

# PROJECT TITLE: TO SUPPLY LEFTOVER FOOD TO POOR

COLLEGE NAME: PPG COLLEGE OF ARTS AND SCIENCE

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COIMBATORE – 641035

COLLEGE CODE: **bruap**

DEGREE: B.sc Computer Science (Artificial Intelligence)  
( III-rd year )

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**PROJECT TITLE:TO SUPPLY LEFTOVER FOOD TO POOR**

Phases Overview :

Phase Number	Phase Name	Description	Pages
1	Requirement Analysis & Planning	Collecting inputs from donors, volunteers, and beneficiaries; defining objectives and scope; outlining data structure and process flows.	3
2	System Development – Core Setup	Designing data models with necessary entities and connections; setting up automated processes for smooth operations.	3
3	Interface Design & Customization	Building the application interface, arranging layouts, adding fields, and implementing user interaction logic.	8
4	Data Handling, Testing & Security	Creating user roles and permissions; setting up reports and dashboards; testing features and ensuring information safety.	25
5	Data Handling, Testing & Security	Finalizing the homepage, launching the solution in the live environment, preparing documentation, presenting conclusions, and establishing ongoing maintenance.	33

# PROJECT TITLE:TO SUPPLY LEFTOVER FOOD TO POOR

## PROJECT OVERVIEW

Food wastage remains a serious challenge worldwide, as tons of consumable food are discarded while many people struggle with hunger. This project introduces a digital platform designed to streamline the collection and redistribution of excess food. By connecting donors, collection hubs, volunteers, and nonprofit organizations, the system ensures smooth coordination and efficient delivery. With the integration of automation and digital tools, the platform enhances accountability, improves transparency, and strengthens resource management. The initiative demonstrates how technology can be leveraged to reduce food waste and foster greater social impact.

## OBJECTIVES

- **Boost Food Distribution Efficiency:** Support real-time tracking of food pickup and delivery to those in need.
- **Guarantee Transparency:** Keep precise records of donors, beneficiaries, and distribution activities.
- **Simplify Volunteer Coordination:** Use automation for assigning tasks, scheduling, and sending reminders.
- **Maximize Resource Use:** Monitor inventory and manage food allocation to cut down unnecessary waste.
- **Enable Instant Updates:** Provide stakeholders with live information about surplus food and distribution progress.

## STUDENT OUTCOMES

- **Practical Learning in Automation:** Hands-on experience with creating workflows, managing data, and tracking food donations in real time.
- **Knowledge of Social Project Development:** Insight into each stage of project execution, from gathering requirements to final deployment.
- **Improved Critical Thinking:** Strengthened ability to analyze challenges, design solutions, and address issues effectively.

## **SYSTEM REQUIREMENTS**

### **Hardware:**

- A computer with at least 4 GB RAM and a dual-core processor
- Stable internet connectivity

### **Software:**

- Developer Edition of the chosen platform
- A modern web browser (e.g., Google Chrome, Mozilla Firefox)

## **PHASE 1: REQUIREMENT ANALYSIS & PLANNING:**

To Supply Leftover Food to Poor: Utilizing Salesforce, our project streamlines surplus food collection and distribution to the needy, ensuring efficiency and transparency.

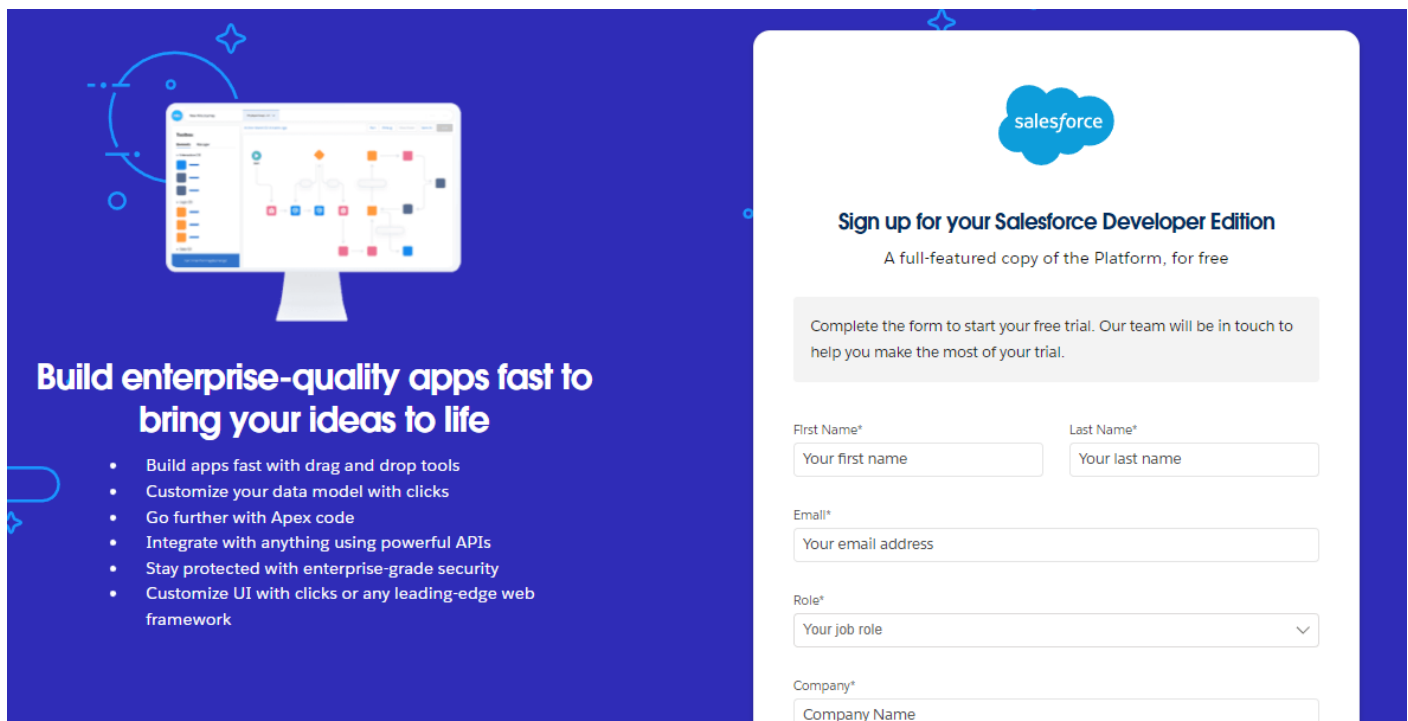
## **PHASE 2: SALESFORCE DEVELOPMENT – CORE SETUP:**

### **MILESTONE 1: SALESFORCE DEVELOPER ACCOUNT CREATION**

#### **ACTIVITY 1: 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 :



**Build enterprise-quality apps fast to bring your ideas to life**

- Build apps fast with drag and drop tools
- Customize your data model with clicks
- Go further with Apex code
- Integrate with anything using powerful APIs
- Stay protected with enterprise-grade security
- Customize UI with clicks or any leading-edge web framework

**Sign up for your Salesforce Developer Edition**  
A full-featured copy of the Platform, for free

Complete the form to start your free trial. Our team will be in touch to help you make the most of your trial.

