

To supply leftover food to poor

College Name: Bishop Thorp Collage

College Code:BRU14

TEAM ID: NM2025TMI024605

TEAM MEMBERS: 4

Team LeaderName: YAMINI S

Email:chandraselvaraj1010@gmail.

com

Team member 1:SASIPRIVA K

Email:sasi22632@gmail.com

Team Member 2:DURGA BHARATHI.S

Email: durgas95829@gmail.com

Team member 3:ABI.M

Email:abikutty77321@gmail.com

1. INTRODUCTION

1.1 Project Overview

To create an object:

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

Create Drop-Off Point Object



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To create an object:

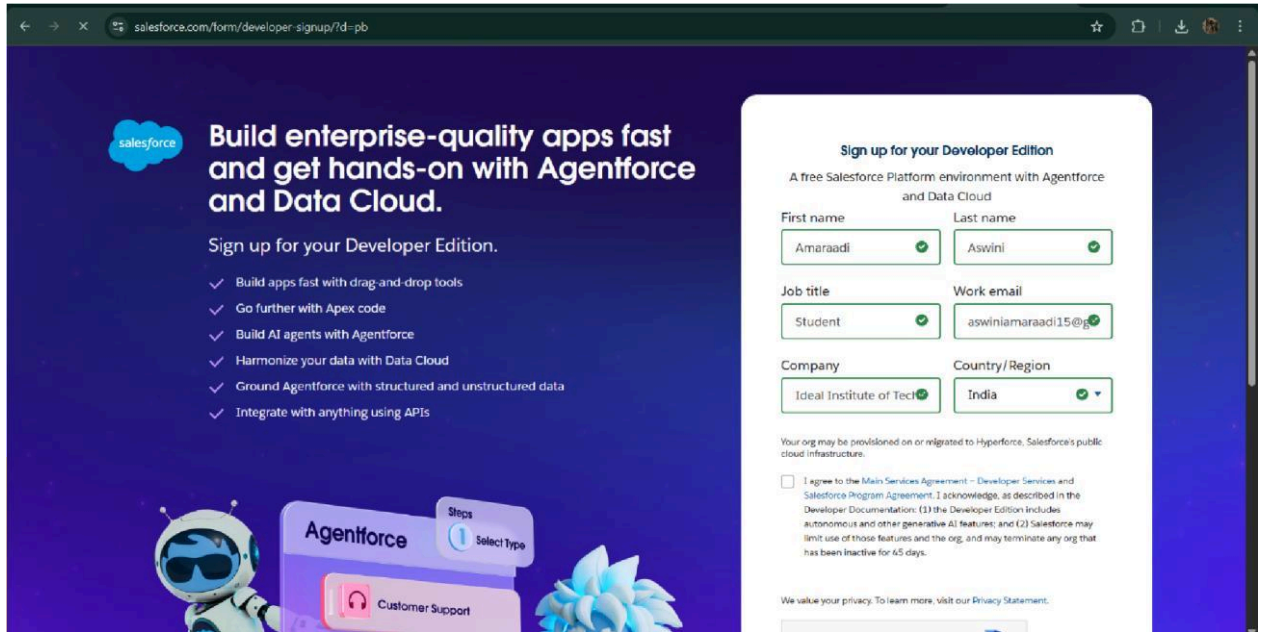
1. *From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.*
1. *Enter the label name >> Drop-Off Point*
2. *Plural label name>> Drop-Off Points*
3. *Enter Record Name Label and Format*
2. *Click on Allow reports and Track Field History,Allow Activities*
3. *Allow search >> Save.*



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Company: Ideal Institute of Tech ✓ Country/Region: India ✓

