

## Phase 3: Project Design Phase

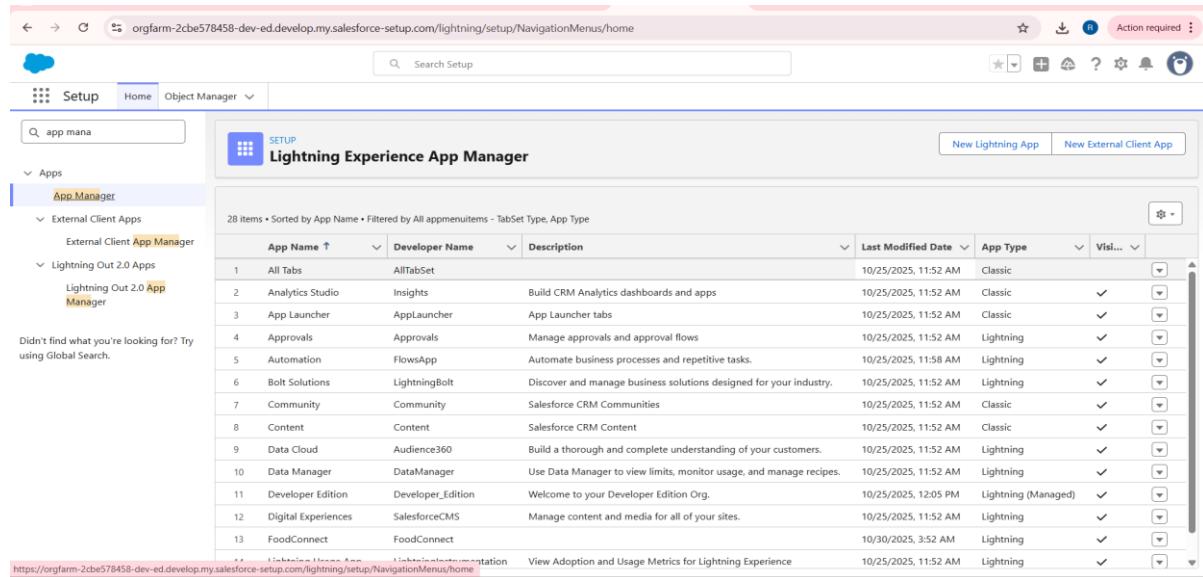
The structure of the system is designed. Data models, user interfaces, and workflows are planned. For example, how restaurants can log leftover food, how NGOs can request food, and how notifications will be managed. Wireframes or mockups are created to visualize the system before development begins.

## 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.



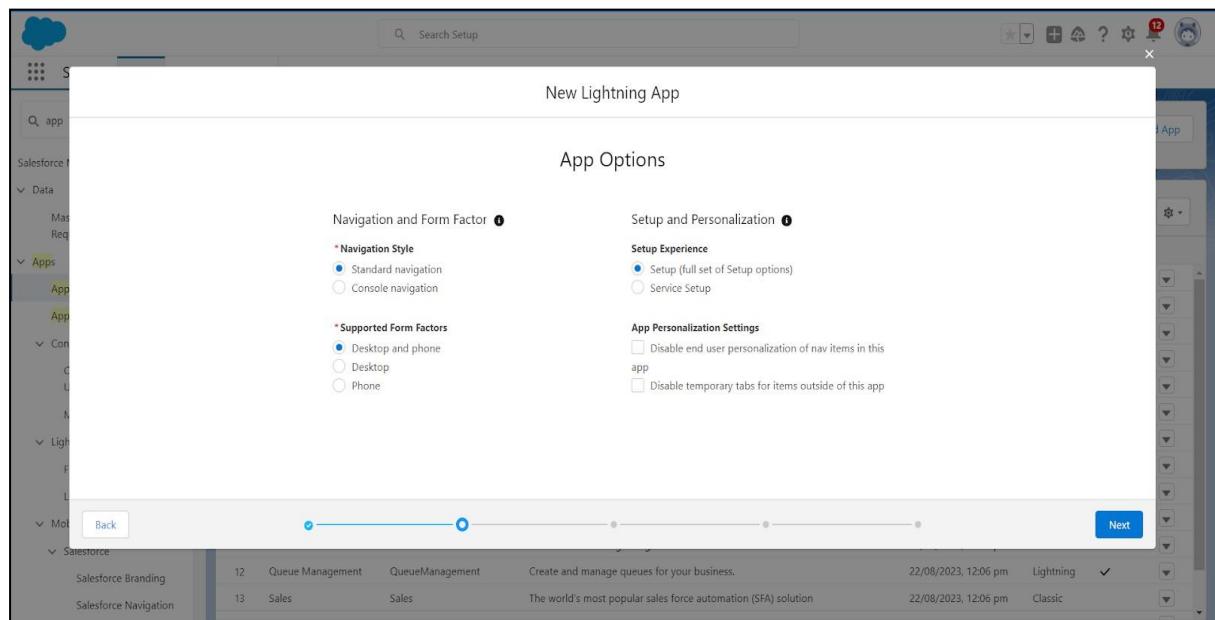
The screenshot shows the Salesforce Setup interface with the "App Manager" selected under the "Apps" category. The main title is "Lightning Experience App Manager". A table lists 28 items, sorted by App Name, filtered by TabSet Type, App Type, and Last Modified Date. The table includes columns for App Name, Developer Name, Description, Last Modified Date, App Type, and Visibility. Apps listed include All Tabs, Analytics Studio, App Launcher, Approvals, Automation, Bolt Solutions, Community, Content, Data Cloud, Data Manager, Developer Edition, Digital Experiences, and FoodConnect. The "FoodConnect" app is highlighted with a red border.

