

Phase 3: Project Design Phase

The structure of the system is designed. Data models, user interfaces, and workflows are planned. For example, how restaurants can log leftover food, how NGOs can request food, and how notifications will be managed. Wireframes or mockups are created to visualize the system before development begins.

Milestone 4: THE LIGHTNING APP:-

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.

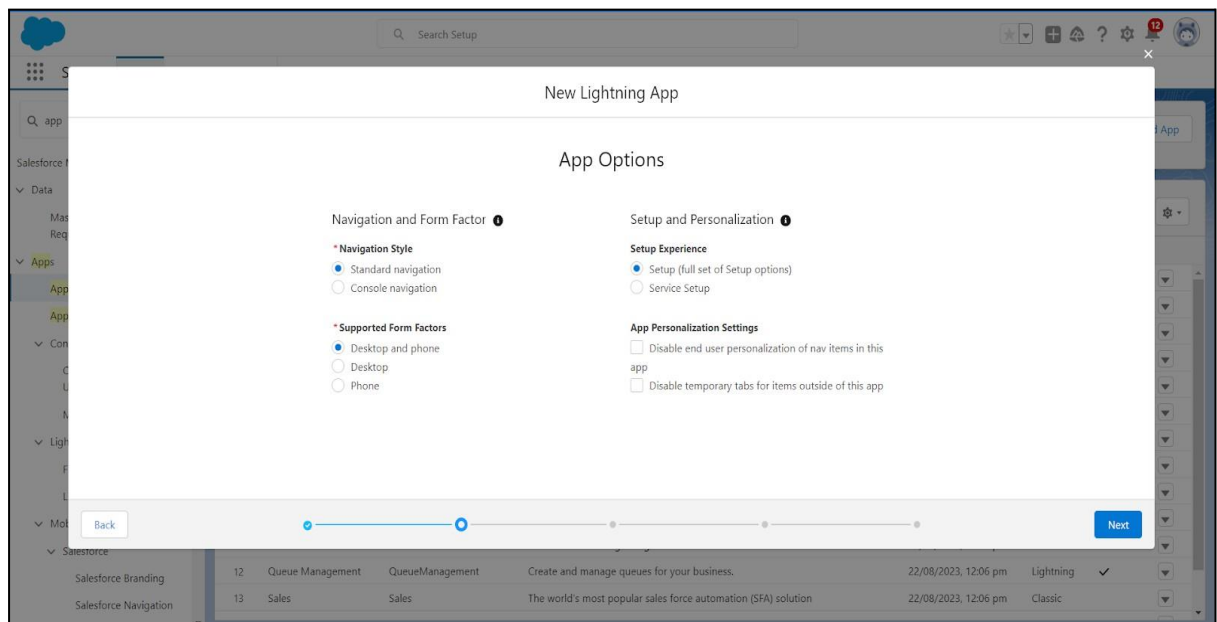
The screenshot shows the Salesforce Lightning Experience App Manager interface. The browser address bar displays the URL: `orgfarm-2cbe578458-dev-ed.develop.my.salesforce-setup.com/lightning/setup/NavigationMenus/home`. The page title is "Lightning Experience App Manager". The left sidebar shows the navigation menu with "Setup" selected. The main content area displays a list of 28 items, sorted by App Name. The list includes various Salesforce applications and their details.

