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## TO SUPPLY LEFTOVER FOOD TO POOR

### 1. Project Overview:

- A Salesforce-based CRM system designed to manage the collection and distribution of surplus or leftover food.
- Facilitates donations from restaurants, event organizers, caterers, and households.
- Distributes food to NGOs or directly to individuals in need.
- Aims to combat food waste and hunger by creating an efficient and transparent network.
- Connects donors, volunteers, and recipients in real time using Salesforce capabilities.
- Utilizes features like automation, custom objects, workflow rules, and reporting to streamline operations.
- Enables seamless handling of:
  - Food donations
  - Volunteer assignments
  - Pickup scheduling
- Ensures food is delivered quickly, safely, and with full accountability.
- Maximizes the utilization of edible surplus food and increases the impact of food relief efforts.

### 2. Objectives:

- Create a unified platform that connects food donors with individuals or organizations in need.
- Streamline the process of food donation and distribution from collection to delivery.
- Efficiently manage and track food donations, volunteer assignments, and delivery logistics.
- Maintain a centralized database of donors, NGOs, volunteers, and recipients for better coordination and transparency.
- Utilize Salesforce automation to manage notifications, approvals, and scheduling tasks.
- Minimize manual effort and reduce operational delays through automated workflows.
- Reduce food wastage and contribute to alleviating hunger in underprivileged communities

### User Needs:

- A centralized and easy-to-use platform for managing food donations.
- Donors need a quick way to register surplus food and ensure it is utilized properly.
- Volunteers need structured task assignments, clear routes, and updates.
- NGOs need timely notifications and coordination for receiving donations.
- System administrators require tools to manage user roles, track data, and automate operations.
- All users benefit from real-time updates, transparency, and traceability of the food distribution process.

- Stakeholders want data insights and reports to evaluate impact and performance.

## Problems Being Solved:

- Food waste due to lack of coordination between donors and recipients.
- Manual and disorganized communication, leading to delays or loss of edible food.
- No unified system to track donations, volunteers, or deliveries.
- Inefficient scheduling and routing for volunteers handling pickups and deliveries.
- Limited visibility for NGOs into available food resources and delivery status.
- Data management challenges for reporting, accountability, and transparency.
- Lack of automation, leading to human errors and higher operational costs.
- Underutilization of community resources due to fragmented systems.

## Salesforce Account Creation

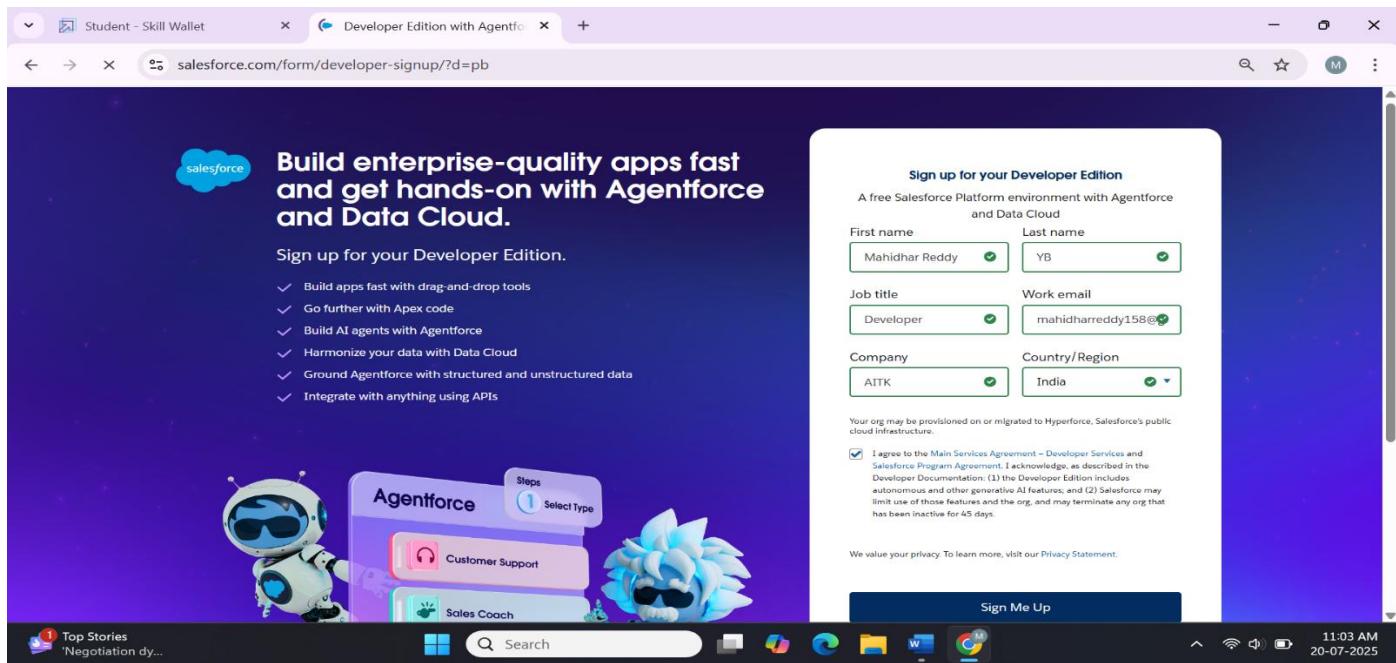
### Step1: Creating a developer org in salesforce.