First Name\*  
Your first name

Last Name\*  
Your last name

Email\*  
Your email address

Role\*  
Your job role

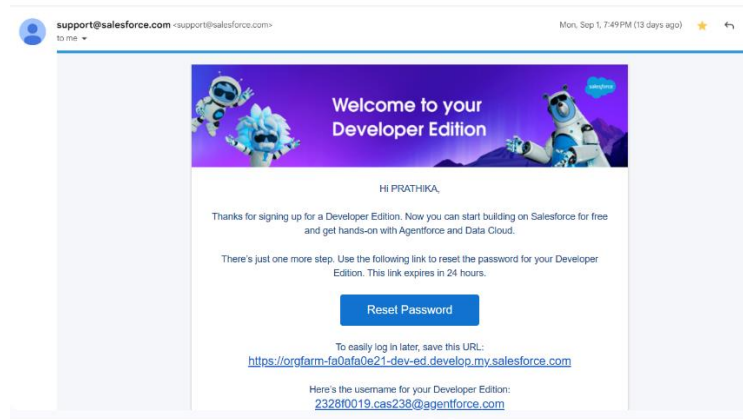
Company\*  
Company Name

- First name & Last name
- Email
- Role : Developer
- Company : College or Company Name
- Country : India
- Postal Code : pin code
- Username : should be a combination of your name and company
- Click on sign me up after filling these.

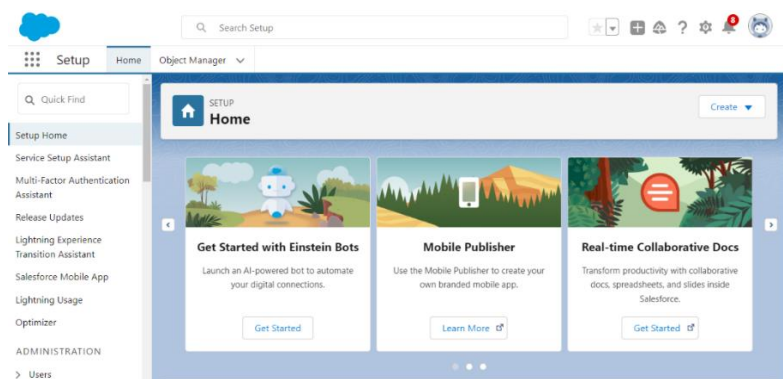
## ACTIVITY 2:ACCOUNT ACTIVATION

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.

Click on Verify Account

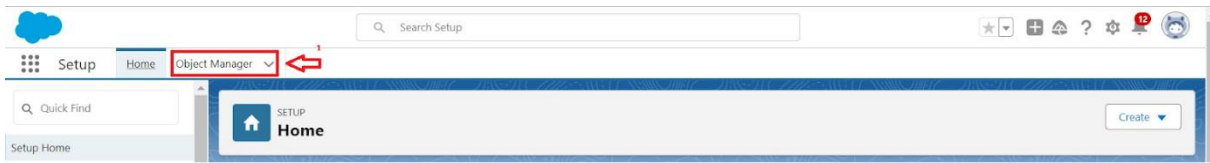
A 'Change Your Password' form. It asks for a new password for the email lead@sb.oom, with requirements: 8 characters, 1 letter, and 1 number. It includes fields for 'New Password', 'Confirm New Password', 'Security Question' (with a dropdown menu), and 'Answer'. A 'Change Password' button is at the bottom.

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



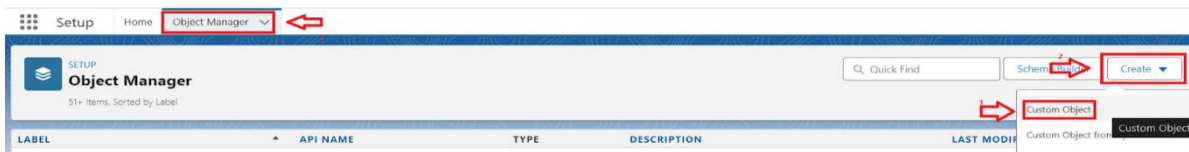
## MILESTONE: OBJECTS:

To Navigate to Setup page:



To create an object:

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



On Custom object defining page:

Enter the label name, plural label name, click on Allow reports, Allow search.

Click on Save.

## **ACTIVITY 1 :CREATE VENUE OBJECT**

- To create an object:
- From the setup page >> Click on Object Manager >> Click on Create >>Click on Custom Object.
- Enter the label name >> Venue
- Plural label name >> Venues
- Enter Record Name Label and Format
- Record Name >> Venue Name
- Data Type >> Text
- Click on Allow reports and Track Field History,Allow Activities.
- Allow search >> Save.

## **ACTIVITY 2 :CREATE DROP-OFF POINT OBJECT**

- To create an object:
- From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.
- Enter the label name >> Drop-Off Point
- Plural label name>> Drop-Off Points
- Enter Record Name Label and Format
- Record Name >> Drop-Off point Name
- Data Type >> Text
- Click on Allow reports and Track Field History,Allow Activities
- Allow search >> Save.

## **ACTIVITY 3 : CREATE TASK OBJECT**

- From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.
- Enter the label name>> Task
- Plural label name>> Tasks
- Enter Record Name Label and Format
- Record Name >> Task Name
- Data Type >> Text
- Click on Allow reports and Track Field History,Allow Activities
- Allow search >> Save.



## **ACTIVITY 4: CREATE VOLUNTEER OBJECT:**

- From the setup page >> Click on Object Manager>> Click on Create >> Click on Custom Object.
- Enter the label name>> Volunteer
- Plural label name>> Volunteers
- Enter Record Name Label and Format
- Record Name >> Volunteer Name
- Data Type >> Text
- Click on Allow reports and Track Field History, Allow Activities
- Allow search >> Save

## **ACTIVITY 5 :CREATE EXECUTION DETAILS OBJECT**

- From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.
- Enter the label name >> Execution Detail
- Plural label name >> Execution Details
- Enter Record Name Label and Format
- Record Name >> Execution Detail Name
- Data Type >> Text
- Click on Allow reports and Track Field History, Allow Activities
- Allow search >> Save

## **MILESTONE 3 : TABS**

What is Tab : A tab is like a user interface that is used to build records for objects and to view the records in the objects.