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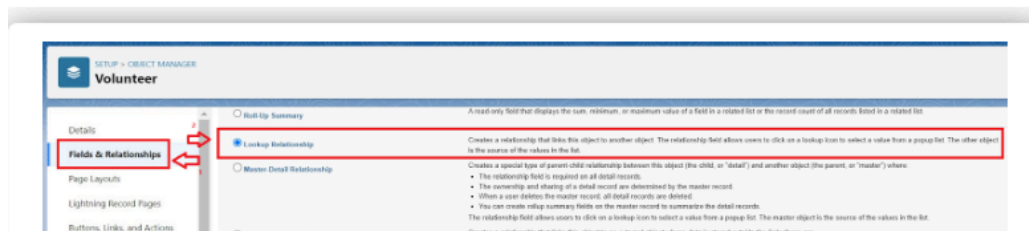
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- **Created objects: Property, Tenant, Lease, Payment**

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.



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Create Task Object

To create an object:

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



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Create Drop-Off Point Object

To create an object:

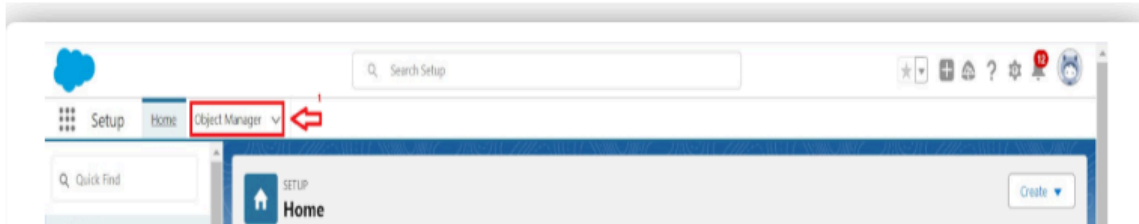
1. From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.
 1. Enter the label name >> Drop-Off Point
 2. Plural label name>> Drop-Off Points
 3. Enter Record Name Label and Format
 - Record Name >> Drop-Off point Name
 - Data Type >> Text
2. Click on Allow reports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



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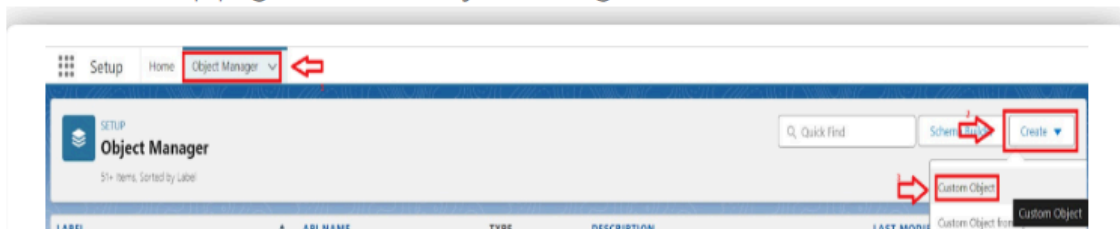
Object

To Navigate to Setup page:

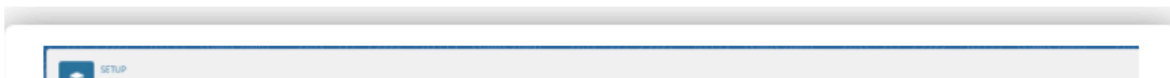


To create an object:

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



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



Creation of Master Detail Relationship Field on Execution Details Object :

8. Go to setup >> click on Object Manager >> type object name(Execution Details) in the search bar >> click on the object.
9. Now click on "Fields & Relationships" >> New
10. Select Master Detail relationship
11. Select the related object "Volunteer" and click next.
12. Field Name : Volunteer
13. Field label : Auto generated
14. Next >> Next >> Save.

Creation of Master Detail Relationship Field on Execution Details Object :

15. Go to setup >> click on Object Manager >> type object name(Execution Details) in the search bar >> click on the object.
16. Now click on "Fields & Relationships" >> New
17. Select Master Detail relationship
18. Select the related object "Task" and click next.
19. Field Name : Task
20. Field label : Auto generated
21. Next >> Next >> Save.