1. Go to <https://developer.salesforce.com/signup>
2. On the signup form, enter the following details:
  1. First name & Last name
  2. Email
  3. Role: Developer
  4. Company: College or Company Name
  5. County: India
  6. Postal Code: pin code
  7. Username: should be a combination of your name and company

This need not be an actual email id, you can give anything in the format :

username@organization.com

Click on sign me up after filling these.



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**Agentforce**

Steps  
1 Select Type

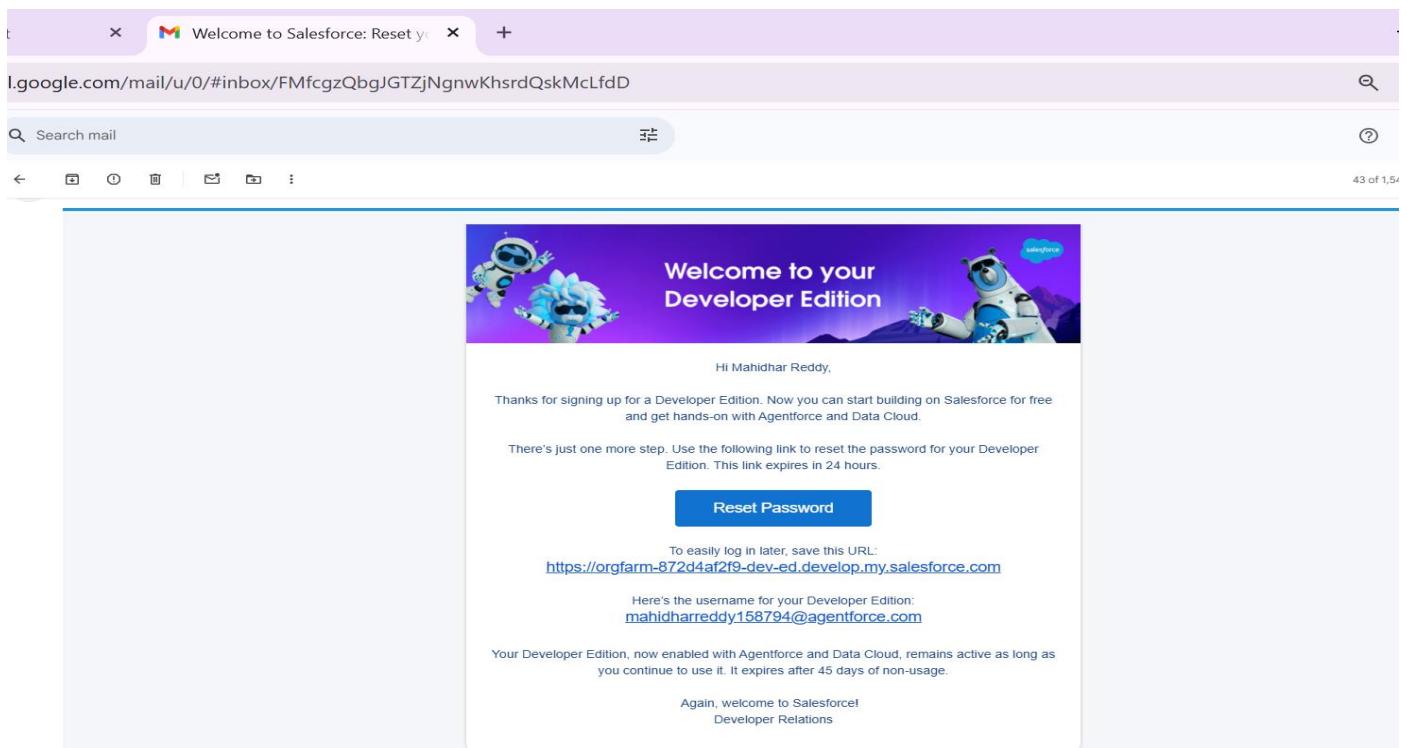
Customer Support

Sales Coach

Sign Me Up

## Step2: 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
- 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.



Welcome to your Developer Edition

Hi Mahidhar Reddy,

Thanks for signing up for a Developer Edition. Now you can start building on Salesforce for free and get hands-on with Agentforce and Data Cloud.

There's just one more step. Use the following link to reset the password for your Developer Edition. This link expires in 24 hours.