### **ACTIVITY 1 :CREATING A CUSTOM TAB**

To create a Tab:(Venue)

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

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 .

Make sure that the Append tab to users' existing personal customizations is checked.



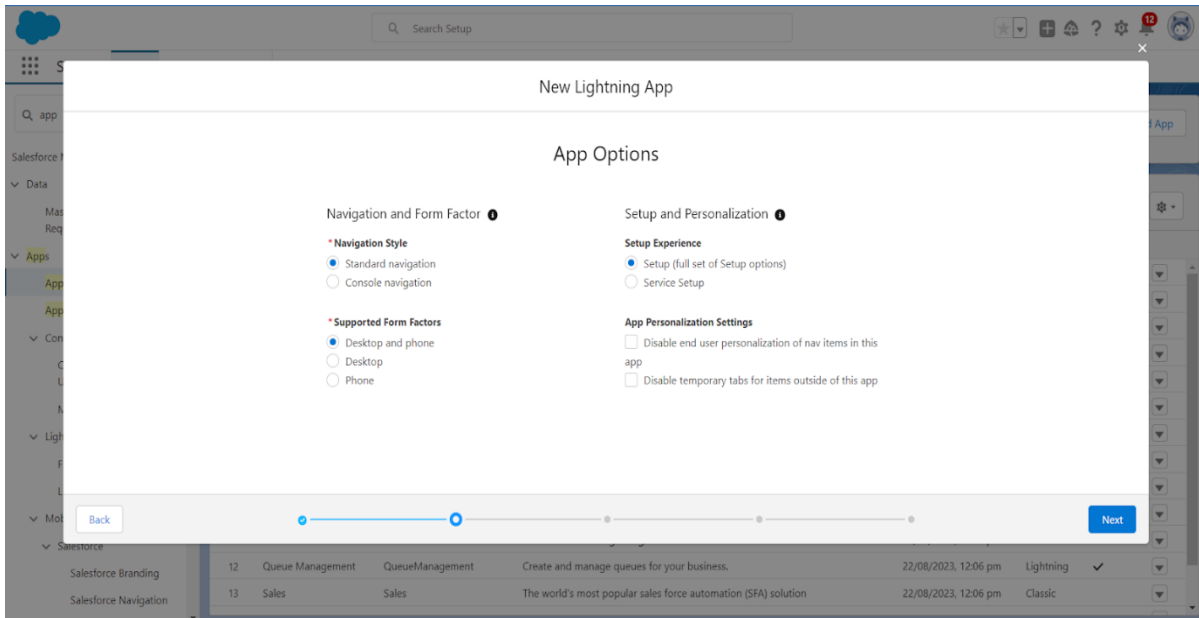
- Fill the app name in app details and branding as follow

App Name : FoodConnect

Developer Name : This will auto populated

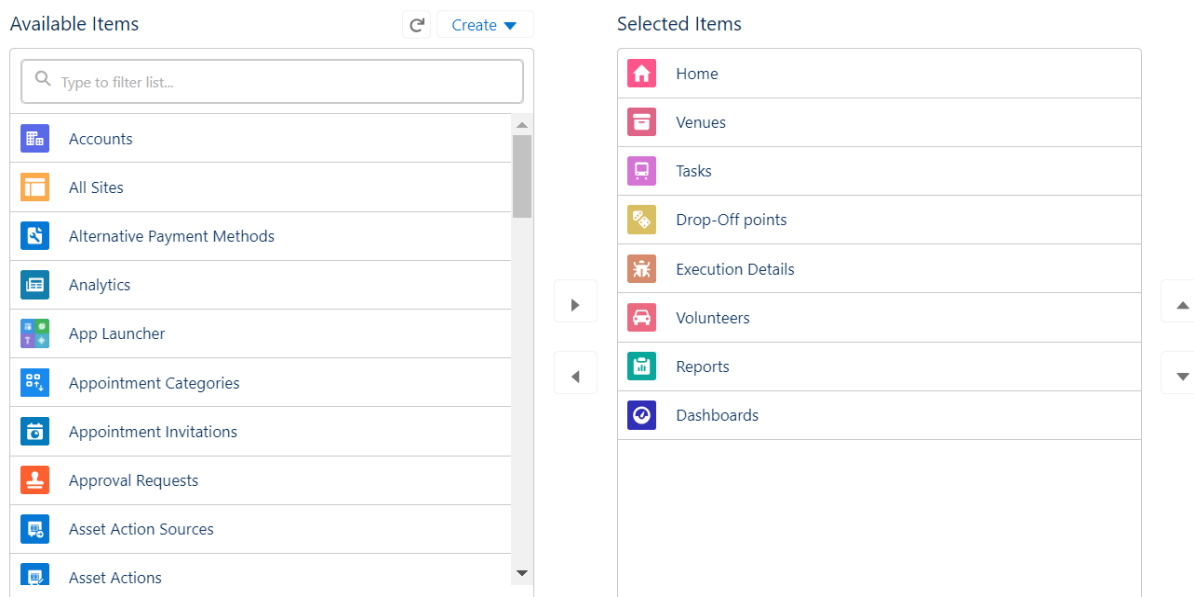
Image : optional (if you want to give any image you can otherwise not mandatory) Primary color hex value : keep this default.

Then click Next >> (App option page)Set Navigation Style as Standard Navigation >> Next.



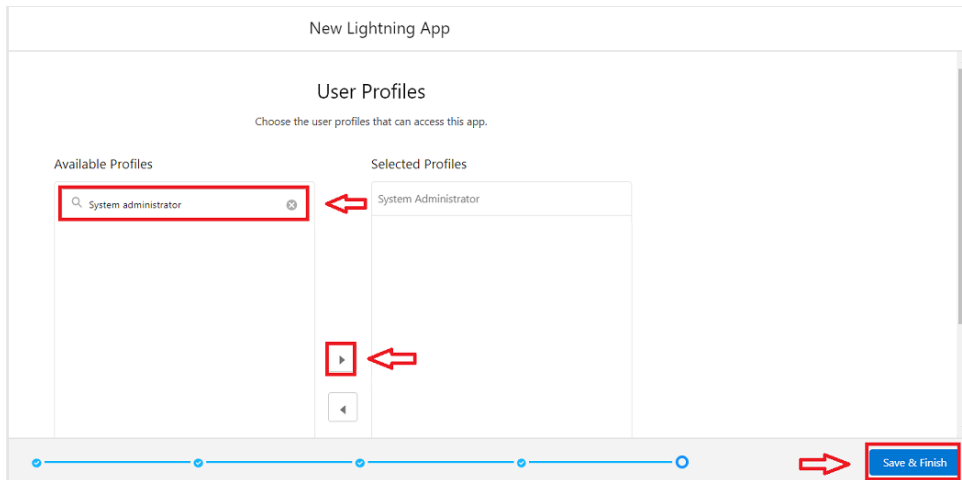
(Utility Items) keep it as default >> Next.