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

22. Go to setup >> click on Object Manager >> type object name(Drop-Off Point) in the search bar >> click on the object.



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23. Now click on "Fields & Relationships" >> New
24. Select Lookup relationship
25. Select the related object "Venue" and click next.
26. Field Name : Venue
27. Field label : Venue__c
28. Next >> Next >> Save.

Creation of Lookup Relationship Field on Task Object :

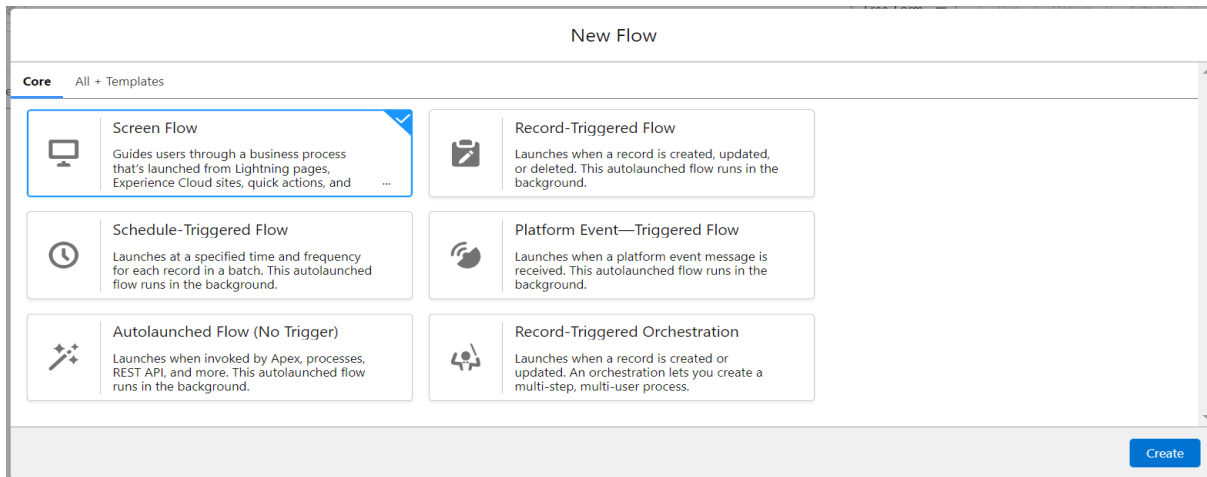
29. Go to setup>> click on Object Manager >> type object name(Task) in the search bar >> click on the object.
30. Now click on "Fields & Relationships" >> New
31. Select Lookup relationship
32. Select the related object "Venue" and click next.
33. Field Name : Sponsored By
34. Field label : Auto generated
35. Next >> Next >> Save.

Creation of Lookup Relationship Field on Task Object :

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



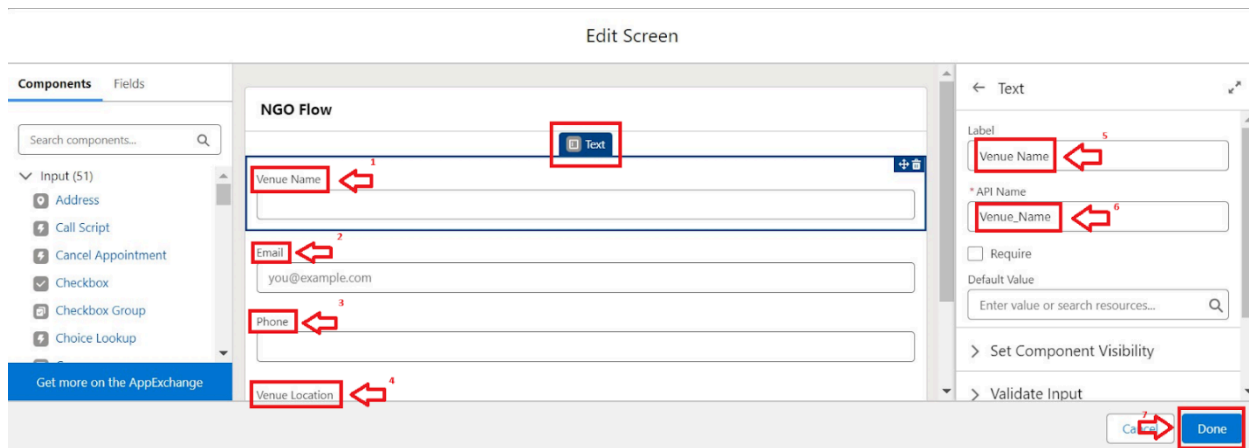
1. Go to setup >> type Flow in quick find box >> Click on the Flow and Select the New Flow.
2. Select the Screen flow. Click on create.