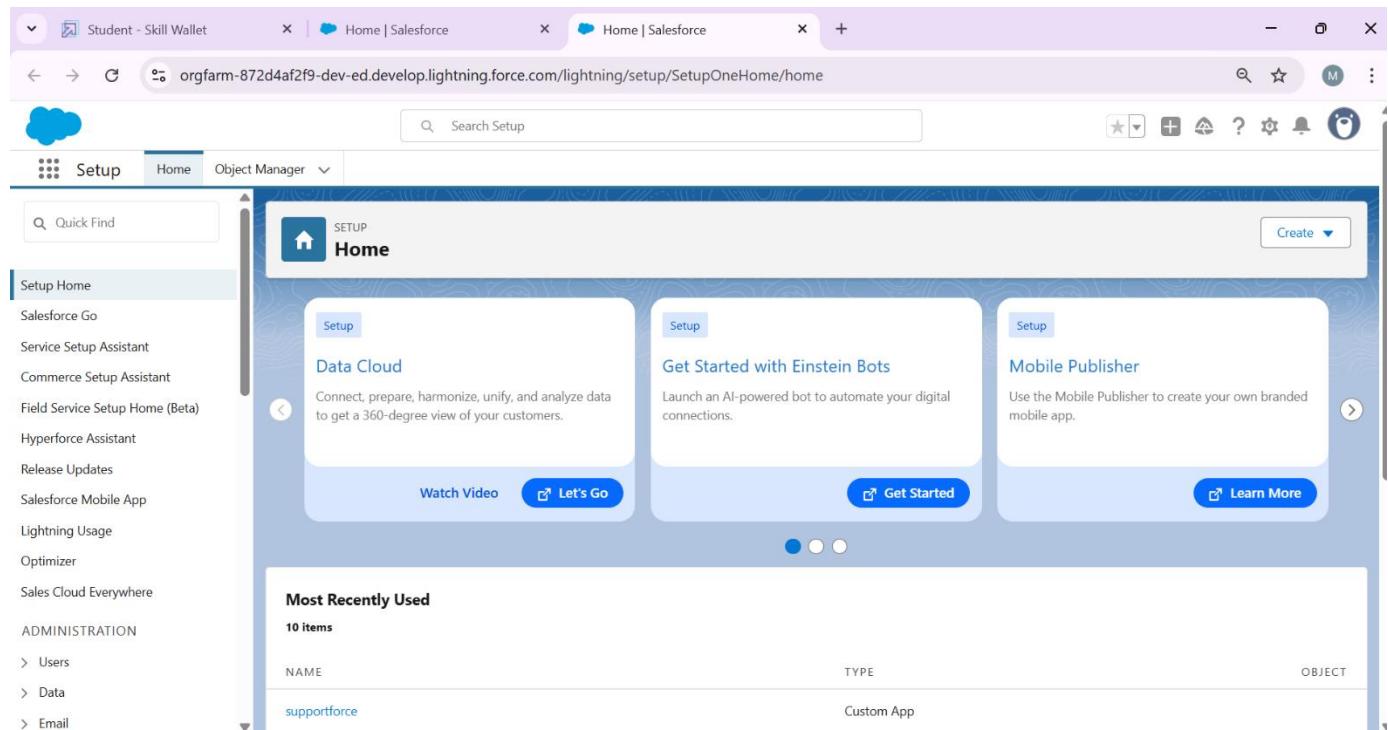
[Reset Password](https://orgfarm-872d4af2f9-dev-ed.develop.my.salesforce.com)

To easily log in later, save this URL:  
<https://orgfarm-872d4af2f9-dev-ed.develop.my.salesforce.com>

Here's the username for your Developer Edition:  
[mahidharreddy158794@agentforce.com](mailto:mahidharreddy158794@agentforce.com)

Your Developer Edition, now enabled with Agentforce and Data Cloud, remains active as long as you continue to use it. It expires after 45 days of non-usage.

Again, welcome to Salesforce!  
 Developer Relations



The screenshot shows the Salesforce Setup Home page. On the left, there's a sidebar with links for Setup Home, Administration (Users, Data, Email), and Object Manager. The main area features three cards: 'Data Cloud' (Watch Video, Let's Go), 'Get Started with Einstein Bots' (Get Started), and 'Mobile Publisher' (Learn More). Below these is a section titled 'Most Recently Used' with a table showing one item: 'supportforce' (Custom App).