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.

To Add User Profiles:



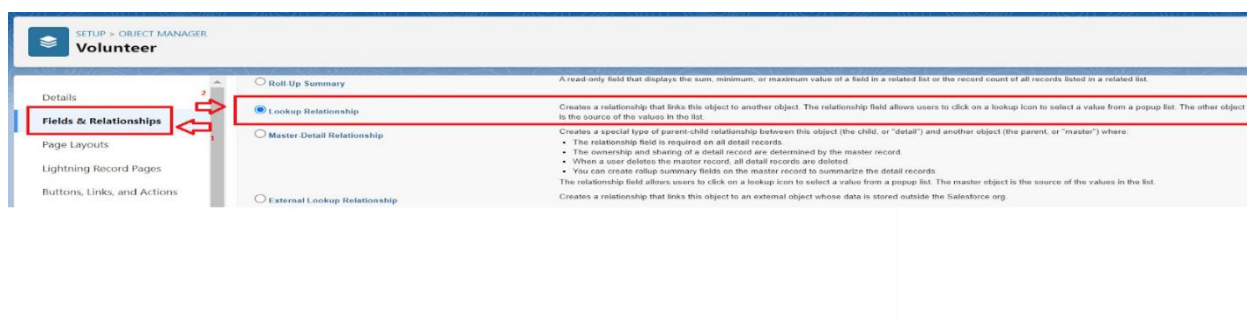
Search profiles (System administrator) in the search bar >> click on the arrow button >> save & finish.

## **MILESTONE 5: FIELDS**

### **ACTIVITY 1: CREATION OF RELATIONSHIP FIELDS IN OBJECTS:-**

#### **Creation of Lookup Relationship Field on Volunteer Object :**

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



Now click on “Fields & Relationships” >> New

Select Master Detail relationship

Select the related object “Drop-Off point” and click next.

Step 2. Choose the related object

Step 2

Previous Next Cancel

Select the other object to which this object is related.

Related To Drop-Off point

Previous Next Cancel

Field Name : Drop\_Off\_point

Field label : Auto generated

Next >> Next >> Save.

### Creation of Master Detail Relationship Field on Execution Details Object :

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

- Now click on “Fields & Relationships” >> New
- Select Master Detail relationship
- Select the related object “Volunteer” and click next.
- Field Name : Volunteer
- Field label : Auto generated
- Next >> Next >> Save.

### Creation of Master Detail Relationship Field on Execution Details Object :

- Go to setup >> click on Object Manager >> type object name(Execution Details) in the search bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Master Detail relationship
- Select the related object “Task” and click next.
- Field Name : Task
- Field label : Auto generated
- Next >> Next >> Save.

### Creation of Lookup Relationship Field on Drop-Off Point Object :

- Go to setup >> click on Object Manager >> type object name(Drop-Off Point) in the search bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Lookup relationship

- Select the related object “Venue” and click next.
- Field Name : Venue
- Field label : Venue\_\_c
- Next >> Next >> Save.

### **Creation of Lookup Relationship Field on Task Object :**

- Go to setup>> click on Object Manager >> type object name(Task) in the search bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Lookup relationship
- Select the related object “Venue” and click next.
- Field Name : Sponsored By
- Field label : Auto generated
- Next >> Next >> Save.

### **Creation of Lookup Relationship Field on Task Object :**

- Go to setup>> click on Object Manager >> type object name(Task) in the search bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Lookup relationship
- Select the related object “Drop-Off point” and click next.
- Field Name : Drop-Off point
- Field label : Auto generated
- Next >> Next >> Save.

### **ACTIVITY 2 :CREATION OF FIELDS FOR THE VENUE OBJECT**

- Go to setup>> click on Object Manager >> type object name(Venue) in search bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Data type as a “Email” and Click on Next
- 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:**

- Go to setup >> click on Object Manager >> type object name(Venue) in search bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Data type as a “Phone” and Click on Next
- 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:**

- Go to setup >> click on Object Manager >> type object name(Venue) in search bar >>click on the object.
- Now click on “Fields & Relationships” >> New
- Select Data type as a “Geolocation” and Click on Next
- 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:**

- Go to setup >> click on Object Manager >> type object name(Venue) in search bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Data type as a “Long Text Area” and Click on Next
- Fill the Above as following:
- Field Label : Venue Location
- Field Name : Venue\_Location
- Click on Next >> Next >> Save and new.

### **ACTIVITY 3 :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.
- Now click on “Fields & Relationships” >> New
- Select Data type as a “Geolocation” and Click on Next
- 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:**

- Go to setup >> click on Object Manager >> type object name(Drop-Off point) in search bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Data type as a “Formula” and Click on Next
- 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.

**Formula Options**

Formula Return Type: **Number**

Decimal Places: **4**

Enter your formula and click Check Syntax to check for errors. Click the Advanced Formula subtab to use additional fields, operators, and functions.  
**Example:** `Fahrenheit = 1.8 * Celsius__c + 32` [More Examples...](#)

**Simple Formula** **Advanced Formula**

Insert Field Insert Operator ▼

distance calaculation (Number) =  
`DISTANCE( Location_2__c , Venue__r.Location__c , 'km')`



### **To create another fields in an object:**

- Go to setup >> click on Object Manager >> type object name(Drop-Off point) in search bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Data type as a “Picklist” and Click on Next
- 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:**

- Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Data type as a “Number” and Click on Next
- 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.

### **ACTIVITY 4 : 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.
- Now click on “Fields & Relationships” >> New
- Select Data type as a “Auto Number” and Click on Next
- 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:**

- Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Data type as a “Date” and Click on Next
- 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:**

- Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Data type as a “Picklist (Multi-Select)” and Click on Next
- 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:**

- Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Data type as a “Number” and Click on Next
- 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:**

- Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Data type as a “Text” and Click on Next
- 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:**

- Go to setup>> click on Object Manager >> type object name(Task) in search bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Data type as a “Phone” and Click on Next
- 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:**

- Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Data type as a “Pick List” and Click on Next
- 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:**

- Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Data type as a “Long Text Area” and Click on Next
- Fill the Above as following:
- Field Label : Feedback
- Field Name : Feedback
- Click on Next >> Next >> Save and new.

## **ACTIVITY 5 :CREATION OF FIELDS FOR THE VOLUNTEER OBJECT**

- Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Data type as a “Auto Number” and Click on Next
- 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:**

- Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Data type as a “Picklist” and Click on Next
- 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.

### **To create another fields in an object:**

- Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Data type as a “Date” and Click on Next
- 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.