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
11. Next click on Done. This would like below



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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}

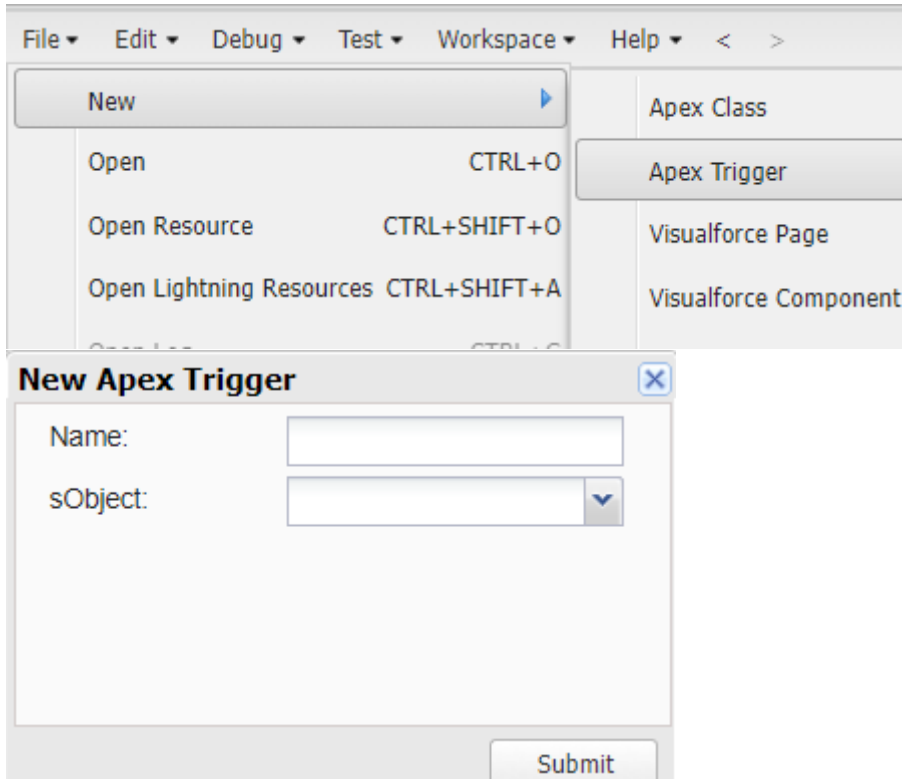
14. This would look like:



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Create a Trigger

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



5. Enter Name : DropOffTrigger
sObject: Drop-Off Point
6. Click on Submit.



Trigger Code

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



Creation of User1

1. Go to setup page >> type users in Quick Find bar >> click on users>> New user.
2. 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 (give the username different)

Nickname : Auto Populated

User License : Salesforce Platform

Profile : NGOs Profile

Active : Check

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

3. Click on Save



Creation of User2, User3

1. Create another Two Users by following steps in Activity - 1 with similar User License and Profile.
2. Give Different First Name, Last Name based on Different NGO's.