App Name	Developer Name	Description	Last Modified Date	App Type	Visi...
1 All Tabs	AllTabSet		10/25/2025, 11:52 AM	Classic	
2 Analytics Studio	Insights	Build CRM Analytics dashboards and apps	10/25/2025, 11:52 AM	Classic	
3 App Launcher	AppLauncher	App Launcher tabs	10/25/2025, 11:52 AM	Classic	
4 Approvals	Approvals	Manage approvals and approval flows	10/25/2025, 11:52 AM	Lightning	
5 Automation	FlowsApp	Automate business processes and repetitive tasks.	10/25/2025, 11:58 AM	Lightning	
6 Bolt Solutions	LightningBolt	Discover and manage business solutions designed for your industry.	10/25/2025, 11:52 AM	Lightning	
7 Community	Community	Salesforce CRM Communities	10/25/2025, 11:52 AM	Classic	
8 Content	Content	Salesforce CRM Content	10/25/2025, 11:52 AM	Classic	
9 Data Cloud	Audience360	Build a thorough and complete understanding of your customers.	10/25/2025, 11:52 AM	Lightning	
10 Data Manager	DataManager	Use Data Manager to view limits, monitor usage, and manage recipes.	10/25/2025, 11:52 AM	Lightning	
11 Developer Edition	Developer_Edition	Welcome to your Developer Edition Org.	10/25/2025, 12:05 PM	Lightning (Managed)	
12 Digital Experiences	SalesforceCMS	Manage content and media for all of your sites.	10/25/2025, 11:52 AM	Lightning	
13 FoodConnect	FoodConnect		10/30/2025, 3:52 AM	Lightning	
14 Lightning Experience	LightningExperience	View Adoption and Usage Metrics for Lightning Experience	10/25/2025, 11:52 AM	Lightning	

2. Fill the app name in app details and branding as follow

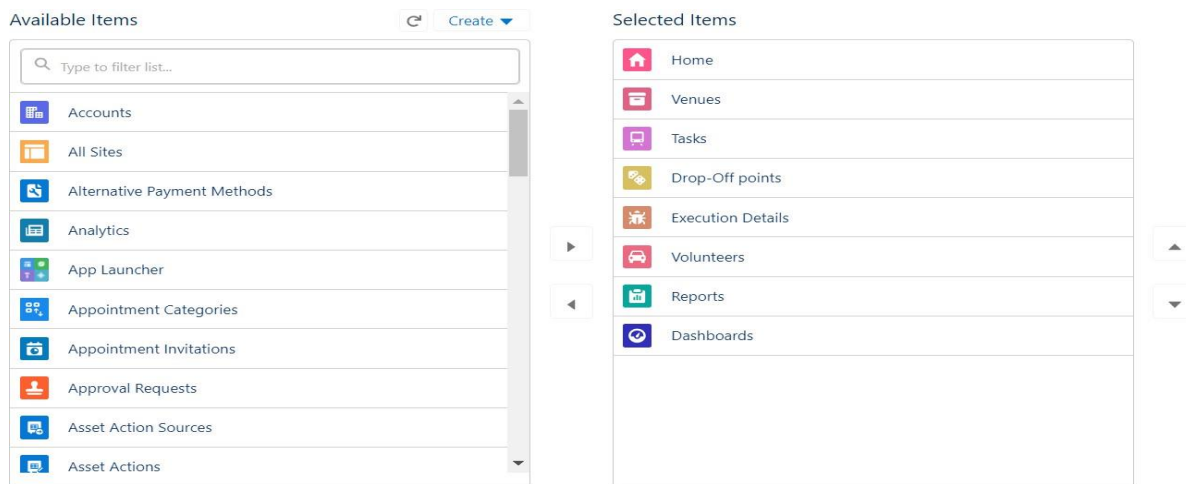
- App Name : FoodConnect
- Developer Name : This will auto populated
- Image : optional (if you want to give any image you can otherwise not mandatory)
- Primary color hex value : keep this default.