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

The screenshot shows the 'Navigation Menus' setup page. On the left, under 'Available Items', there is a search bar with placeholder text 'Type to filter list...' and a list of items including Accounts, All Sites, Alternative Payment Methods, Analytics, App Launcher, Appointment Categories, Appointment Invitations, Approval Requests, Asset Action Sources, and Asset Actions. On the right, under 'Selected Items', there is a list of items: Home, Venues, Tasks, Drop-Off points, Execution Details, Volunteers, Reports, and Dashboards. Between the two lists are arrows for moving items between them.

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:

The screenshot shows the 'New Lightning App' configuration screen. In the center, there is a search bar with the text 'system Administrator'. To the right of the search bar, there is a list titled 'System Administrator' containing one item. Below the search bar are two arrows: a right-pointing arrow above a left-pointing arrow. At the bottom of the screen, there is a progress bar with several steps completed. On the far right, there is a 'Save & Finish' button. The left sidebar shows a navigation tree with 'Apps' selected, and the bottom left corner displays a message: 'Didn't find anything using Global search'.

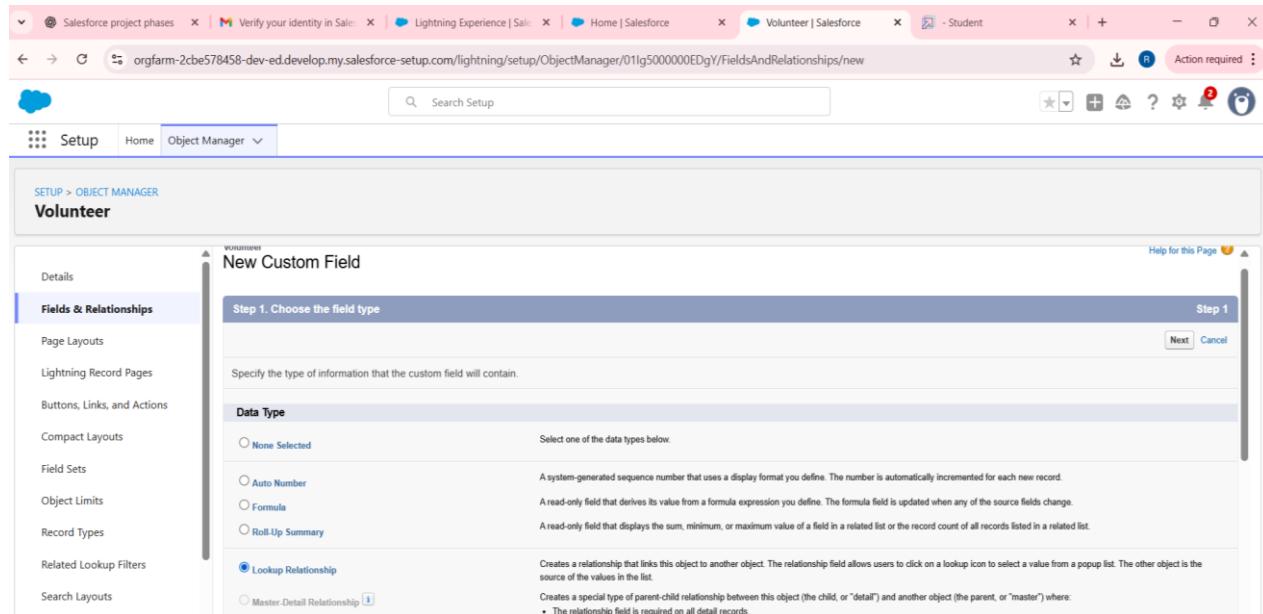
Search profiles (System administrator) in the search bar >> click on the arrow button  
 >> save & finish.