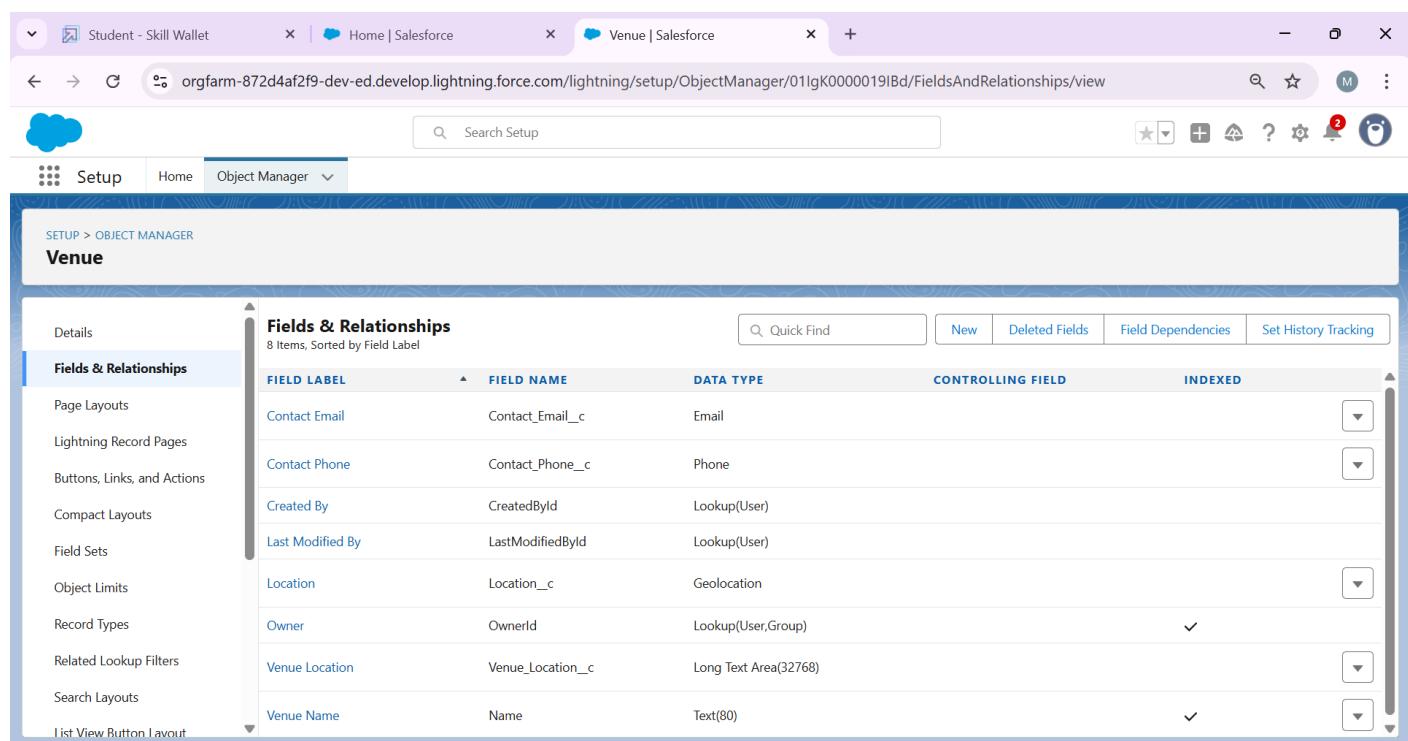
### 3. Salesforce Key Features:

Food Connect leverages the power of Salesforce to create an efficient, user-friendly platform that streamlines food redistribution and volunteer management. Here's how we have utilized Salesforce features to bring this initiative to life.

#### Custom Objects:

##### 1. Venues:

Store vital information about food donation locations, including address, capacity, and contact details, ensuring organized management of distribution points.

