Project Execution Phase
Project Files

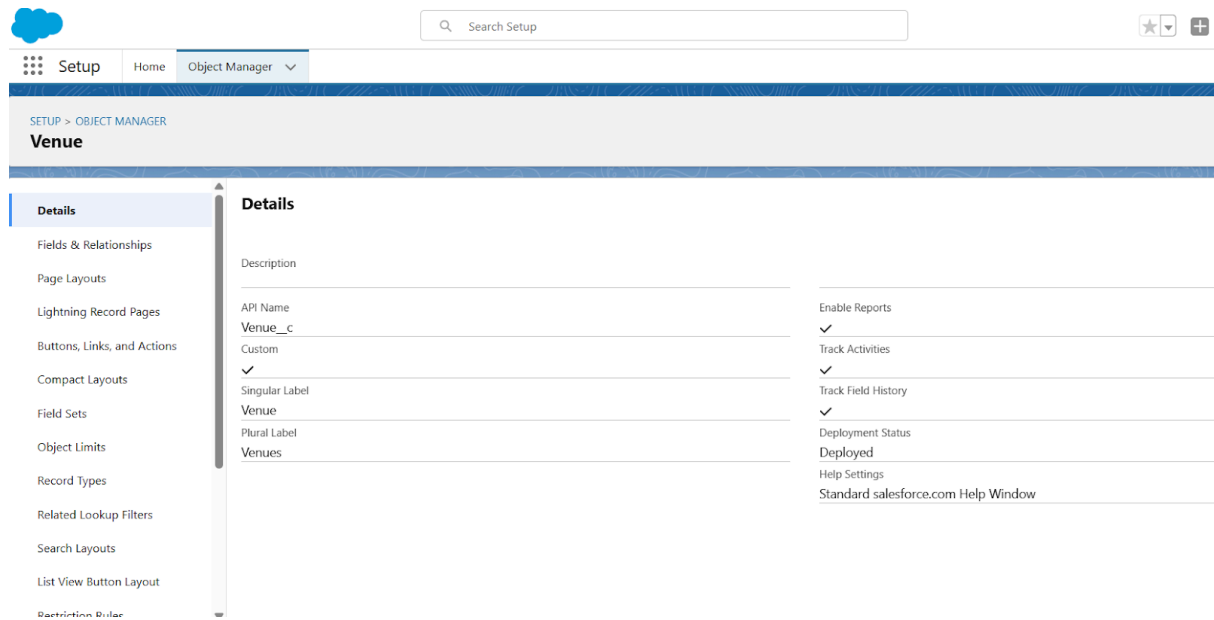| Date	27 June 2025
Team ID	LTVIP2025TMID38851
Project Name	TO SUPPLY LEFTOVER FOOD TO POOR

1. Developer Environment Setup:

- Developer account creation on Salesforce
- Verification and login steps
- Navigating to Object Manager and Setup
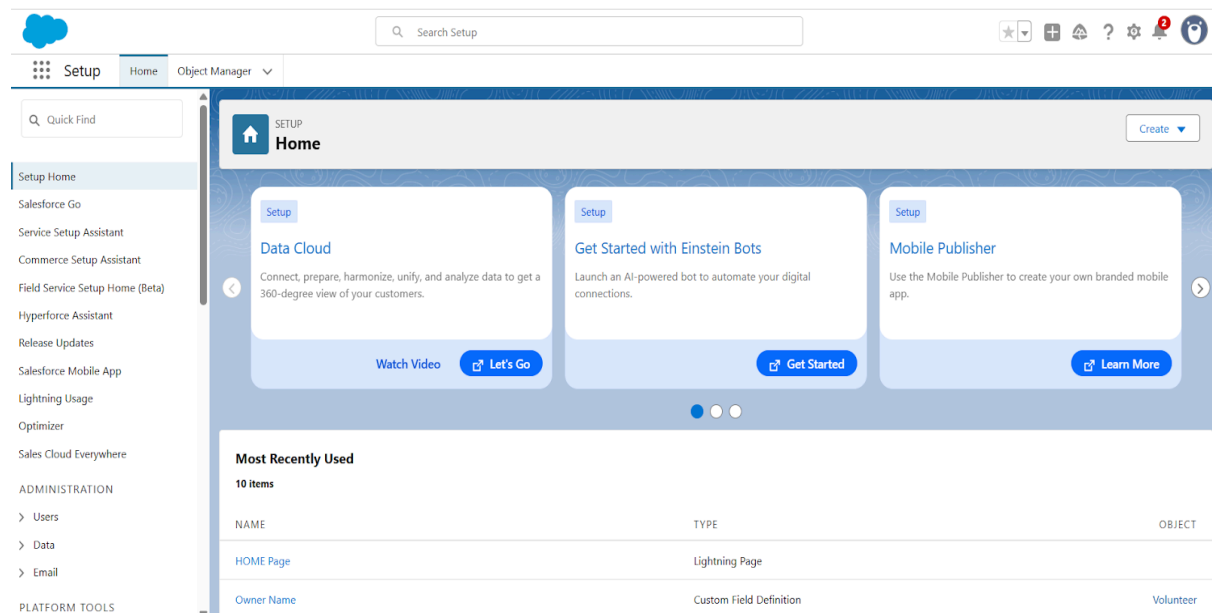
2. Custom Object Creation:

Custom Object Creation in Salesforce is a key part of building tailored applications like the FoodConnect project. In this project, several custom objects such as Venue, Drop-Off Point, Task, Volunteer, and Execution Detail were created to represent real-world entities involved in food redistribution. Each object was designed with specific fields (like geolocation, contact info, food category, etc.) to capture and manage relevant data. These objects form the backbone of the application, enabling structured data storage, relationships, and automation for effective food supply coordination.
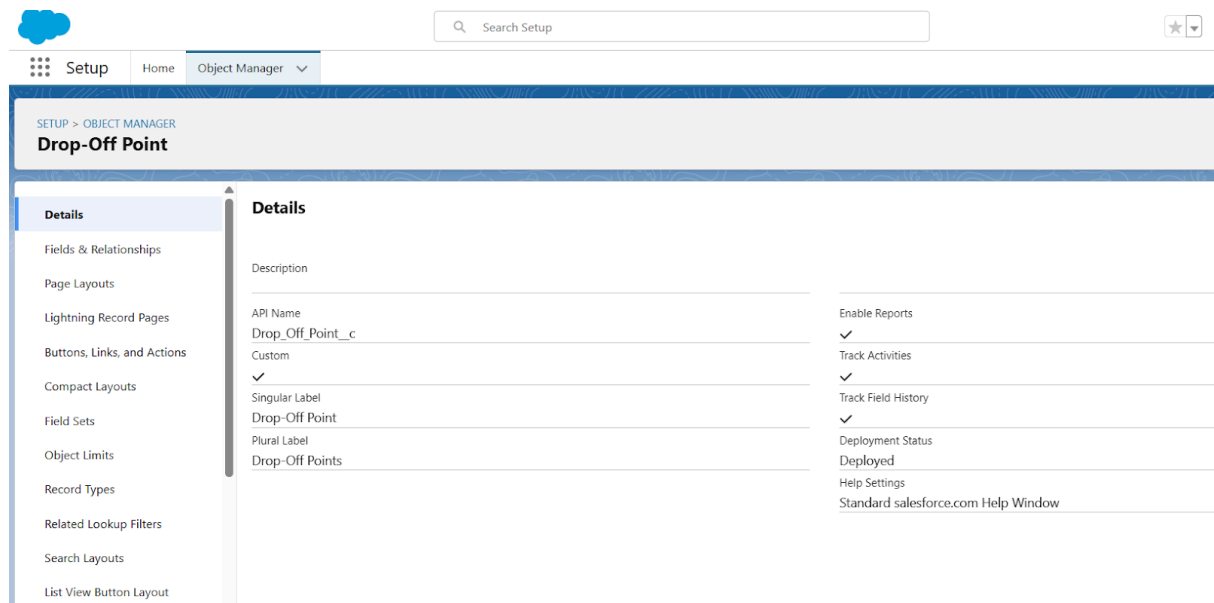
Venue Object – captures food donor info:

Drop-Off Point Object – destination for food delivery:

Task Object – represents food donation instance:

Volunteer Object – records NGO volunteer data:

Execution Detail Object – links volunteers to tasks:
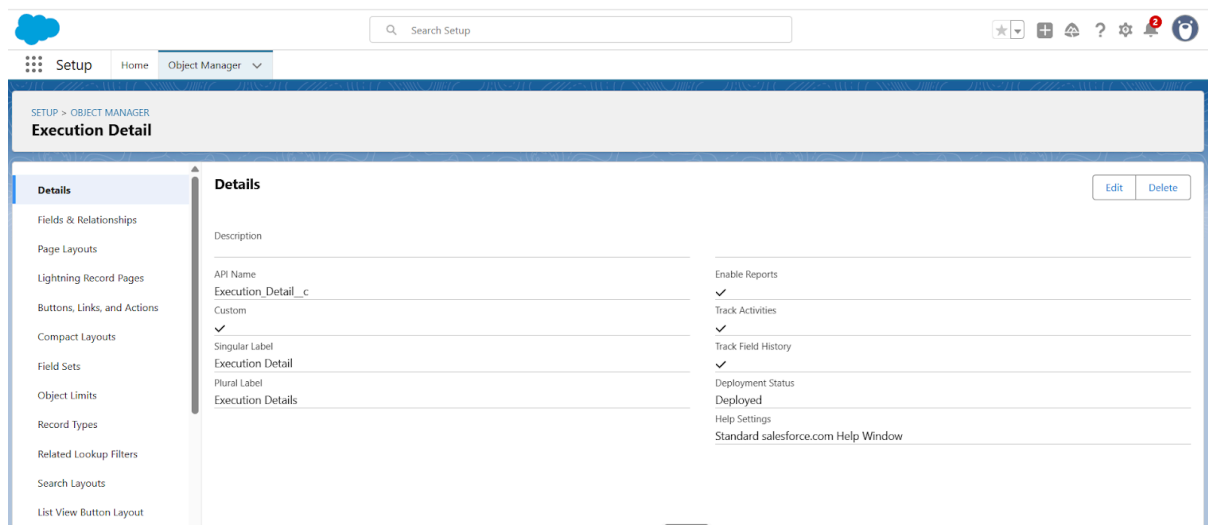
3. Custom Field Configuration:

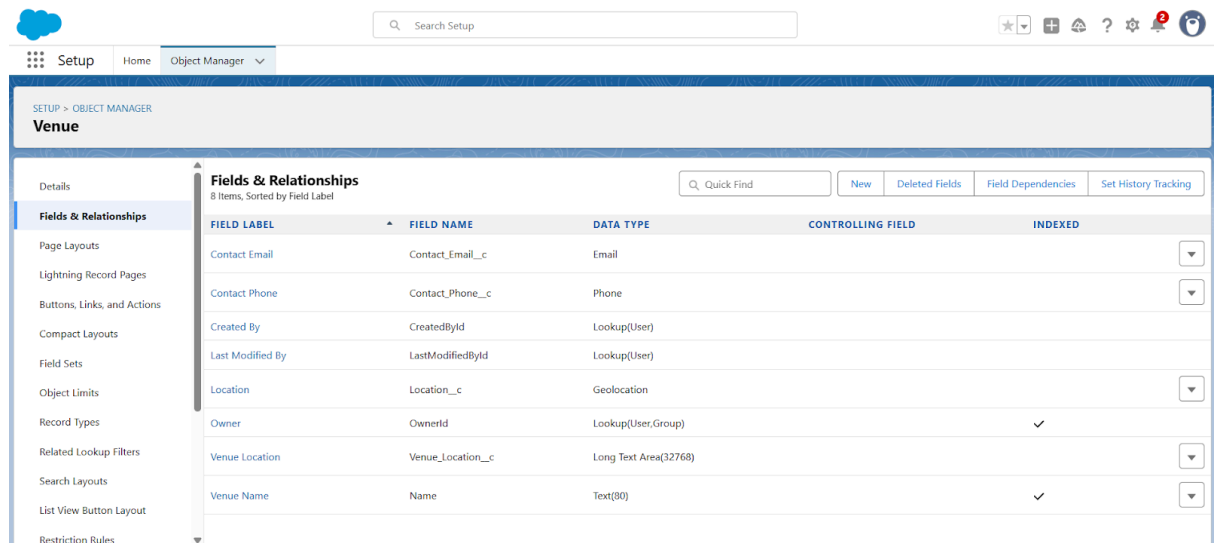Fields created for all objects (Text, Email, Phone, Geolocation, Picklist, Formula, etc.)