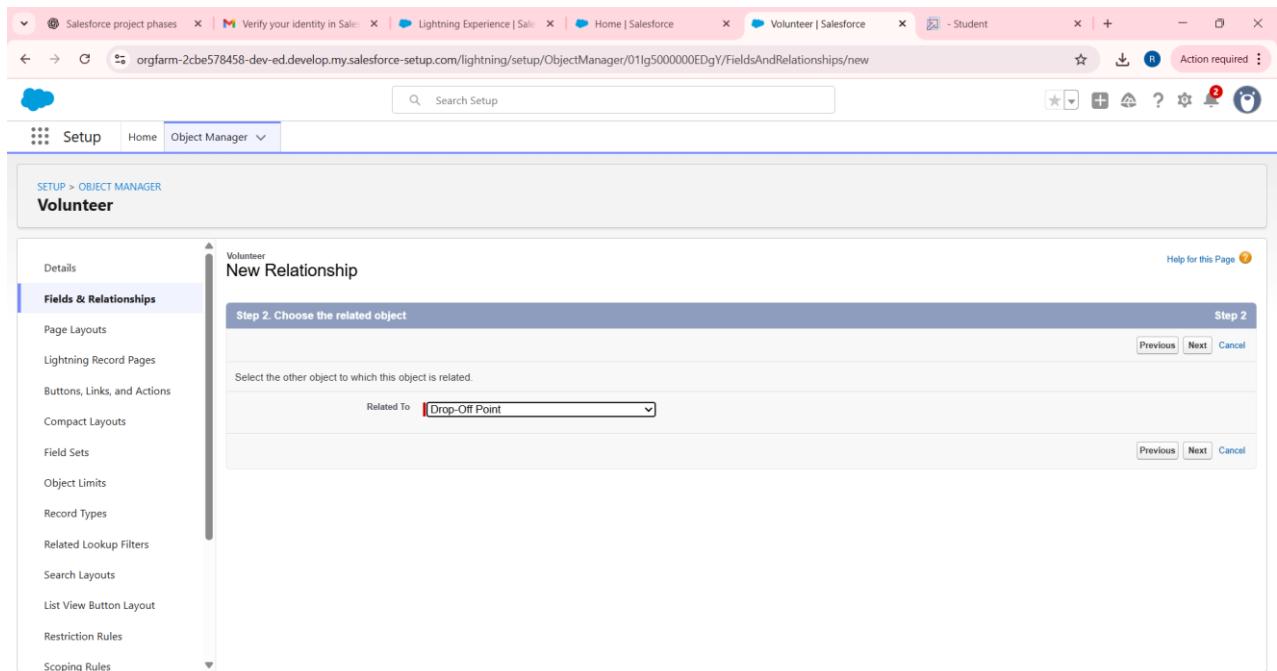
## Milestone 5: FIELDS :-

### 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





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.