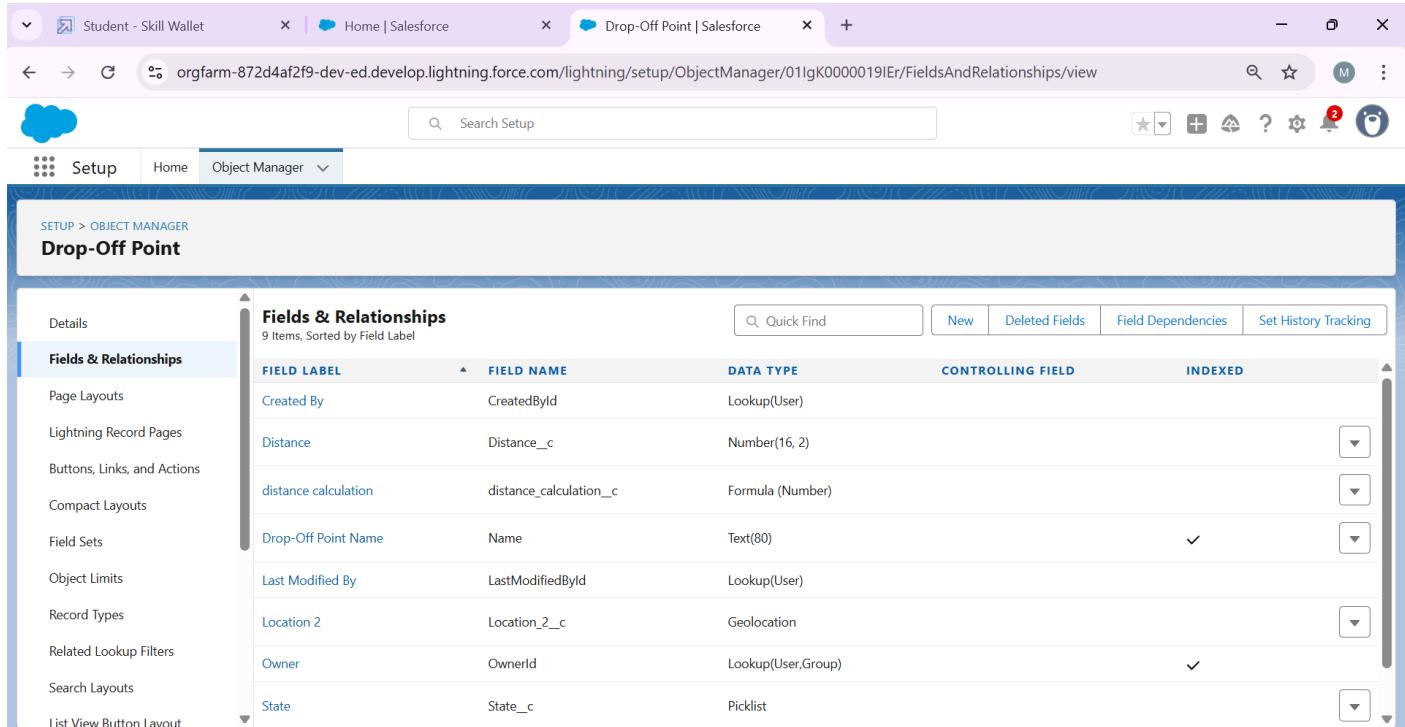


The screenshot shows the Salesforce Object Manager for the 'Venue' custom object. The left sidebar lists various object settings like Details, Fields & Relationships, Page Layouts, Lightning Record Pages, etc. The main area displays the 'Fields & Relationships' section with 8 items. The table shows the following fields:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Contact Email	Contact_Email_c	Email		
Contact Phone	Contact_Phone_c	Phone		
Created By	CreatedBy	Lookup(User)		
Last Modified By	LastModifiedBy	Lookup(User)		
Location	Location_c	Geolocation		
Owner	OwnerId	Lookup(User,Group)		✓
Venue Location	Venue_Location_c	Long Text Area(32768)		
Venue Name	Name	Text(80)		✓

## 2.Drop-off Points:

Record specific delivery locations, making it easier for volunteers to plan and execute tasks effectively.

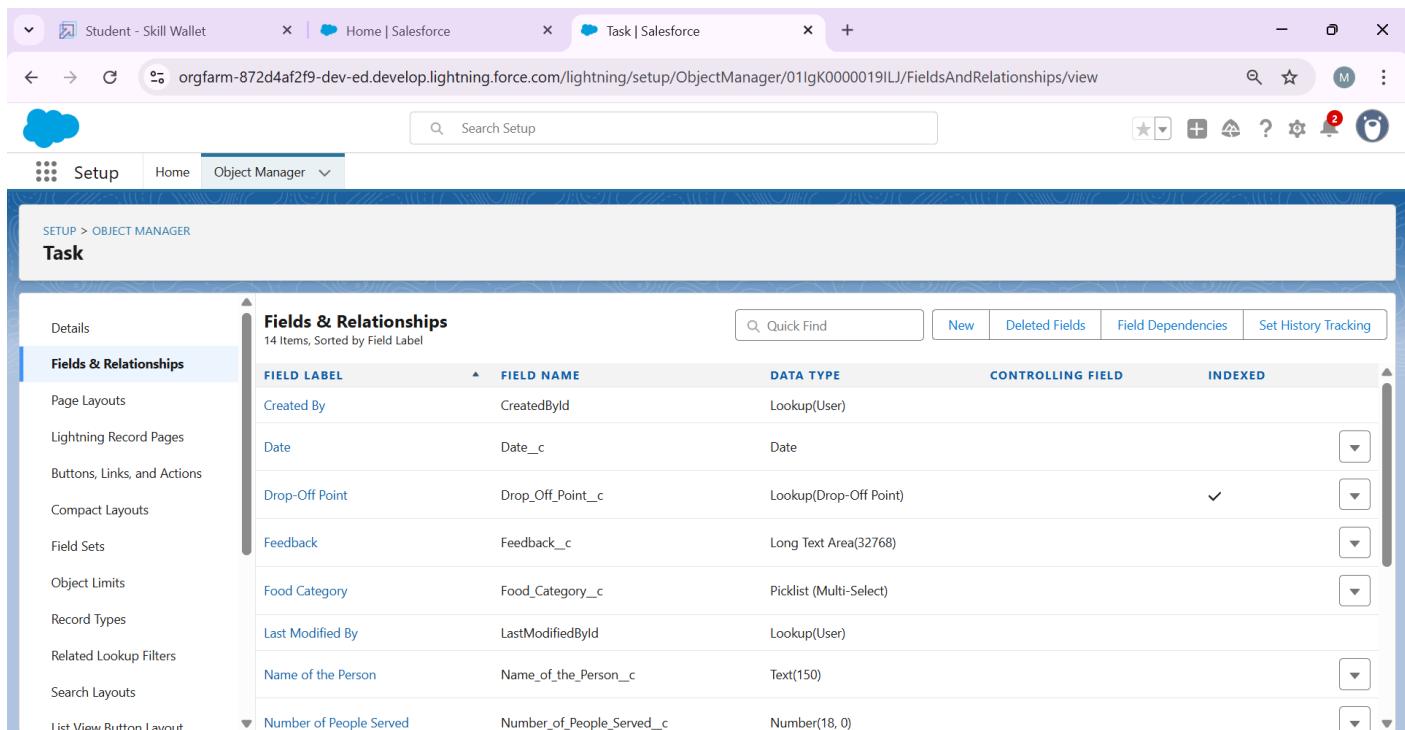


The screenshot shows the Salesforce Object Manager interface for the 'Drop-Off Point' object. The left sidebar lists various setup options like Page Layouts, Lightning Record Pages, and Field Sets. The main area displays the 'Fields & Relationships' section, which lists nine fields: Created By, Distance, distance calculation, Drop-Off Point Name, Last Modified By, Location 2, Owner, and State. Each field is defined by its label, name, data type, controlling field, and indexed status.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Distance	Distance__c	Number(16, 2)		
distance calculation	distance_calculation__c	Formula (Number)		
Drop-Off Point Name	Name	Text(80)		
Last Modified By	LastModifiedById	Lookup(User)		
Location 2	Location_2__c	Geolocation		
Owner	OwnerId	Lookup(User,Group)		
State	State__c	Picklist		

## 3.Tasks:

Track and manage volunteer assignments with fields for descriptions, deadlines, and responsible individuals.

