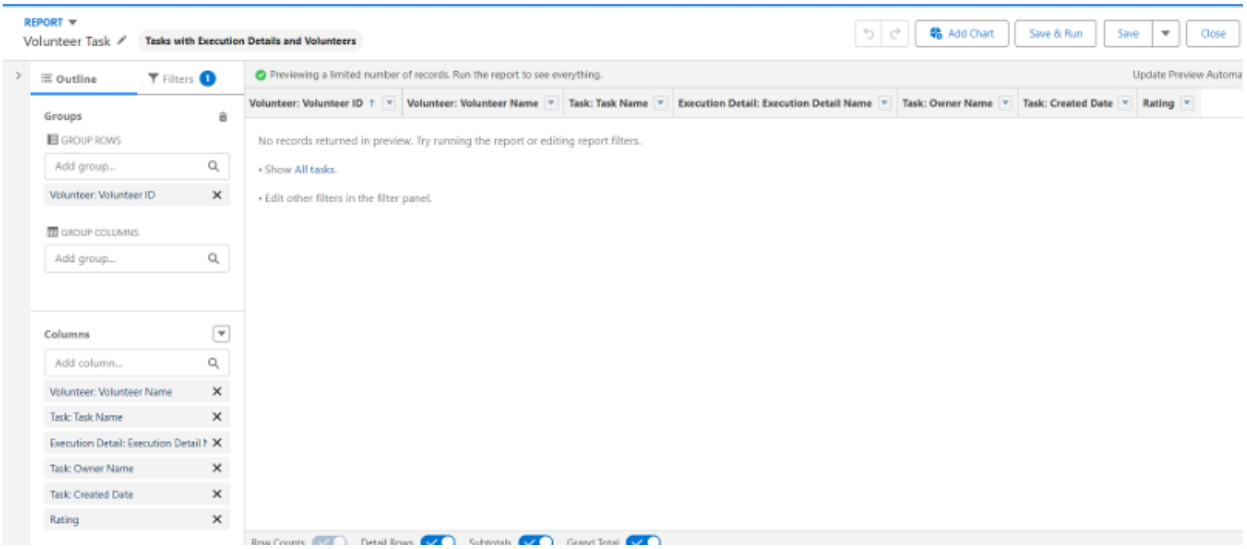


i)Creation of Report

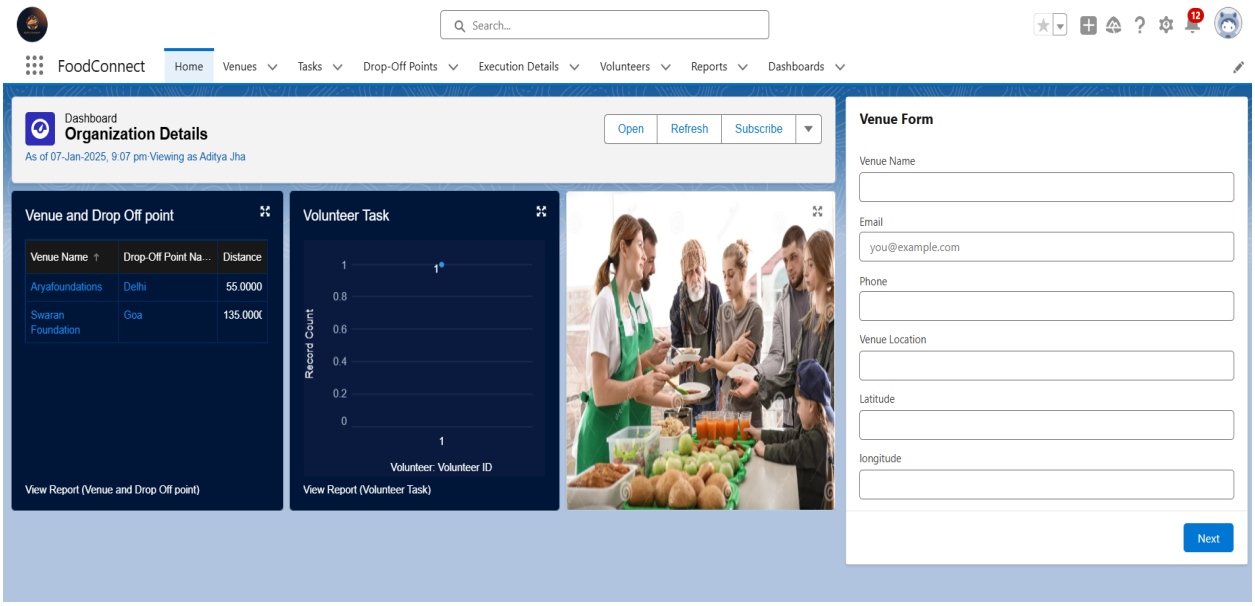
Creation of Report on Venue with DropOff with Volunteer