#### 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:

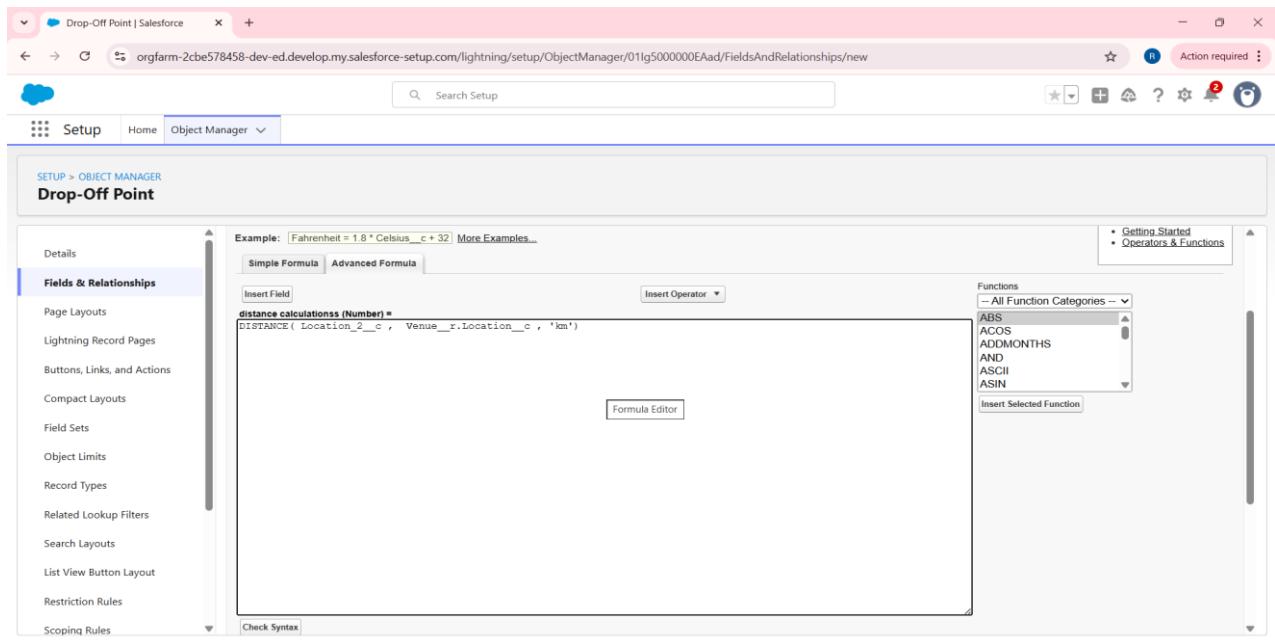
5. Go to setup >> click on Object Manager >> type object name(Venue) in search bar >> click on the object.
- G. Now click on ‘Fields & Relationships’ >> New
7. Select Data type as a ‘Phone’ and Click on Next
8. Fill the Above as following:
  - Field Label : Contact Phone
  - Field Name : Contact Phone
  - 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.