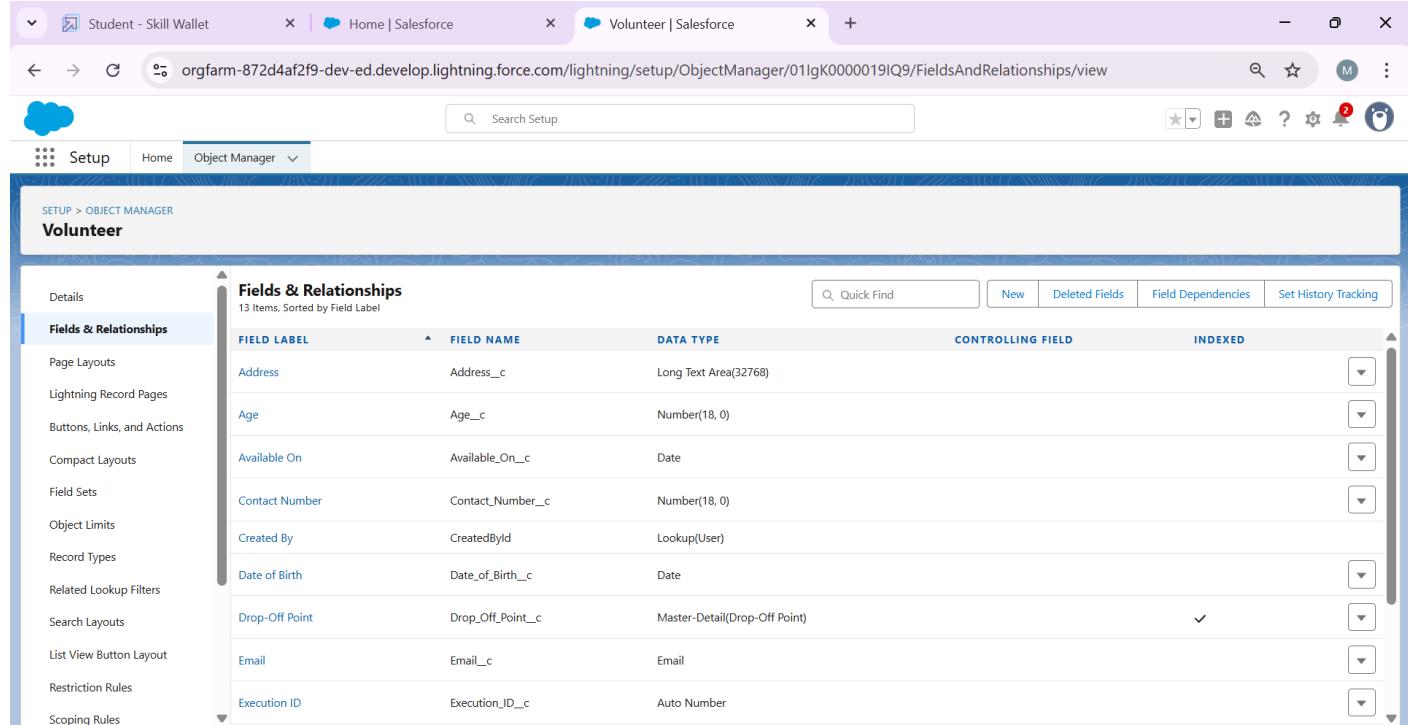


The screenshot shows the Salesforce Object Manager interface for the 'Task' object. The left sidebar lists various setup options. The main area displays the 'Fields & Relationships' section, which lists 14 fields: Created By, Date, Drop-Off Point, Feedback, Food Category, Last Modified By, Name of the Person, and Number of People Served. Each field is defined by its label, name, data type, controlling field, and indexed status.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Date	Date__c	Date		
Drop-Off Point	Drop_Off_Point__c	Lookup(Drop-Off Point)		
Feedback	Feedback__c	Long Text Area(32768)		
Food Category	Food_Category__c	Picklist (Multi-Select)		
Last Modified By	LastModifiedById	Lookup(User)		
Name of the Person	Name_of_the_Person__c	Text(150)		
Number of People Served	Number_of_People_Served__c	Number(18, 0)		

## 4. Volunteers:

Maintain a centralized database of volunteers, including their contact details, availability, and assigned tasks.