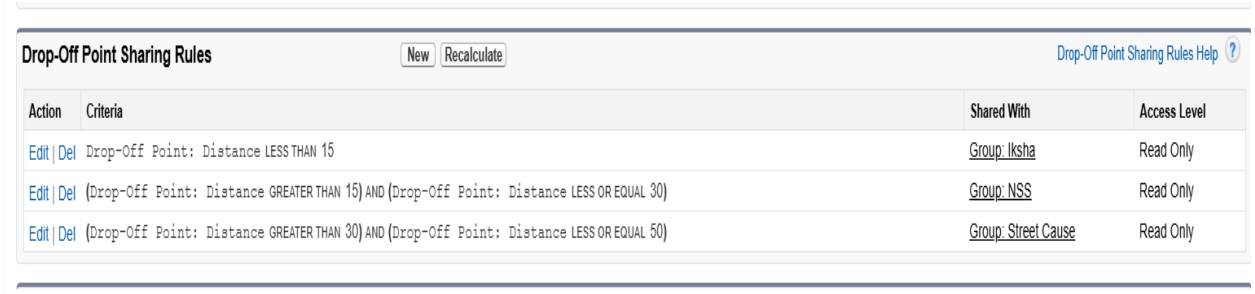
Creation of Report on Volunteers with Execution Details and Tasks