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



Creation of Public Group 1

1. Go to setup page >> type Public Groups in Quick Find bar >> click on Public Groups >> click on New.
2. Under Group Information:

Label : Iksha

Group Name : Iksha

Grant Access Using Hierarchies : Check

3. In Search, Select Users.
4. In Selected Members Add Iksha Foundation and System Administrator

Creation of Public Group 2

1. By Following Steps in Activity 1, Create other two Public Groups for other two users.
2. After Saving this would look like this.

New				
Action	Label ↑	Group Name	Created By	Created Date
Edit Del	Iksha	Iksha	Bhargavi, Paila	26/03/2024, 2:27 pm
Edit Del	NSS	NSS	Bhargavi, Paila	26/03/2024, 2:27 pm
Edit Del	Street Cause	Street_Cause	Bhargavi, Paila	26/03/2024, 2:26 pm



Creation of Report Types

1. Go to setup page >> type Report Types in Quick Find bar >> click on Report Types >> click on Continue >> Click on New Custom Report Type.

2. 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

3. Click on Next
4. Near Click to relate another Object Select Drop-Off Points.
5. And also select "A" records may or may not have related "B" records.
6. Now again Near Click to relate another Object Select Volunteers.
7. Now click on Save.



Creation of Report on Venue with DropOff with Volunteer

1. Go to the app(FoodConnect) >> click on the reports tab
2. Click on New Folder.

Folder Label : Custom Reports

Folder Unique Name : CustomReports

3. Open Custom Reports and click on New Report
4. Select Report Type : Venue with DropOff with Volunteer
5. Then click on Start Report.
6. In GROUP ROWS : Add Volunteer Name
7. In Columns : Add Venue Name, Drop-Off point Name, Distance.

Outline

Filters 2

Groups

GROUP ROWS

Add group...

Volunteer Name

GROUP COLUMNS

Add group...

Columns

Add column...

Venue Name

Drop-Off point Name

Distance

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

Volunteer Name	Venue Name	Drop-Off point Name	Distance
- (4)	La Royale Banquet Hall.	Shapur	5.1161
	La Royale Banquet Hall.	Jeedimetla	6,902.9995
	Paradise Garden Function Hall	Suraram Village	28.2332
	Ujwala Grand	-	-
Subtotal			6,936.3488
Total (4)			6,936.3488

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



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Creation of Report on Volunteers with Execution Details and Tasks

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

REPORT ▼

Volunteer Task Volunteers with Execution Details and Tasks

Volunteer ID ↑ Volunteer: Volunteer Name Task: Task Name Execution Detail: Execution Detail Name Volunteer: Owner Name Task: Date Task: Rating

2 (1) Charan Task 2 Execution 2 Iksha Foundation Iksha_Foundation 28/03/2024 5

Subtotal

4 (1) Bhavika Task 1 Execution 1 Iksha Foundation Iksha_Foundation 28/03/2024 4

Subtotal

Total (2)

Columns

Add column...

Volunteer: Volunteer Name X

Task: Task Name X

Execution Detail: Execution Detail X

Volunteer: Owner Name X

Task: Date X

Task: Rating X

Row Counts Detail Rows Subtotals Grand Total

7. Now click on Save & Run.

8. Give Label as :

Report Name : Volunteer Task

Report Unique Name : Auto Populated

1. Click on Select Folder and select Custom Report, then click on Save.



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Creation of Report on Volunteers with Execution Details and Tasks

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

REPORT ▼

Volunteer Task *Volunteers with Execution Details and Tasks*

Buttons: Add Chart, Save & Run, Save, Close, Run

Previewing a limited number of records. Run the report to see everything. Update Preview Automatically ☒

Volunteer ID	Volunteer: Volunteer Name	Task: Task Name	Execution Detail: Execution Detail Name	Volunteer: Owner Name	Task: Date	Task: Rating
2 (1)	Charan	Task 2	Execution 2	Iksha Foundation Iksha_Foundation	28/03/2024	5
Subtotal						
4 (1)	Bhavika	Task 1	Execution 1	Iksha Foundation Iksha_Foundation	28/03/2024	4
Subtotal						
Total (2)						