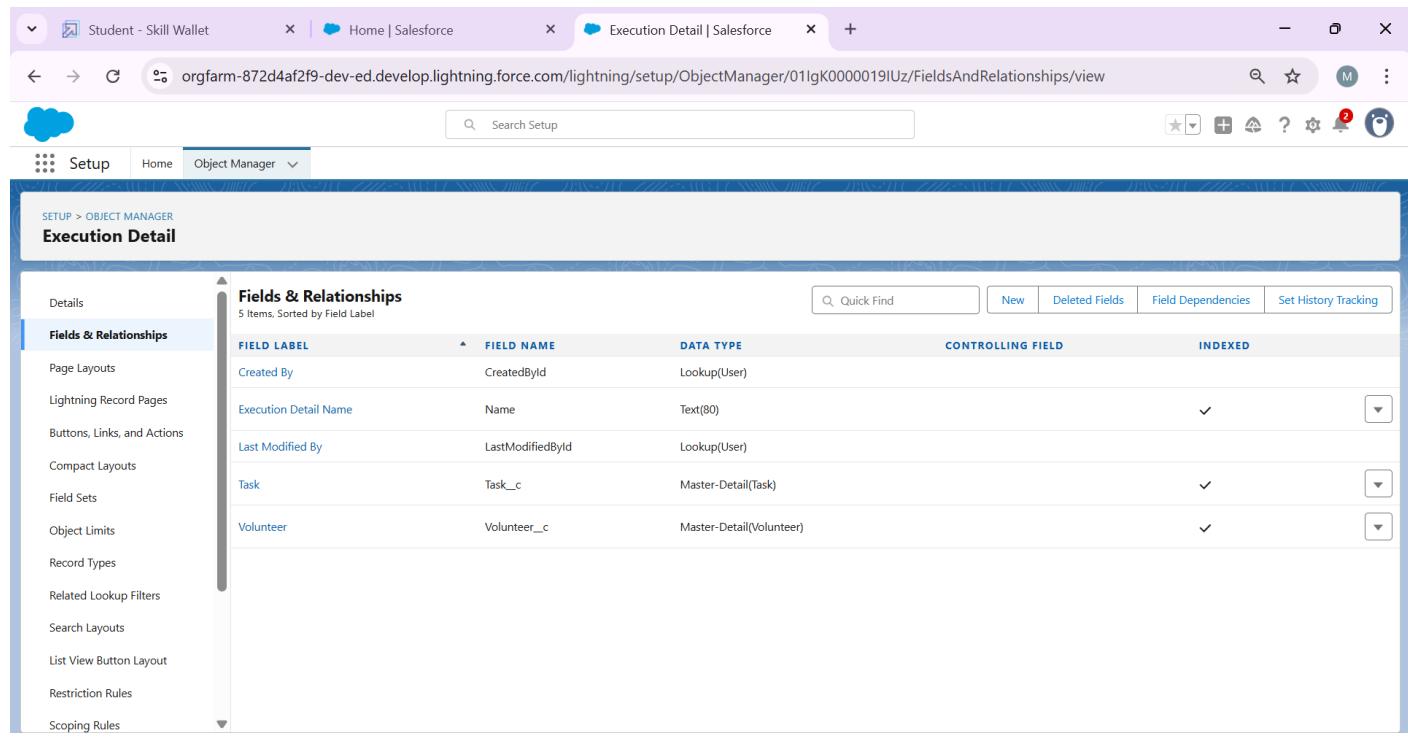


**Fields & Relationships**  
13 Items. Sorted by Field Label

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address_c	Long Text Area(32768)		
Age	Age_c	Number(18, 0)		
Available On	Available_On_c	Date		
Contact Number	Contact_Number_c	Number(18, 0)		
Created By	CreatedById	Lookup(User)		
Date of Birth	Date_of_Birth_c	Date		
Drop-Off Point	Drop_Off_Point_c	Master-Detail(Drop-Off Point)		✓
Email	Email_c	Email		
Execution ID	Execution_ID_c	Auto Number		

## 5. Execution Details:

Document completed tasks, linking them to specific volunteers and drop-off points for a detailed activity history.



**Fields & Relationships**  
5 Items. Sorted by Field Label

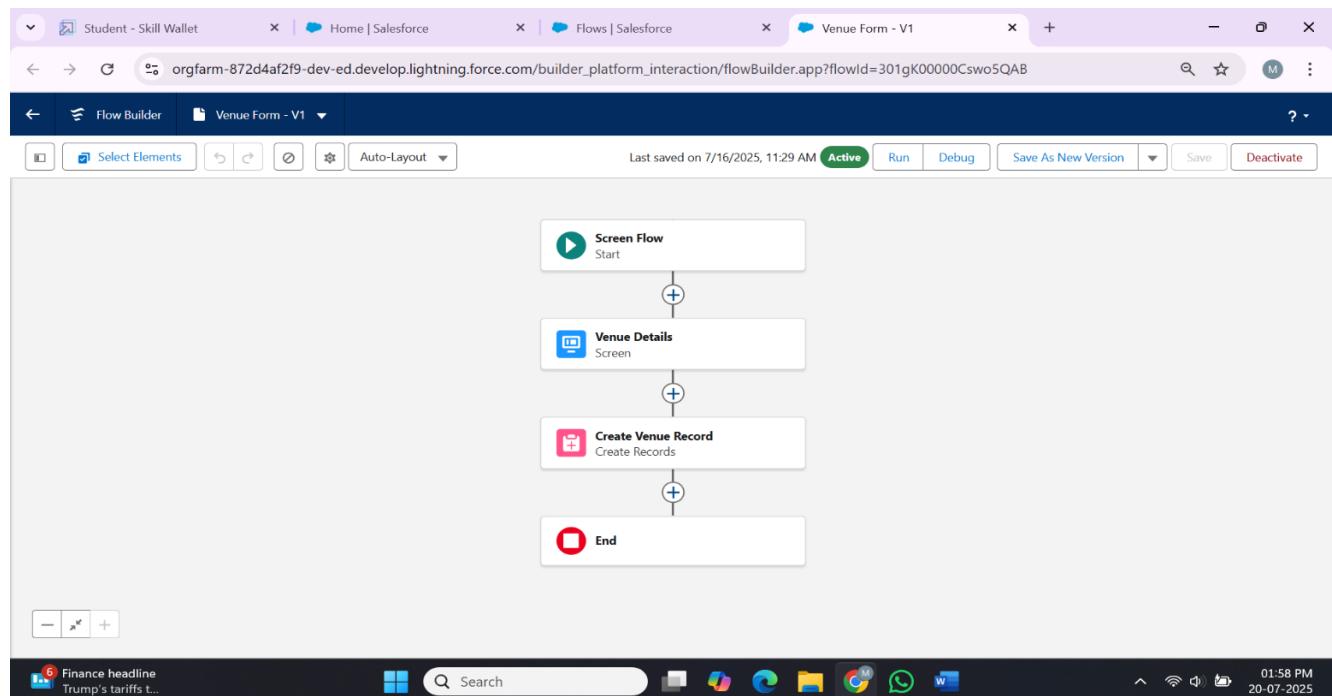
FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedBy	Lookup(User)		
Execution Detail Name	Name	Text(80)		✓
Last Modified By	LastModifiedById	Lookup(User)		
Task	Task_c	Master-Detail(Task)		✓
Volunteer	Volunteer_c	Master-Detail(Volunteer)		✓