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



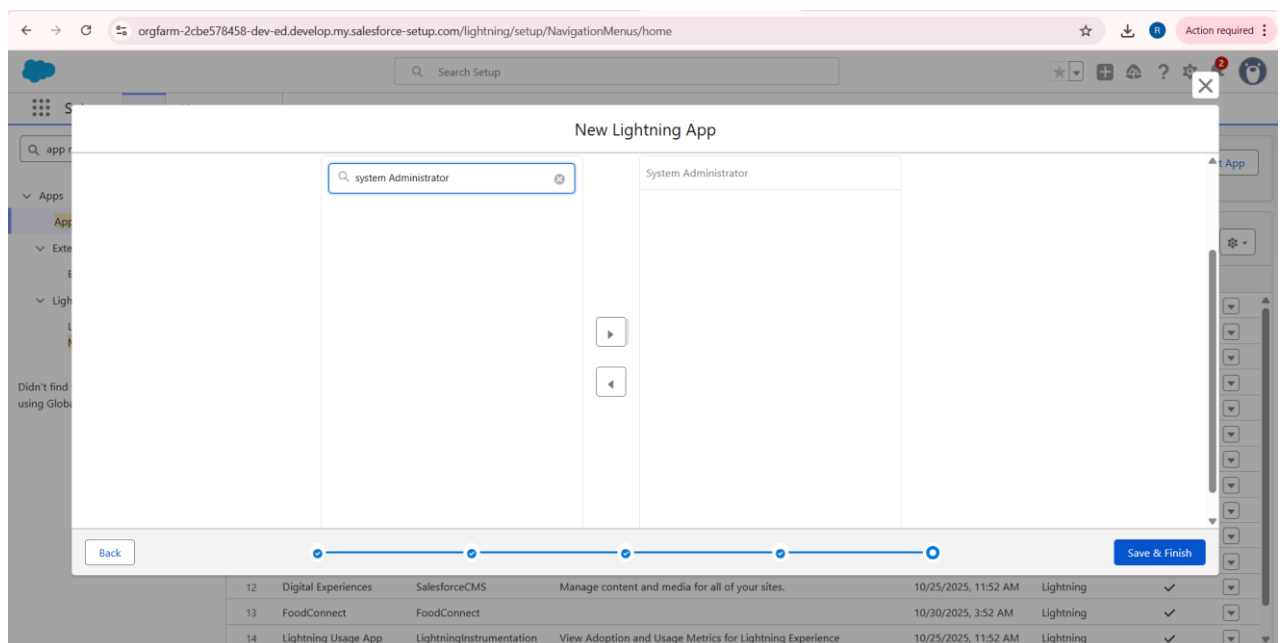
4. (Utility Items) keep it as default >> Next.

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.

G. 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 Object:-

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

The screenshot shows the Salesforce 'New Custom Field' setup page for the 'Volunteer' object. The page is titled 'New Custom Field' and is part of the 'Setup > OBJECT MANAGER' navigation. The left sidebar shows the 'Fields & Relationships' section selected. The main content area is titled 'Step 1. Choose the field type' and includes a 'Next' button. Below this, there is a section for 'Data Type' with several options: 'None Selected', 'Auto Number', 'Formula', 'Roll-Up Summary', 'Lookup Relationship' (selected), and 'Master-Detail Relationship'. Each option has a brief description of its functionality.