### **To create another fields in an object:**

- Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Data type as a “Number” and Click on Next
- 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:**

- Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Data type as a “Email” and Click on Next
- 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:**

- Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Data type as a “Number” and Click on Next
- 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:**

- Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Data type as a “Text Area (Long)” and Click on Next
- 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:**

- Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
- Now click on “Fields & Relationships” >> New
- Select Data type as a “Date” and Click on Next
- Fill the Above as following:
- Field Label : Date of Birth
- Field Name : Date\_of\_Birth
- Click on Next >> Next >> Save and new.

## **ACTIVITY : 6 CREATION OF FIELDS FOR THE EXECUTION DETAILS OBJECT**

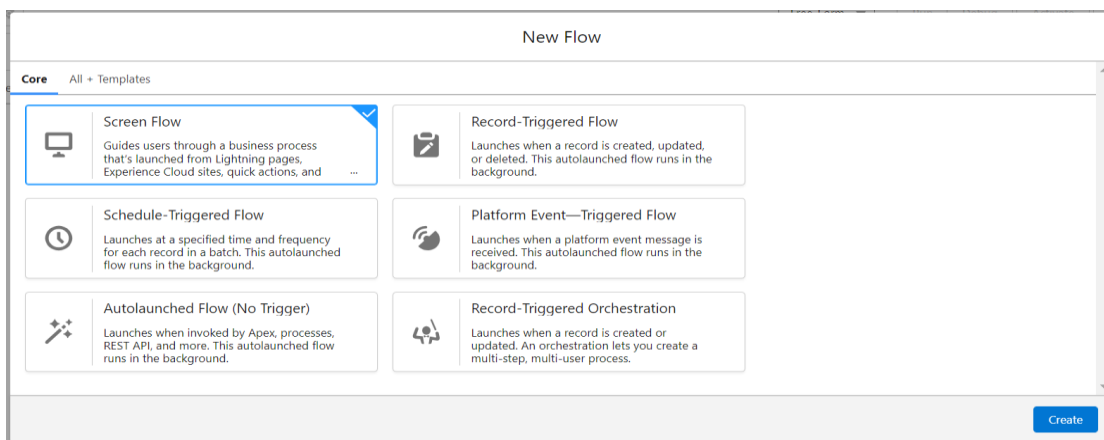
- go to setup >> click on object manager >> type object name(volunteer) in search bar >> click on the object.
- now click on “fields & relationships” >> new
- select data type as a “auto number” and click on next
- fill the above as following:
- field label : execution id
- field name : gets auto generated
- click on required check box
- click on next >> next >> save and new.

## **MILESTONE 6: FLOWS**

### **ACTIVITY 1 : CREATE FLOW TO CREATE A RECORD IN VENUE OBJECT:**

Go to setup >> type Flow in quick find box >> Click on the Flow and Select the New Flow.

Select the Screen flow. Click on create.



Click on the ‘+’ icon in between start and end, and click on screen element.

Under the Screen Properties:

- Label : Venue Details
- API Name : Venue\_Details

Now lets add components in this flow. Click on Text Component and name it as:

- Label : Venue Name
- API Name : Venue\_Name

Click on Email Component and name it as:



Label : Email

API Name : Contact\_Email

Click on Phone Component and name it as:

- Label : Phone
- API Name : Contact\_Phone

Click on Text Component and name it as:

- Label : Venue Location
- API Name : Venue\_Location

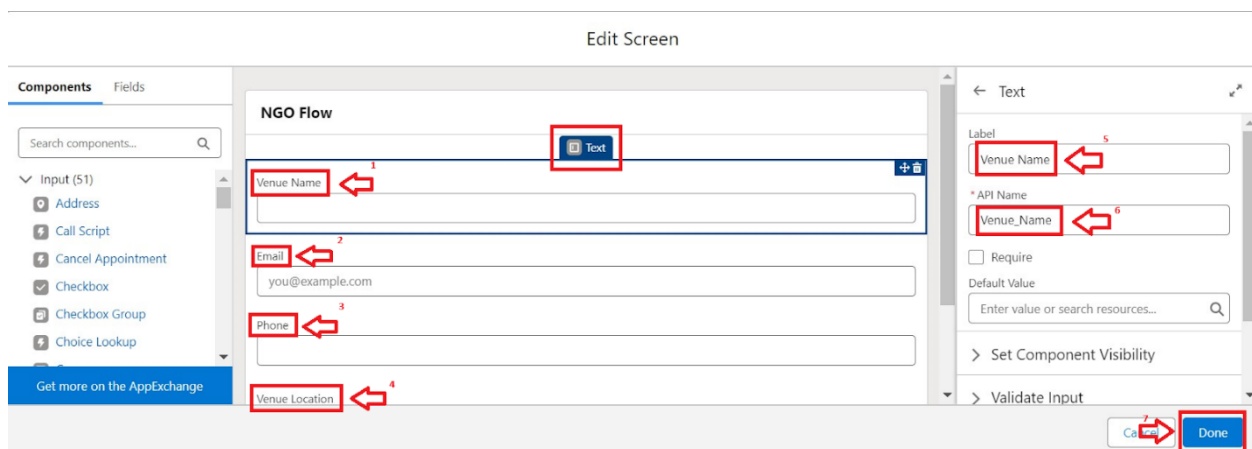
Click on Number Component and name it as:

- Label : Latitude
- API Name : Latitude

Click on Number Component and name it as:

- Label : longitude
- API Name : longitude

Next click on Done. This would like below



Click on the '+' icon in between Venue details and end, and click on create record element.

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:

Create a Record of This Object

\* Object  
Venue

Set Field Values for the Venue

Field	Value
Contact_Email__c	A_a Contact_Email > Value X
Contact_Phone__c	A_a Contact_Phone > Value X
Name	A_a Venue_Name X
Venue_Location__c	A_a location X

Click on Save as:

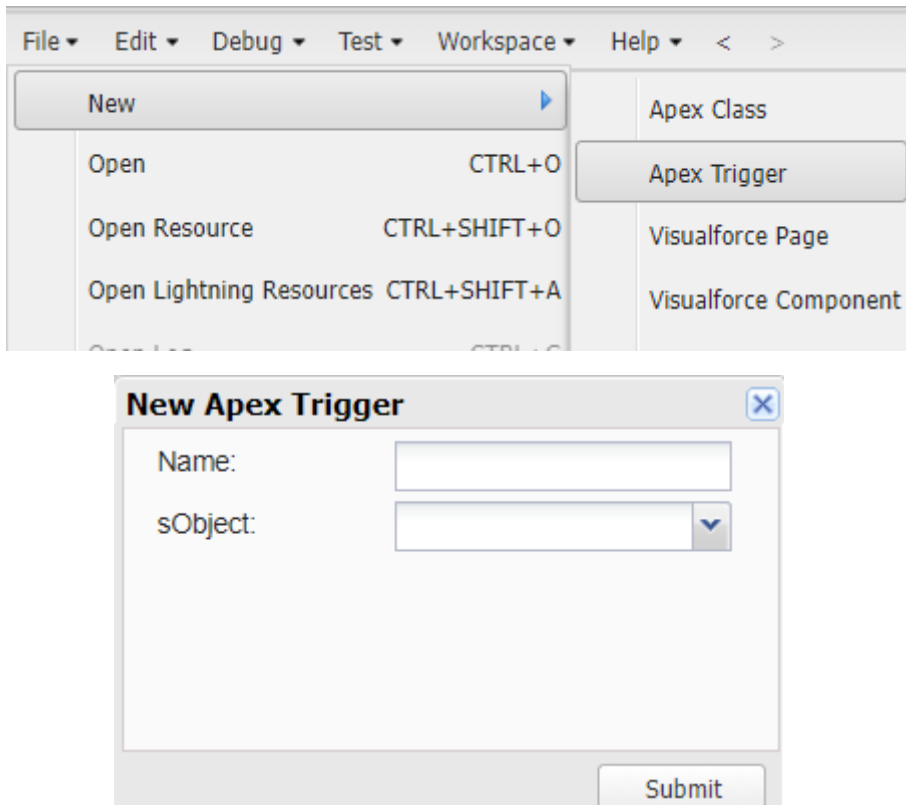
Flow Label : Venue Form

Flow API Name : Venue\_Form.

## **MILESTONE 7: TRIGGER :-**

### **ACTIVITY 1: CREATE A TRIGGER :**

- Log into the trailhead account, navigate to the gear icon in the top right corner.
- Click on developer console and you will be navigated to a new console window.
- Click on the File menu in the toolbar, and click on new >> Trigger.
- Enter the trigger name and the object to be triggered.



Enter Name : DropOffTrigger

sObject: Drop-Off Point

Click on Submit.