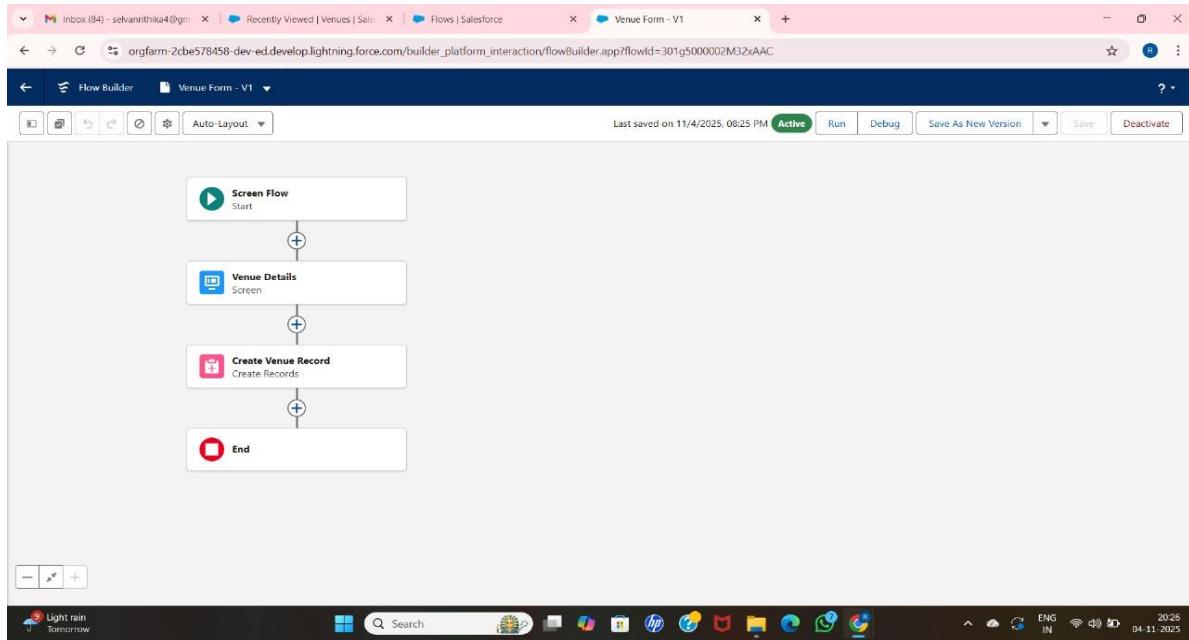
New Flow

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	Aa Contact_Email > Value X
Contact_Phone_c	Aa Contact_Phone > Value X
Name	Aa Venue_Name X
Venue_Location_c	Aa location X

9. Click on Save as:

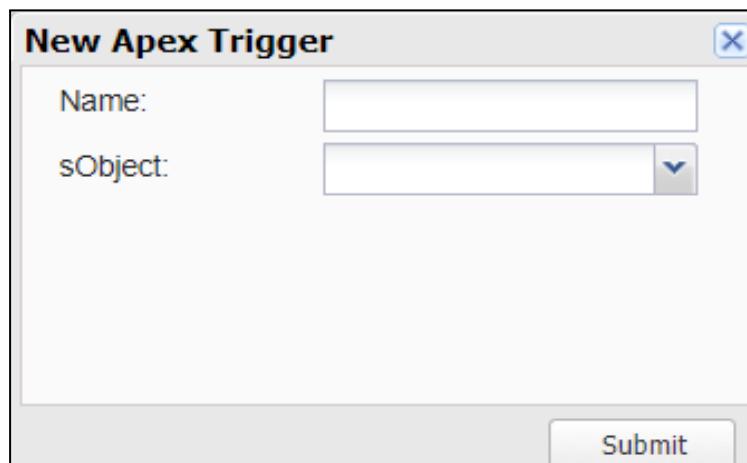
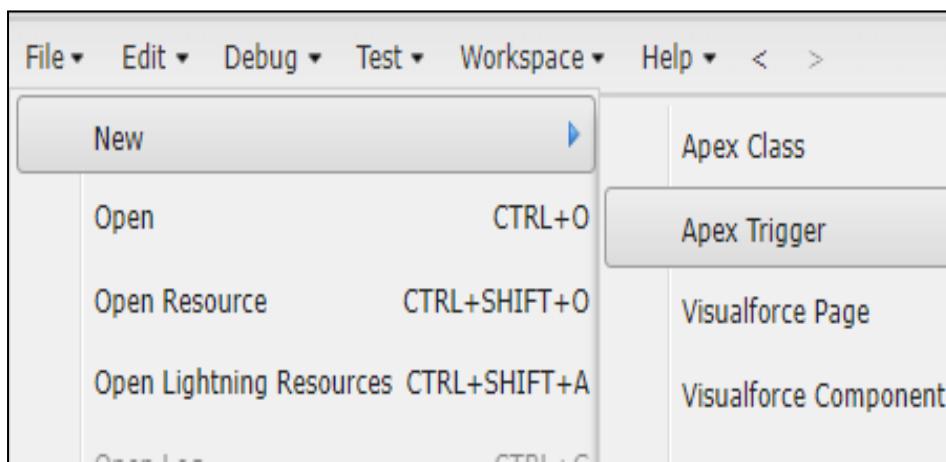
Flow Label : Venue Form

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.



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;  
    }  
}
```