j)Dashboards



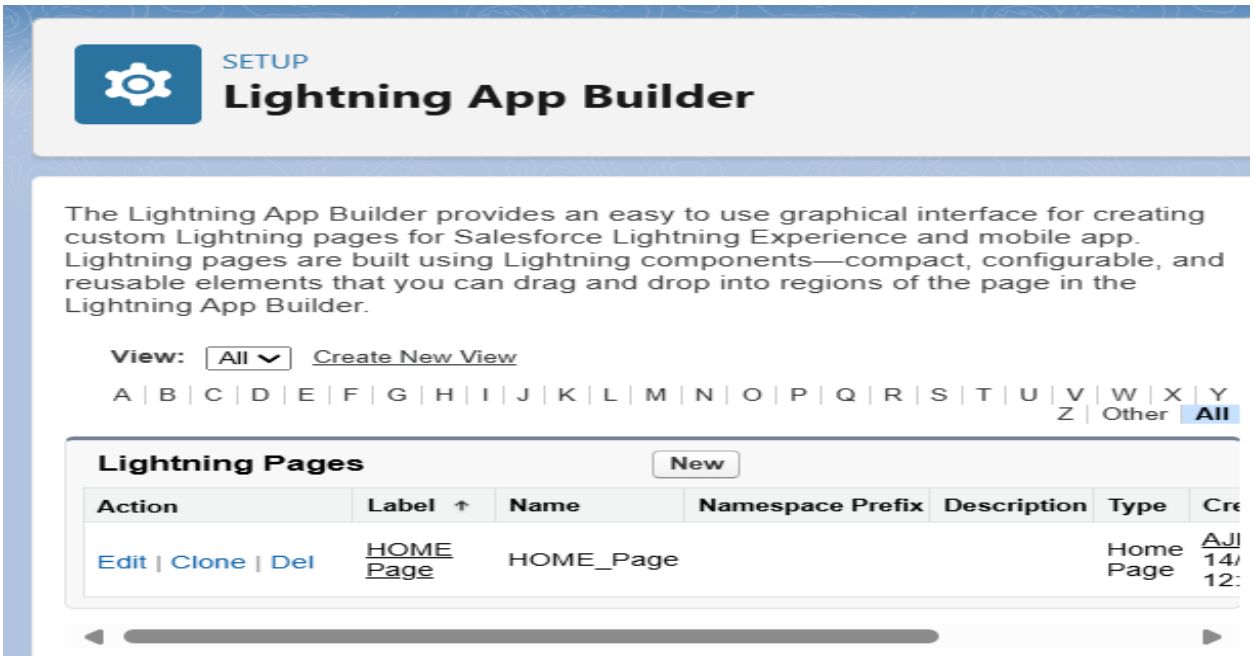
k)Creation of sharing rules

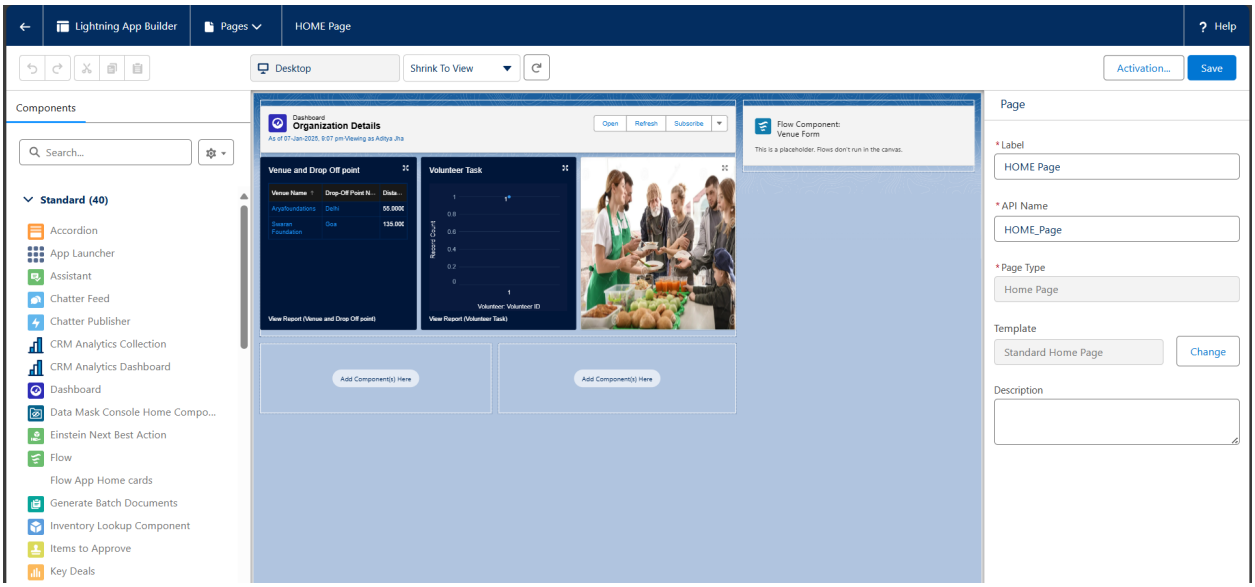


Drop-Off Point Sharing Rules New Recalculate Drop-Off Point Sharing Rules Help

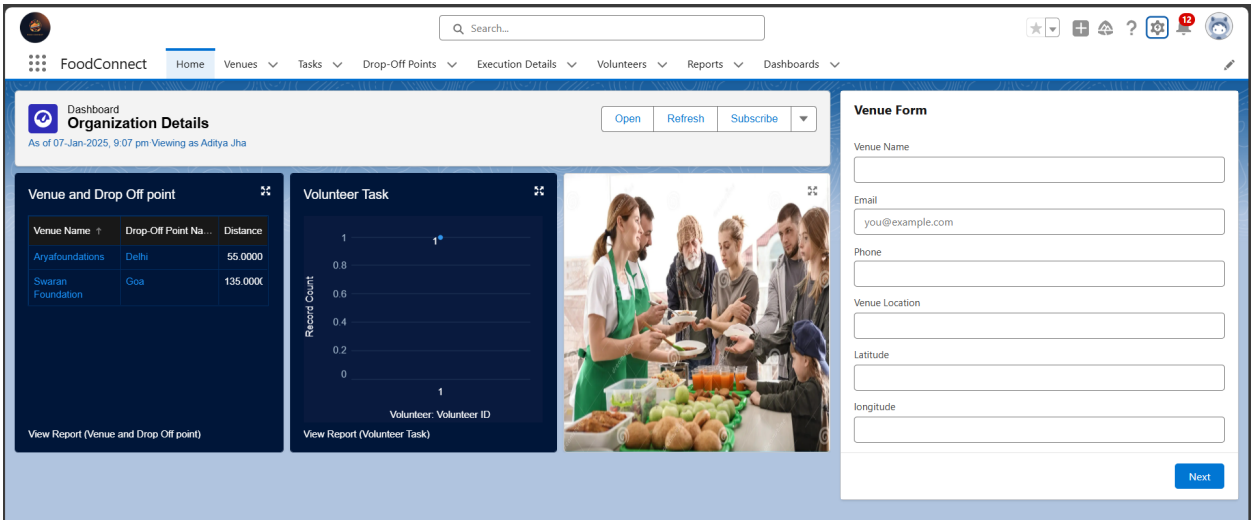
Action	Criteria	Shared With	Access Level
Edit | Del	Drop-Off Point: Distance LESS THAN 15	Group: Iksha	Read Only
Edit | Del	(Drop-Off Point: Distance GREATER THAN 15) AND (Drop-Off Point: Distance LESS OR EQUAL 30)	Group: NSS	Read Only
Edit | Del	(Drop-Off Point: Distance GREATER THAN 30) AND (Drop-Off Point: Distance LESS OR EQUAL 50)	Group: Street Cause	Read Only