Setup > OBJECT MANAGER
Volunteer

Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters
Search Layouts

New Custom Field

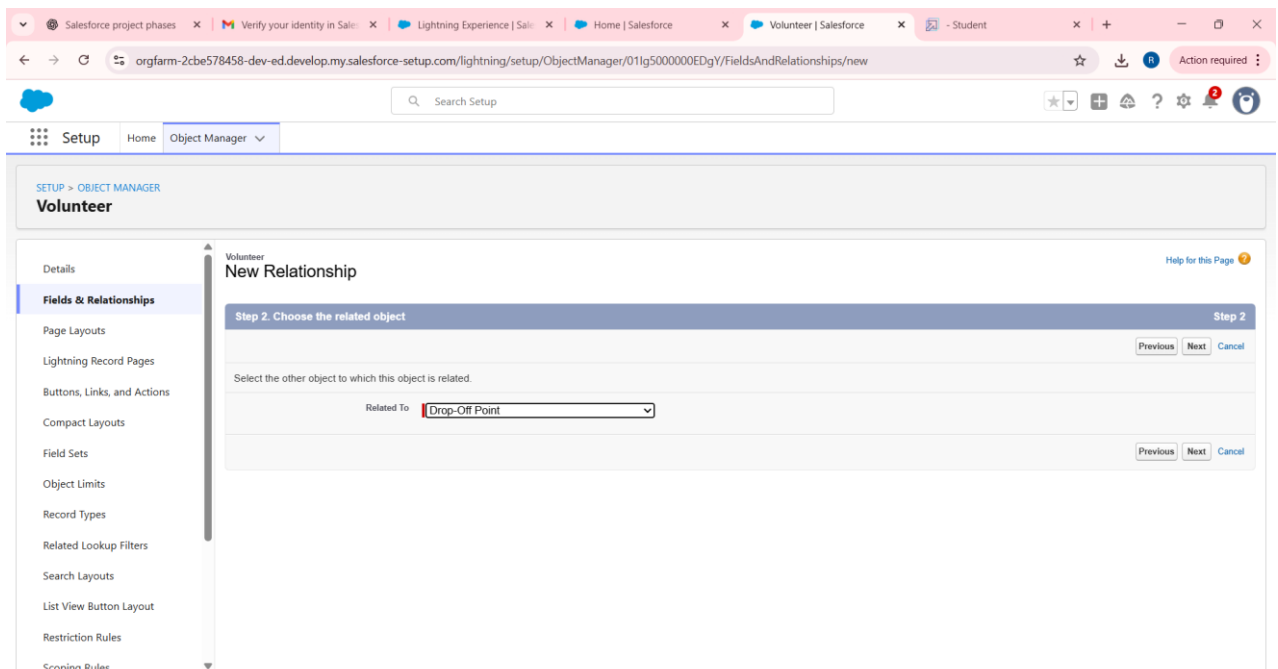
Step 1. Choose the field type Step 1

Specify the type of information that the custom field will contain.

Data Type

Select one of the data types below.

- ☐ None Selected
- ☐ Auto Number
A system-generated sequence number that uses a display format you define. The number is automatically incremented for each new record.
- ☐ Formula
A read-only field that derives its value from a formula expression you define. The formula field is updated when any of the source fields change.
- ☐ Roll-Up Summary
A read-only field that displays the sum, minimum, or maximum value of a field in a related list or the record count of all records listed in a related list.
- ☒ Lookup Relationship
Creates a relationship that links this object to another object. The relationship field allows users to click on a lookup icon to select a value from a popup list. The other object is the source of the values in the list.
- ☐ Master-Detail Relationship [i](#)
Creates a special type of parent-child relationship between this object (the child, or "detail") and another object (the parent, or "master") where:
 - The relationship field is required on all detail records.



4. Select the related object “Drop-Off point” and click next.
5. Field Name : Drop_Off_point
- G. Field label : Auto generated
7. Next >> Next >> Save.

Creation of Master-Detail Relationship Field on Execution Detail 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 Detail 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. Field Name : Task
19. Field label : Auto generated
20. Next >> Next >> Save.

Creation of Look-Up Relationship Field on Drop-off Point Object:

21. Go to setup >> click on Object Manager >> type object name(Drop-Off Point) in the search bar >> click on the object.
22. Now click on “Fields & Relationships” >> New
23. Select Lookup relationship
24. Select the related object “Venue” and click next.
25. Field Name : Venue
26. Field label : Venue__c
27. Next >> Next >> Save.

Creation of Lookup Relationship Field on Task Object:

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

33.Next >> Next >> Save.

Creation of Lookup Relationship Field on Task Object:

- 3G. 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.

Activity 2: Creation of Fields for 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:

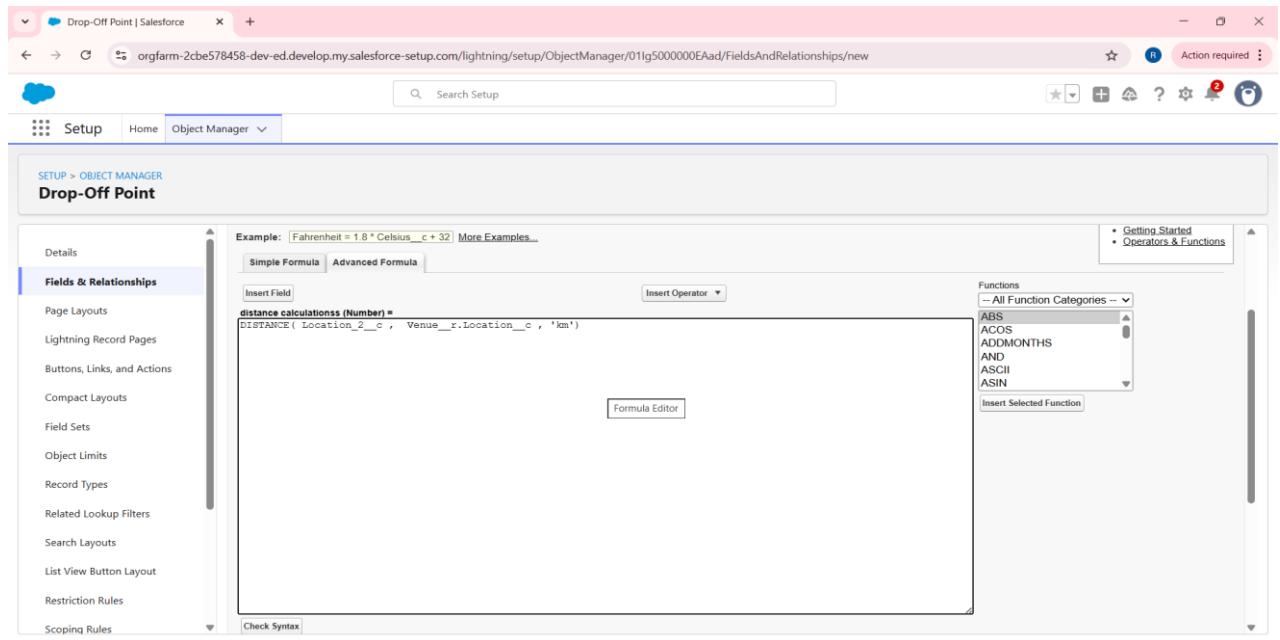
5. Go to setup >> click on Object Manager >> type object name(Venue) in search bar >> click on the object.
- G. Now click on “Fields & Relationships” >> New
7. Select Data type as a “Phone” and Click on Next
8. Fill the Above as following:
 - Field Label : Contact Phone
 - Field Name : Contact Phone
 - Click on required check box
 - Click on Next >> Next >> Save and new.
9. Select Data type as a “Geolocation” and Click on Next
10. 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.
11. Select Data type as a “Long Text Area” and Click on Next
12. 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 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
 - 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 search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Formula” and Click on Next
4. Fill the Above as following:
 - Field Label : distance calculation
 - Field Name : distance_calculation
 - Formula Return Type : Number
 - Formula Options :
 - Click on Next >> Next >> Save and new.



5. Select Data type as a “Picklist” and Click on Next

G. 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.

7. Select Data type as a “Number” and Click on Next

8. 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 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
 - 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 >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Date” and Click on Next
4. Fill the Above as following:
 - Field Label : Date
 - Field Name : Date
 - Click on required check box
 - Click on Next >> Next >> Save and new.
5. Select Data type as a “Picklist (Multi-Select)” and Click on Next
- G. 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.

7. Select Data type as a “Number” and Click on Next

8. 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.

9. Select Data type as a “Text” and Click on Next

10. Fill the Above as following:

- Field Label : Name of the Person
- Field Name : Name_of_the_Person
- Click on Next >> Next >> Save and new.

11. Select Data type as a “Phone” and Click on Next

12. Fill the Above as following:

- Field Label : Phone
- Field Name : Phone
- Click on Next >> Next>> Save and new.

13. Select Data type as a “Pick List” and Click on Next

14. 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.

15. Select Data type as a “Long Text Area” and Click on Next

1G. 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:-

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.

To create another fields in an 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 “Picklist” and Click on Next

4. 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.

5. Select Data type as a “Date” and Click on Next

G. 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.

7. Select Data type as a “Number” and Click on Next

8. Fill the Above as following:

- Field Label : Age
- Field Name : Age
- Click on required check box
- Click on Next >> Next>> Save and new.