Fields: Outline, Filters, GROUP ROWS, GROUP COLUMNS, Columns

Columns: Add column..., Volunteer: Volunteer Name, Task: Task Name, Execution Detail: Execution Detail Name, Volunteer: Owner Name, Task: Date, Task: Rating

Row Counts ☒ Detail Rows ☒ Subtotals ☒ Grand Total ☒

7. Now click on Save & Run.
8. Give Label as :

Report Name : Volunteer Task

Report Unique Name : Auto Populated

1. Click on Select Folder and select Custom Report, then click on Save.



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1. Click on Widget and select Chart or Table
2. In Select Report : Select Volunteer Task Report.
3. Then click on select

In Add Component: Adding Volunteer Task Report to the Dashboard

4.

Display As : Select Line Chart

Component Theme : Select Dark (Optional)

Report

Volunteer Task

☐ Use chart settings from report

Display As



X-Axis

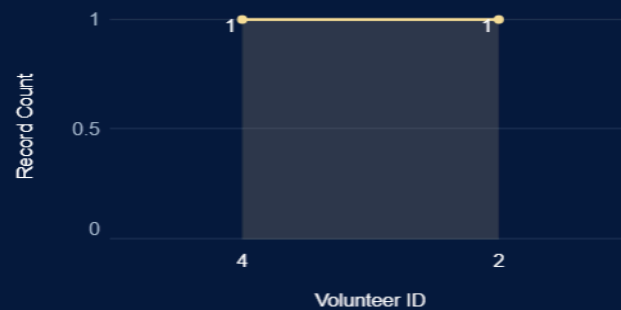
Volunteer ID

Y-Axis

1. Now click on save.

Preview

Volunteer Task



View Report (Volunteer Task)



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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)

1. Click on Widget and select Image. Then click on Browse Files.
2. Then Select the Picture you want to upload in this Dashboard.
3. Then click on Save As :

Name : Task Execution Details

Click on Select Folder and select Custom Dashboards

4. Click on Select Folder and then Save.



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Creation of sharing rules

1. Go to setup >> type Sharing Settings in quick find box >> Click on the Sharing Settings.
2. Scroll down and find Drop-Off point Sharing Rules.
3. Click on new near Drop-Off point Sharing Rules and Name it as:

Label : Rule 1

Rule Name : Rule_1

4. Select your rule type : Select Based on criteria.

5. Select which records to be shared:

Field : Operator : Value = Distance : less than : 15

6. Select the users to share with : Near Share With

Public Groups : Iksha

7. Click on Save.

8. Click on new near Drop-Off point Sharing Rules and Name it as:

Label : Rule 2

Rule Name : Rule_2

9. Select your rule type : Select Based on criteria.

10. Select which records to be shared:

Field : Operator : Value = Distance : greater than : 15

Field : Operator : Value = Distance : less or equal : 30

11. Select the users to share with : Near Share With

Public Groups : NSS

12. Click on Save.

13. Click on new near Drop-Off point Sharing Rules and Name it as:

Label : Rule 3

Rule Name : Rule_3

14. Select your rule type : Select Based on criteria.

15. Select which records to be shared:

Field : Operator : Value = Distance : greater than : 30

Field : Operator : Value = Distance : less or equal : 50

16. Select the users to share with : Near Share With

Public Groups : Street Cause

17. Click on Save.

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 OR EQUAL 15	Group: Iksha		Read/Write	
Edit Del	(Drop-Off point: Distance GREATER THAN 15) AND (Drop-Off point: Distance LESS OR EQUAL 30)	Group: NSS		Read/Write	
Edit Del	(Drop-Off point: Distance GREATER THAN 30) AND (Drop-Off point: Distance LESS OR EQUAL 50)	Group: Street Cause		Read/Write	