Examples:

- Venue: Contact Email, Location, Venue Description
- Task: Food Category, Distance, Rating, Date
- Volunteer: Age, Email, Gender, Availability

4. Object Relationships:

Master-Detail & Lookup relationships:

Volunteer → Drop-Off Point (M-D)

Execution Detail → Volunteer (M-D)

Execution Detail → Task (M-D)

Drop-Off Point → Venue (Lookup)

Task → Drop-Off Point and Venue (Lookup)

5. UI Tabs and App Configuration:

- Tabs created for each object (Venue, Task, Volunteer, etc.)
- Lightning App – "FoodConnect":
  - Includes all custom objects
  - Navigation set up for easy access

6. Flow Automation:

- **Venue Registration Flow (ScreenFlow)**

  - Collects venue name, contact details, geolocation
  - Creates venue record automatically
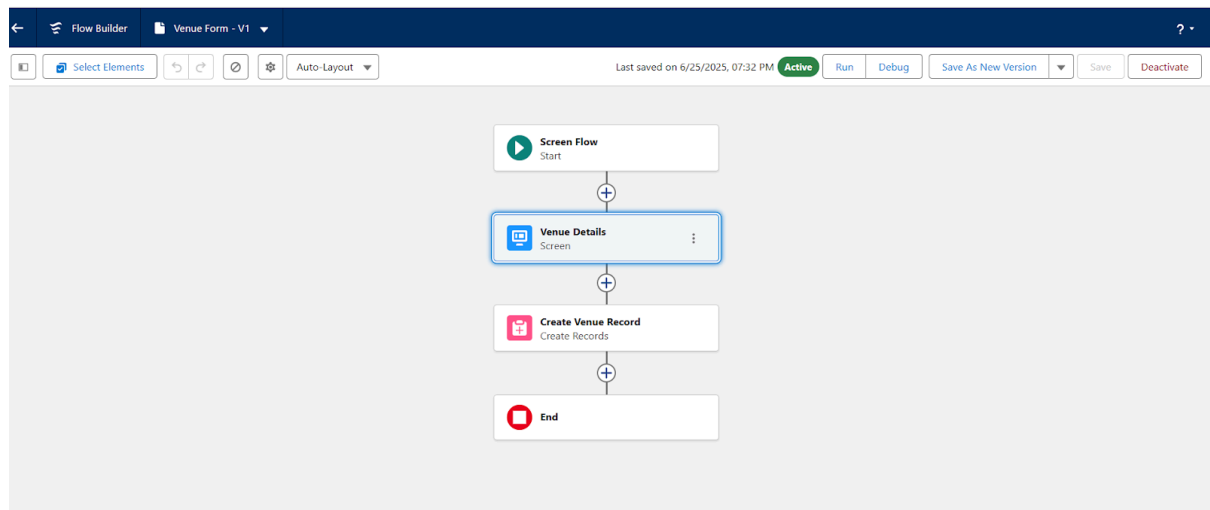
7. Apex Trigger:

- **DropOffTrigger (before insert)**:

  - Copies formula-based calculated distance to a usable field
  - Used for sharing logic

8. Profiles, Users, and Access Control:

- **NGOs Profile**: Custom profile cloned from Standard Platform User

- **Users**: Created for each NGO (e.g., Iksha Foundation)

- **Public Groups**: Iksha, NSS, Street Cause for access segmentation

9. Sharing Rules:

- Based on Distance criteria for Drop-Off Points:
  - **Rule 1: Distance < 15 → Shared with Iksha**
  - **Rule 2: 15 < Distance ≤ 30 → Shared with NSS**
  - **Rule 3: 30 < Distance ≤ 50 → Shared with Street Cause**

10. Reports and Analytics:

- **Custom Report Types:**
  - Venue with Drop-Off and Volunteer
  - Volunteer with Execution and Tasks

  Reports Created:

  - Venue & Drop-Off Report
  - Volunteer Task Report

11.Dashboards:

- Dashboard: **Organization Details**
    - Lightning Table from venue-drop-off report
- Dashboard: **Task Execution Details**
    - Line chart from volunteer-task report
- Optional: Upload image and place it in the dashboard
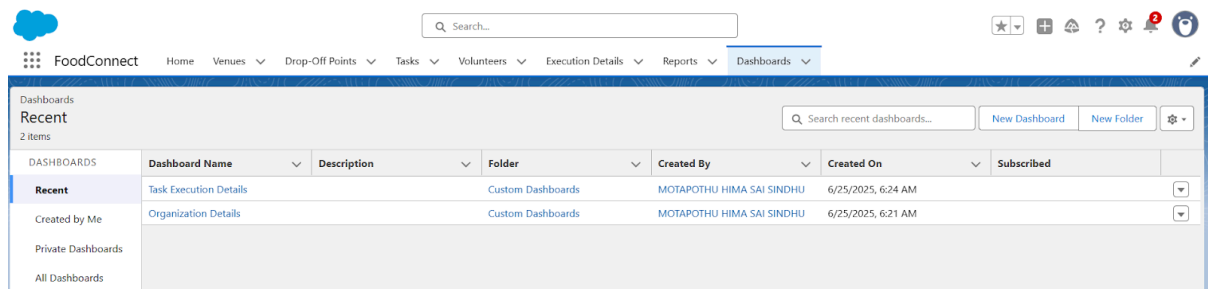
12. Lightning Home Page:

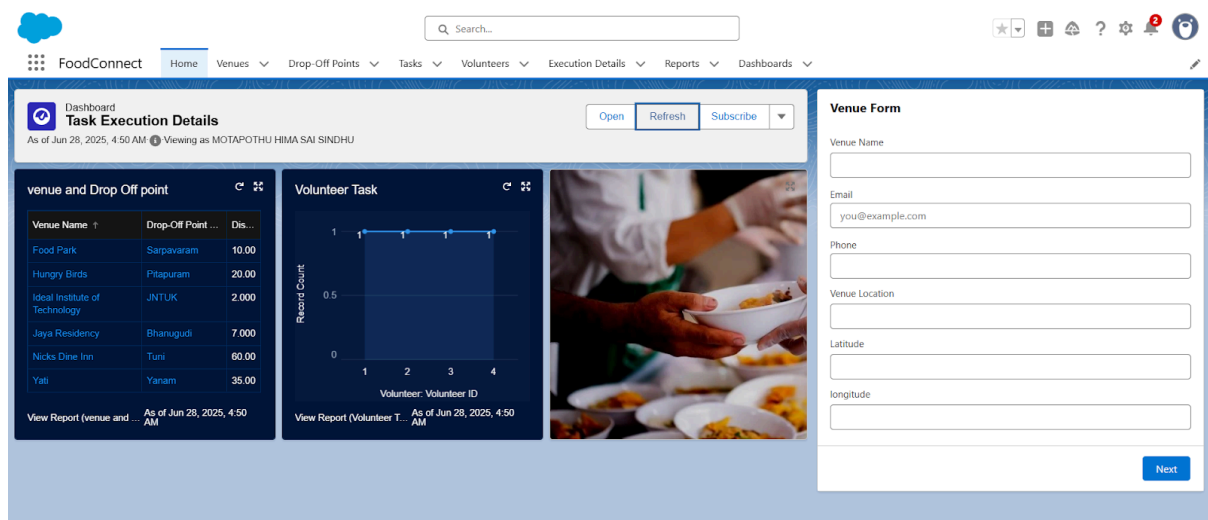- Home page built using **Lightning App Builder**
- Embedded:
    - **Venue Form Flow**
    - **Dashboards**
- Set as **App Default HomePage** for FoodConnect users

13. Testing and Review:

- Unit Testing of Trigger and Flows
- Functional testing of tab navigation and record creation
- **User Acceptance Testing (UAT)** with NGO users
- Final bug fixes and adjustments

14. Conclusion:

- End-to-end Salesforce app deployed
- Real-time coordination of food surplus, volunteers, and beneficiaries achieved
- Project supports transparency, accountability, and food justice