9. Select Data type as a “Email” and Click on Next

10. Fill the Above as following:

- Field Label : Email
- Field Name : Email
- Click on required check box
- Click on Next>> Next >> Save and new.

11. Select Data type as a “Number” and Click on Next

12. 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.

13. Select Data type as a “Text Area (Long)” and Click on Next

14. Fill the Above as following:

- Field Label : Address
- Field Name : Address
- Click on Next >> Next >> Save and new.

15. Select Data type as a “Date” and Click on Next

1G. Fill the Above as following:

- Field Label : Date of Birth
- Field Name : Date_of_Birth

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

Activity 5: 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.

Milestone 6: FLOWS :-


Create Flow to create a Record in Venue Object:

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.

New Flow


Core

All + Templates




Screen Flow

Guides users through a business process that's launched from Lightning pages, Experience Cloud sites, quick actions, and ...




Record-Triggered Flow

Launches when a record is created, updated, or deleted. This autolaunched flow runs in the background.




Schedule-Triggered Flow

Launches at a specified time and frequency for each record in a batch. This autolaunched flow runs in the background.




Platform Event—Triggered Flow

Launches when a platform event message is received. This autolaunched flow runs in the background.



Autolaunched Flow (No Trigger)

Launches when invoked by Apex, processes, REST API, and more. This autolaunched flow runs in the background.

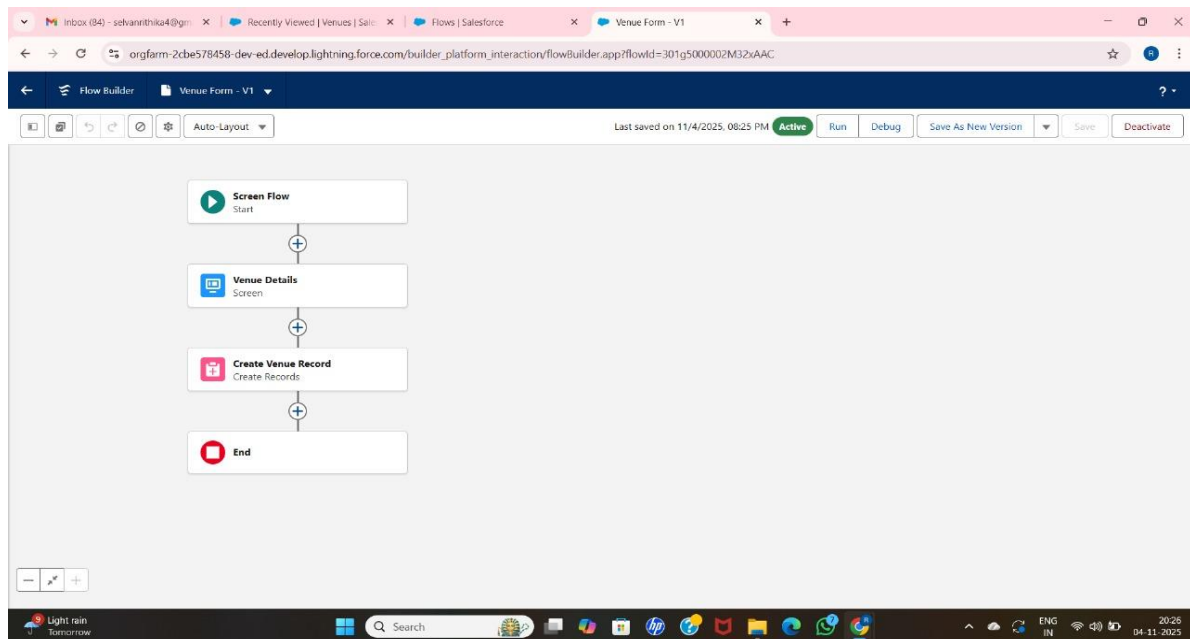


Record-Triggered Orchestration

Launches when a record is created or updated. An orchestration lets you create a multi-step, multi-user process.