## **ACTIVITY 2: TRIGGER CODE :**

(This Trigger is to assign the 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;
    }
}
```

## **PHASE 4 : DATA HANDLING, TESTING & SECURITY**

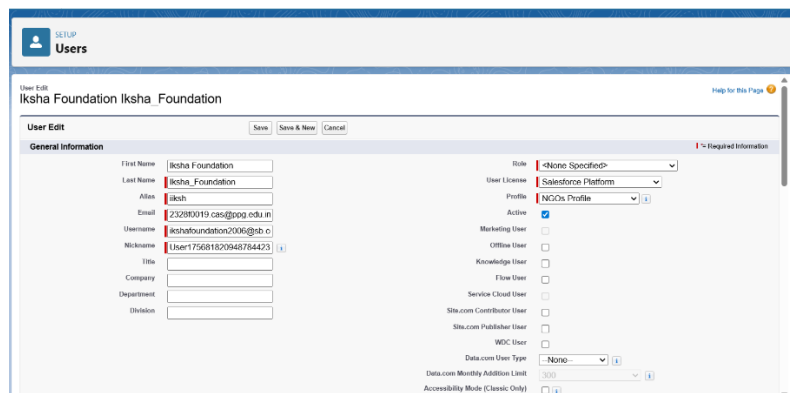
### **MILESTONE 8 : PROFILES**

- Go to setup page >> type Profiles in Quick Find bar >> click on Profiles >> click on 'S'
- Click on Clone beside Standard Platform User.
- Under Clone Profile:
- Profile Name : NGOs Profile
- Then click on Save.

## MILESTONE 9 : CREATION OF USERS :-

### ACTIVITY 1 : CREATION OF USER 1

- Go to setup page >> type users in Quick Find bar >> click on users>> New user.
- In General Information give details as: (Note : create users as per your wish NGO's)
- First Name : Iksha Foundation
- Last Name : Iksha\_Foundation
- Alias : iiksh
- Email : Give Your Email
- Username : [ikshafoundation@sb.com](mailto:ikshafoundation@sb.com) (give the username different)
- Nickname : Auto Populated
- User License : Salesforce Platform
- Profile : NGOs Profile
- Active : Check



- Click on Save

### ACTIVITY 2 : CREATION OF USER2, USER3

Create another Two Users by following steps in Activity - 1 with similar User License and Profile.

Give Different First Name, Last Name based on Different NGO's.

<a href="#">Edit</a>   <a href="#">Login</a>	<a href="#">Iksha_Foundation, Iksha Foundation</a>	<a href="#">iiksh</a>	<a href="#">ikshafoundation@sb.com</a>	<input checked="" type="checkbox"/>	<a href="#">NGOs Profile</a>
<a href="#">Edit</a>   <a href="#">Login</a>	<a href="#">NSS, NSS</a>	<a href="#">nss</a>	<a href="#">nss@sb.com</a>	<input checked="" type="checkbox"/>	<a href="#">NGOs Profile</a>
<a href="#">Edit</a>   <a href="#">Login</a>	<a href="#">Street_Cause, Street Cause</a>	<a href="#">sstre</a>	<a href="#">streetcause@sb.com</a>	<input checked="" type="checkbox"/>	<a href="#">NGOs Profile</a>

## **MILESTONE 10 : PUBLIC GROUPS**

### **ACTIVITY 1 : CREATION OF PUBLIC GROUP 1 :**

- Go to setup page >> type Public Groups in Quick Find bar >> click on Public Groups >> click on New.
- Under Group Information:
- Label : Iksha
- Group Name : Iksha
- Grant Access Using Hierarchies : Check
- In Search, Select Users.
- In Selected Members Add Iksha Foundation and System Administrator

### **ACTIVITY 2 : CREATION OF PUBLIC GROUP 2**

By Following Steps in Activity 1, Create other two Public Groups for other two users.

After Saving this would look like this.

New				
Action	Label ↑	Group Name	Created By	Created Date
<a href="#">Edit</a>   <a href="#">Del</a>	Iksha	Iksha	Bhargavi_Paila	26/03/2024, 2:27 pm
<a href="#">Edit</a>   <a href="#">Del</a>	NSS	NSS	Bhargavi_Paila	26/03/2024, 2:27 pm
<a href="#">Edit</a>   <a href="#">Del</a>	Street_Cause	Street_Cause	Bhargavi_Paila	26/03/2024, 2:26 pm

## **MILESTONE 11: REPORT TYPES :**

### **ACTIVITY 1: CREATION OF VENUE WITH DROPOFF WITH VOLUNTEER REPORTS :**

- Go to setup page >> type Report Types in Quick Find bar >> click on Report Types >> click on Continue >> Click on New Custom Report Type.
- In Define the Custom Report Type:
- Primary Object : Select Venues
- Report Type Label : Venue with DropOff with Volunteer
- Report Type Name : Venue\_with\_DropOff\_with\_Volunteer
- Description : Venue with DropOff with Volunteer
- Store in Category : Select Other Reports
- Deployment Status : Deployed
- Click on Next
- Near Click to relate another Object Select Drop-Off Points.

- And also select "A" records may or may not have related "B" records.
- Now again Near Click to relate another Object Select Volunteers.
- Now click on Save.

## **ACTIVITY 2 : CREATION OF VOLUNTEERS WITH EXECUTION DETAILS AND TASKS :**

- Go to setup page >> type Report Types in Quick Find bar >> click on Report Types >> click on Continue >> Click on New Custom Report Type.
- In Define the Custom Report Type:
- Primary Object : Select Volunteer
- Report Type Label : Volunteers with Execution Details and Tasks
- Report Type Name :Volunteers\_with\_Execution\_Details\_and\_Tasks
- Description : Volunteers with Execution Details and Tasks
- Store in Category : Select Other Reports
- Deployment Status : Deployed
- Click on Next
- Near Click to relate another Object Select Execution Details.
- And also select "A" records may or may not have related "B" records. 6. Now click on Save.

## **MILESTONE 12 : REPORTS :**

### **ACTIVITY 1 : CREATION OF REPORT ON VENUE WITH DROPOFF WITH VOLUNTEER**

- Go to the app(FoodConnect) >> click on the reports tab
- Click on New Folder.
- Folder Label : Custom Reports
- Folder Unique Name : CustomReports
- Open Custom Reports and click on New Report
- Select Report Type : Venue with DropOff with Volunteer
- Then click on Start Report.
- In GROUP ROWS : Add Volunteer Name
- In Columns : Add Venue Name, Drop-Off point Name, Distance.

<b>Outline</b> <span>Filters 2</span>		<span>Previewing a limited number of records. Run the report to see everything.</span>	
<b>Groups</b>		<b>Volunteer Name</b>	
GROUP ROWS		<b>Venue Name</b>	
Add group...		<b>Drop-Off point Name</b>	
Volunteer Name		<b>Distance</b>	
GROUP COLUMNS			
Add group...			
<b>Columns</b>			
Add column...			
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

- Now click on Save & Run.
- Give Label as :
- Report Name : venue and Drop Off point
- Report Unique Name : Auto Populated
- Click on Select Folder and select Custom Report, then click on Save.

## ACTIVITY 2 :CREATION OF REPORT ON VOLUNTEERS WITH EXECUTION DETAILS AND TASKS

- Go to the app(FoodConnect) >> click on the reports tab
- Click on Custom Reports Folder and click on New Report
- Select Report Type : Volunteers with Execution Details and Tasks.
- Then click on Start Report.
- In GROUP ROWS : Volunteer ID
- In Columns : Add Volunteer : Volunteer Name, Task : Task Name, Execution Detail : Execution Detail Name, Volunteer: Owner Name, Task: Date, Task : Rating.

<b>REPORT</b>		<span>Previewing a limited number of records. Run the report to see everything.</span>	
<b>Volunteer Task</b>		<span>Update Preview Automatically</span>	
<b>Outline</b>		<b>Volunteer ID</b>	
GROUP ROWS		<b>Volunteer: Volunteer Name</b>	
Add group...		<b>Task: Task Name</b>	
Volunteer ID		<b>Execution Detail: Execution Detail Name</b>	
GROUP COLUMNS		<b>Volunteer: Owner Name</b>	
Add group...		<b>Task: Date</b>	
<b>Columns</b>		<b>Task: Rating</b>	
Add column...			
Volunteer: Volunteer Name			
Task: Task Name			
Execution Detail: Execution Detail Name			
Volunteer: Owner Name			
Task: Date			
Task: Rating			

2 (1)	Chetan	Task 2	Execution 2	Isha Foundation Isha_Foundation	28/03/2024	5
<b>Subtotal</b>						
4 (1)	Ishaika	Task 1	Execution 1	Isha Foundation Isha_Foundation	28/03/2024	4
<b>Subtotal</b>						
<b>Total (2)</b>						

- Now click on Save & Run.
- Give Label as :
- Report Name : Volunteer Task
- Report Unique Name : Auto Populated
- Click on Select Folder and select Custom Report, then click on Save.