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Creation of Home Page

1. Go to setup >> type **Lightning App Builder** in quick find box >> Click on the **Lightning App Builder** and Select the **New**.
2. Select **Home Page** and give Label as **HOME Page**.
3. Select **Standard Home Page**.
4. Near Components search for **Flow** and **Drag and Drop** in Right Side Section..
5. On the right hand side:

Flow : Venue Flow

6. Near Components search for **Dashboard**, then **Drag and Drop** it in first Section.

The screenshot shows the Lightning App Builder interface. On the left, a dashboard component titled 'Task Execution Details' is displayed, showing a table of venue and drop-off points, a bar chart of volunteer tasks, and a photo of food distribution. On the right, a flow component placeholder titled 'Venue Form' is shown, indicating that flows do not run in the canvas.

7. Click on **Save and Activation**, then click on **App Default**, then **Add Assignments**.
8. **Add FoodConnect App** and then **Save**.
9. **FoodConnect Home Page** would Look Like this.

The screenshot shows the FoodConnect Home Page. At the top, there is a navigation bar with the FoodConnect logo and a search bar. Below the navigation bar, there is a dashboard component titled 'Task Execution Details' and a 'Venue Form' component. The dashboard component shows a table of venue and drop-off points, a bar chart of volunteer tasks, and a photo of food distribution. The 'Venue Form' component has fields for Venue Name, Email, Phone, and Venue Location, and a 'Next' button.



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To Supply Leftover Food to Poor

Utilizing Salesforce, our project streamlines surplus food collection and distribution to the needy, ensuring efficiency and transparency



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- *notifications Approval process*
 -
-

ADVANTAGES & DISADVANTAGES

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CONCLUSION

The Lease Management System successfully streamlines the operations of leasing through a structured, automated Salesforce application. It improves efficiency, communication, and data accuracy for both admins and tenants.

APPENDIX

- **Source Code:** Provided in Apex Classes and Triggers

Test.apxt:

```
trigger test on Tenant__c (before insert) { if (trigger.isInsert
&& trigger.isBefore){ testHandler.preventInsert(trigger.new);
    } }
```

testHandler.apxc:

```
public class
testHandler { public
static void
preventInsert(List<
Tenant__c> newList)
{
    Set<Id>
existingPropertyIds
= new Set<Id>()

    for (Tenant__c existingTenant : [SELECT Id, Property__c FROM Tenant__c WHERE Property__
c != null]) {

        existingPropertyIds.add(existingTenant.Property__c;
```



```

    } for (Tenant__c newTenant :
newlist) {

        if (newTenant.Property__c != null && existingPropertyIds.contains(newTenant.Property__
c)) { newTenant.addError('A

        tenant can have only one property');

        }

    }

}
}
}

```

MonthlyEmailScheduler.apxc:

```

global class MonthlyEmailScheduler implements Schedulable { global void

    execute(SchedulableContext sc) { Integer currentDay =

    Date.today().day(); if (currentDay == 1) { sendMonthlyEmails();

    }

    } public static void

sendMonthlyEmails() { List<Tenant__c>

tenants = [SELECT Id, Email__c FROM

Tenant__c]; for (Tenant__c tenant :

tenants) {

    String recipientEmail = tenant.Email__c;

    String emailContent = 'I trust this email finds you well. I am writing to remind you

that the monthly rent is due Your timely payment ensures the smooth functioning of our rental

arrangement and helps maintain a positive living environment for all.';

    String emailSubject = 'Reminder: Monthly Rent Payment Due';

```



```
Messaging.SingleEmailMessage email = new Messaging.SingleEmailMessage();  
  
email.setToAddresses(new String[]{recipientEmail}); email.setSubject(emailSubject);  
  
email.setPlainTextBody(emailContent);  
  
Messaging.sendEmail(new Messaging.SingleEmailMessage[]{email});  
  
}  
  
}  
  
}
```