Create

3. Click on the '+' icon in between start and end, and click on the screen element.
4. Under the Screen Properties:
 - Label : Venue Details
 - API Name : Venue_Details
5. Now let's add components in this flow. Click on Text Component and name it as:
 - Label : Venue Name
 - API Name : Venue_Name
- G. 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



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

7. 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}

8. This would look like:

Create a Record of This Object

* Object

Venue

Set Field Values for the Venue

Field	Value	
Contact_Email__c	←	<div> <div> <div>Contact_Email > Value</div> <div>×</div> </div> </div>
Field	Value	
Contact_Phone__c	←	<div> <div> <div>Contact_Phone > Value</div> <div>×</div> </div> </div>
Field	Value	
Name	←	<div> <div> <div>Venue_Name</div> <div>×</div> </div> </div>
Field	Value	
Venue_Location__c	←	<div> <div> <div>location</div> <div>×</div> </div> </div>

9. Click on Save as:

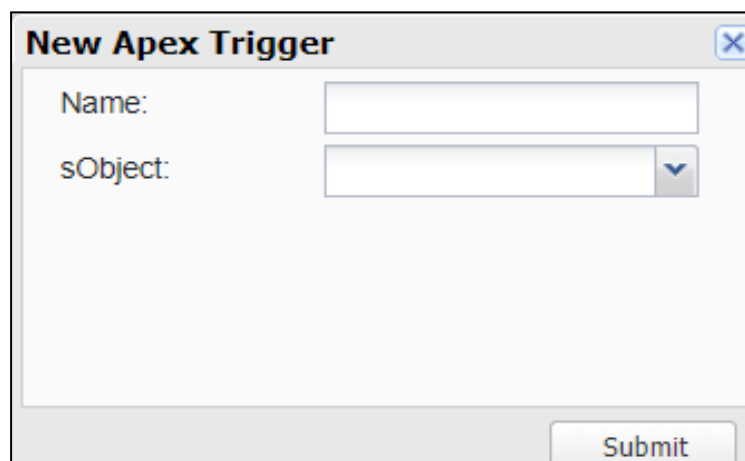
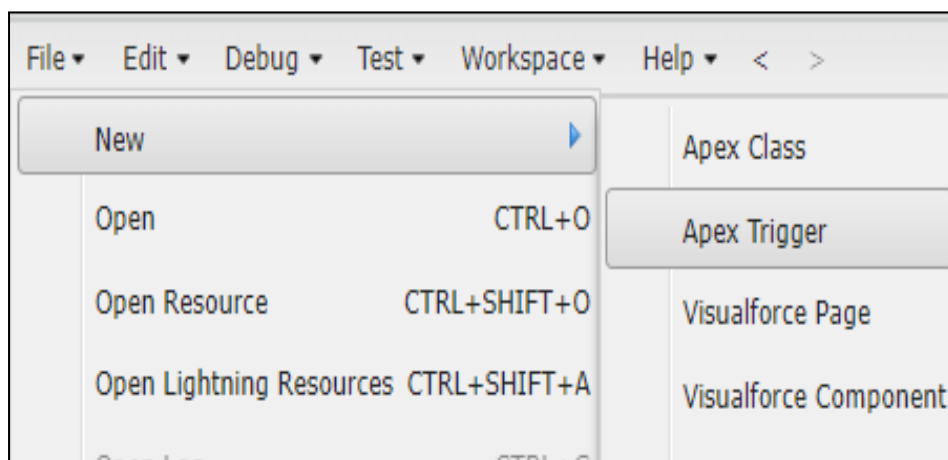
Flow Label : Venue Form

Flow API Name : Venue_Form

Milestone 7: TRIGGER :-

Activity 1: 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.

A screenshot of the 'New Apex Trigger' dialog box. It has a title bar with a close button. Inside, there are two labels: 'Name:' followed by a text input field, and 'sObject:' followed by a dropdown menu. At the bottom right of the dialog is a 'Submit' button.

5. Enter Name : DropOffTrigger
sObject: Drop-Off Point_c
- G. 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__c;  
    }  
}
```