## **MILESTONE 13 : DASHBOARDS :-**

### **ACTIVITY 1 : ADDING VENUE AND DROP OFF POINT REPORT TO THE DASHBOARD :**

- Go to the app(FoodConnect) >> click on the Dashboards tab.
- Click on New Folder.
- Folder Label : Custom Dashboards
- Folder Unique Name : Auto Populated
- Open Custom Dashboards and click on New Dashboards
- Name : Organization Details
- Click on Widget and select Chart or Table
- In Select Report : Select venue and Drop Off point Report.
- Then click on select
- In Add Component:
- Display As : Select Lightning Table
- Component Theme : Select Dark (Optional)

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	-	-

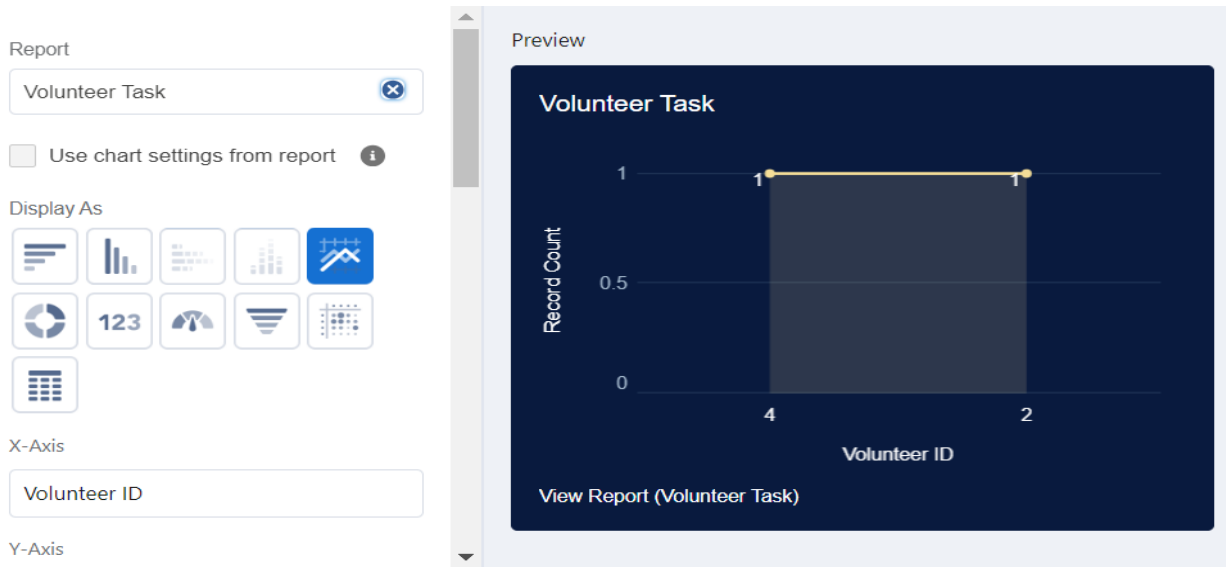
View Report (venue and Drop Off point)

Now click on save.



## **ACTIVITY 2 :ADDING VOLUNTEER TASK REPORT TO THE DASHBOARD**

- Click on Widget and select Chart or Table
- In Select Report : Select Volunteer Task Report.
- Then click on select
- In Add Component:
- Display As : Select Line Chart
- Component Theme : Select Dark (Optional)



Now click on save.

## **ACTIVITY 3 : ADDING A PICTURE TO THE DASHBOARD (OPTIONAL)**

- (Note : To upload an image into the Dashboard, we have to first download an image from google or other sources into your system)
- Click on Widget and select Image. Then click on Browse Files.
- Then Select the Picture you want to upload in this Dashboard.
- Then click on Save As :
- Name : Task Execution Details
- Click on Select Folder and select Custom Dashboards
- Click on Select Folder and then Save.

## **MILESTONE 14 : SHARING RULES :**

### **ACTIVITY 1 : CREATION OF SHARING RULES**

Go to setup >> type Sharing Settings in quick find box >> Click on the Sharing Settings.

Scroll down and find Drop-Off point Sharing Rules.

- Click on new near Drop-Off point Sharing Rules and Name it as:
- Label : Rule 1
- Rule Name : Rule\_1
- Select your rule type : Select Based on criteria.
- Select which records to be shared:
- Field : Operator : Value = Distance : less than : 15
- Select the users to share with : Near Share With
- Public Groups : Iksha
- Click on Save.
- Click on new near Drop-Off point Sharing Rules and Name it as:
- Label : Rule 2
- Rule Name : Rule\_2
- Select your rule type : Select Based on criteria.
- Select which records to be shared:
- Field : Operator : Value = Distance : greater than : 15
- Field : Operator : Value = Distance : less or equal : 30
- Select the users to share with : Near Share With
- Public Groups : NSS
- Click on Save.
- Click on new near Drop-Off point Sharing Rules and Name it as:
- Label : Rule 3
- Rule Name : Rule\_3
- Select your rule type : Select Based on criteria.
- Select which records to be shared:
- Field : Operator : Value = Distance : greater than : 30
- Field : Operator : Value = Distance : less or equal : 50
- Select the users to share with : Near Share With
- Public Groups : Street Cause
- Click on Save.

## Drop-Off point Sharing Rules

New Recalculate

Drop-Off point Sharing Rules Help ?

Action	Criteria	Shared With	Access Level
<a href="#">Edit</a>   <a href="#">Del</a>	Drop-Off point: Distance LESS OR EQUAL 15	<a href="#">Group: Iksha</a>	Read/Write
<a href="#">Edit</a>   <a href="#">Del</a>	(Drop-Off point: Distance GREATER THAN 15) AND (Drop-Off point: Distance LESS OR EQUAL 30)	<a href="#">Group: NSS</a>	Read/Write
<a href="#">Edit</a>   <a href="#">Del</a>	(Drop-Off point: Distance GREATER THAN 30) AND (Drop-Off point: Distance LESS OR EQUAL 50)	<a href="#">Group: Street Cause</a>	Read/Write

## PHASE 5 : DATA HANDLING, TESTING & SECURITY

### MILESTONE 15 : HOME PAGE

#### ACTIVITY 1 : CREATION OF HOME PAGE

- Go to setup >> type Lightning App Builder in quick find box >> Click on the Lightning App Builder and Select the New.
- Select Home Page and give Label as HOME Page.
- Select Standard Home Page.
- Near Components search for Flow and Drag and Drop in Right Side Section..
- On the right hand side:
- Flow : Venue Flow
- Near Components search for Dashboard, then Drag and Drop it in first Section.

The screenshot displays the Lightning App Builder interface for the Home Page. The page is titled "FoodConnect" and includes a navigation menu with options like Home, Venues, Tasks, Drop-Off Points, Execution Details, Volunteers, Reports, and Dashboards. The main content area is divided into three sections:

- venue and Drop Off point:** A table showing venue details.
 

Venue Name	Drop...	Di...
Greenfield Banquet	Lakeside	3.25
Ocean View Auditorium +91 9988776655 78 Beach A	Oceanfront Drop...	1.80
Sunshine Community Hall	Central Park Drop...	2.50
- Volunteer Task:** A bar chart showing record counts for different volunteer IDs. The Y-axis is labeled "Record Count" and ranges from 0 to 1. The X-axis is labeled "Volunteer ID" and shows three IDs: #03d.0000..., #03d.0000..., and #03d.0000....
- Venue Form:** A form for creating or editing a venue. It includes fields for Venue Name, Email, Phone, Venue Location, Latitude, and Longitude. A "Next" button is at the bottom right.

## **CONCLUSION**

This project demonstrates how Salesforce can be effectively leveraged to build a transparent and reliable platform for managing surplus food distribution. By organizing volunteer efforts and ensuring timely delivery to recipients, the system not only reduces food wastage but also addresses hunger while maximizing resource efficiency. The initiative “**Supplying Leftover Food to the Poor Using Salesforce**” has been executed successfully and serves as a strong example of how CRM technology can be adapted to create impactful, socially responsible solutions.

## **PROJECT ACCOMPLISHMENTS**

- Established a structured process for collecting and redistributing excess food.
- Facilitated real-time coordination among donors, NGOs, and volunteers.
- Implemented automation through custom objects, workflows, flows, and Apex triggers.
- Increased transparency with reports, dashboards, and role-based visibility.
- Delivered an improved user experience using Lightning components, personalized home pages, and secure access controls.

## **STUDENT LEARNING OUTCOMES**

- Acquired practical skills in Salesforce customization, configuration, and application development.
- Improved analytical and problem-solving abilities by applying CRM tools to a real-world social challenge.

## **FUTURE ENHANCEMENTS**

- **Mobile Accessibility:** Introduce mobile app integration for easier donor and volunteer participation.
- **AI & Predictive Tools:** Incorporate artificial intelligence and data analytics to predict food demand and enhance allocation efficiency.
- **Expanded Collaborations:** Partner with additional NGOs, restaurants, and community organizations to strengthen the supply chain.
- **Geographical Scaling:** Extend the platform’s operations across different regions to broaden its reach and impact.