I)Creation of Home Page

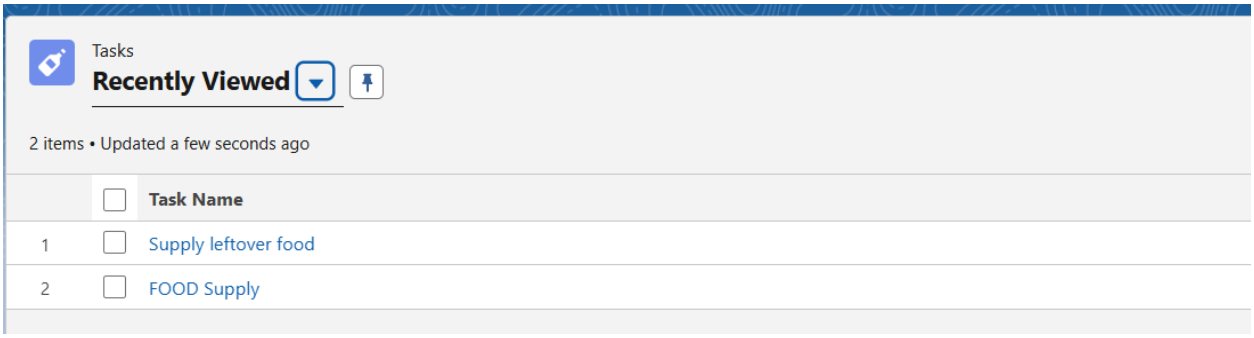


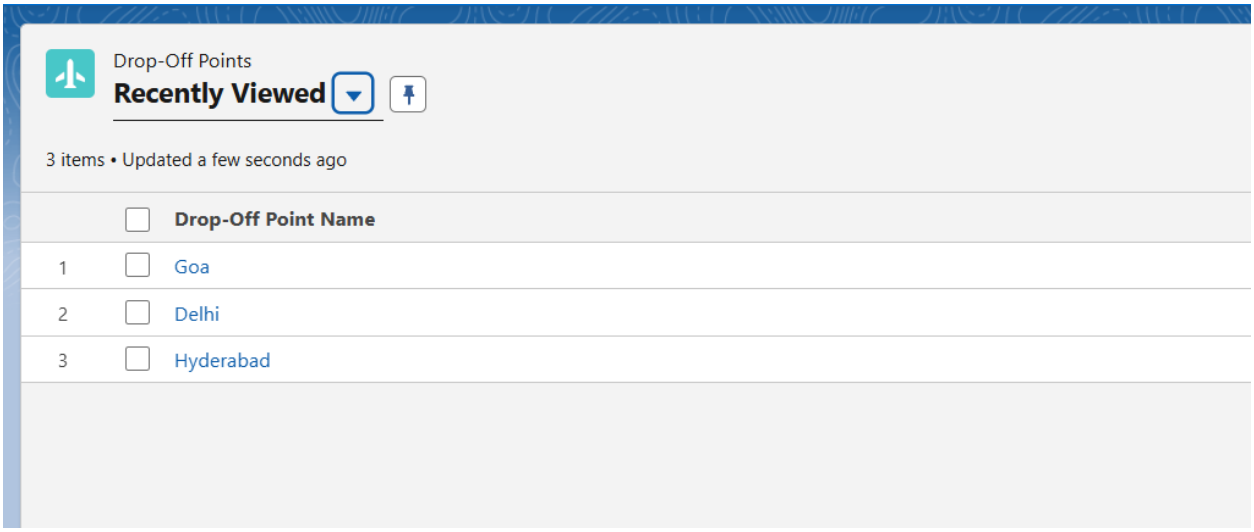


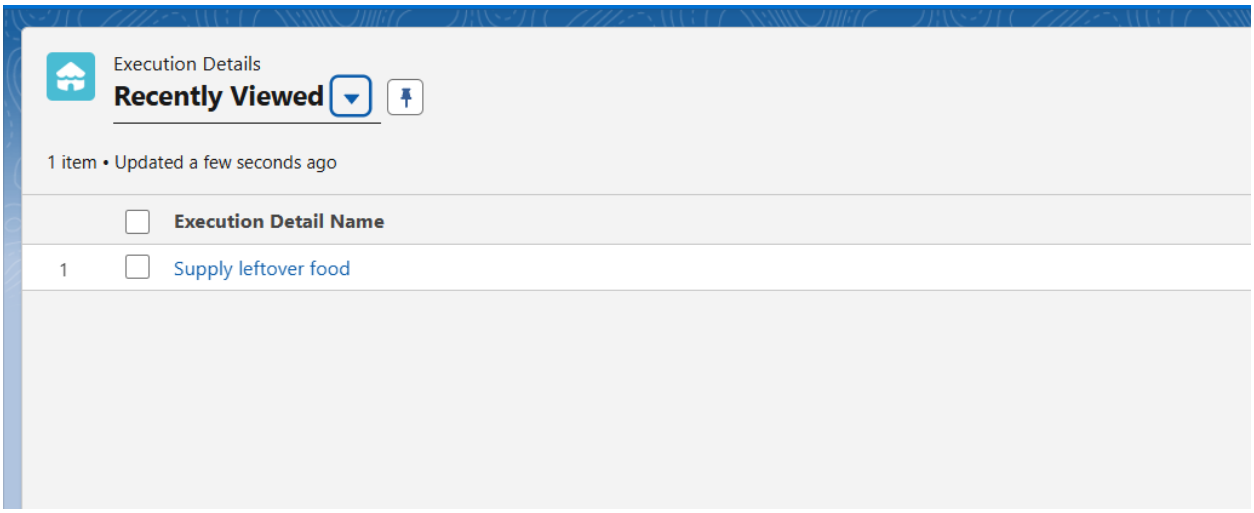
6. OUTPUT SCREENSHOTS :

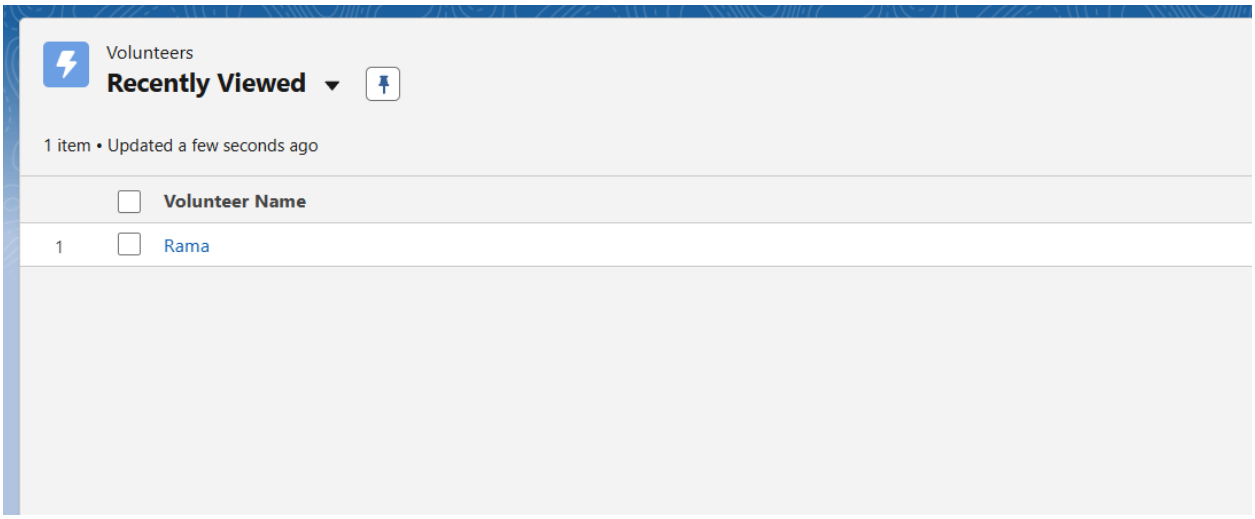


//THE FINAL OUTPUT OF THE APP SHOULD LOOK LIKE THIS AFTER FOLLOWING ALL THE STEPS CORECTLY//









7. Video Demonstation :

Here is the GitHub link where all the doxuments related to the project will be available.

[AdityaJha2901/FoodConnect-to-supply-leftover-food-to-poor]

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.