## Relationships:

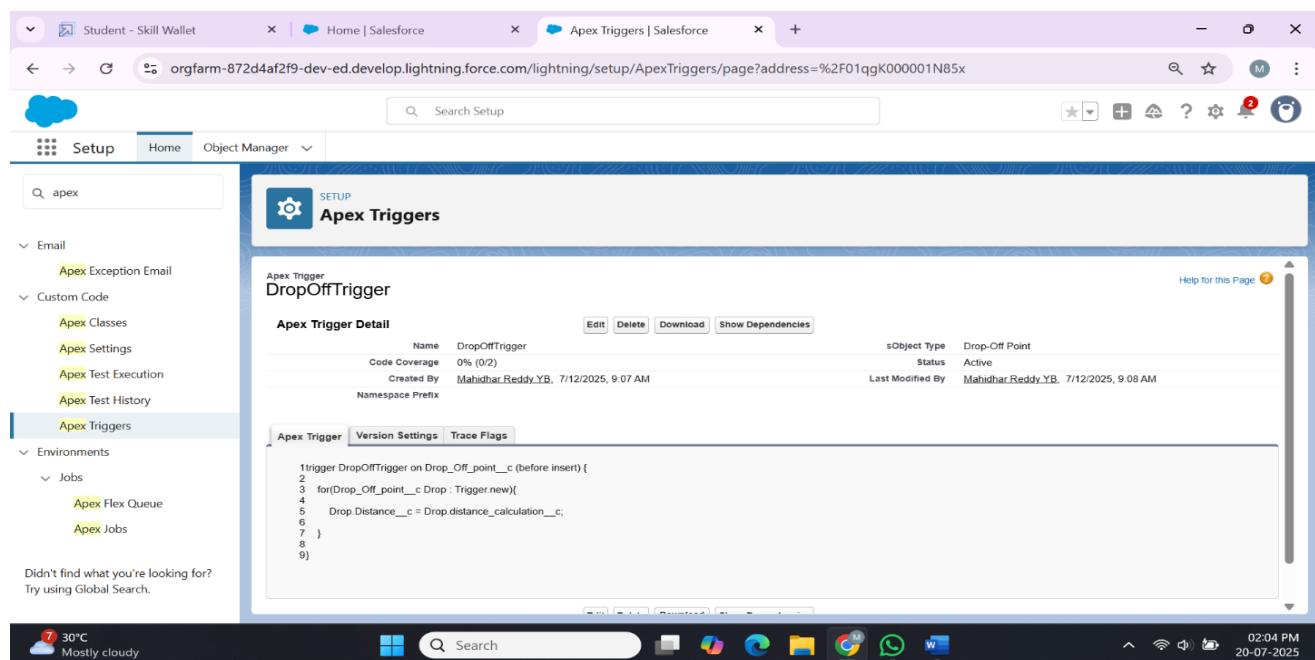
- **Master-detail Relationships:** Create structured connections, such as linking tasks to their execution details, ensuring data consistency and logical organization.
- **Lookup Relationships:** Enable flexible associations, like connecting volunteers to drop-off points, allowing for dynamic task allocation based on location availability.

## Automations and Workflows:

1. **Flows:** Automate processes like creating venue records or assigning tasks, guiding users through step-by-step workflows to ensure accuracy and efficiency.



2. **Apex Triggers:** Implement custom logic, such as calculating distances between venues and volunteers, to optimize task assignments and reduce delivery times.



The screenshot shows the Salesforce Setup interface with the search bar set to "apex". The left sidebar is expanded to show categories like Email, Custom Code, Apex Classes, Apex Settings, Apex Test Execution, Apex Test History, and Apex Triggers, with "Apex Triggers" selected. The main content area displays the "Apex Trigger Detail" for "DropOffTrigger". The trigger code is as follows:

```

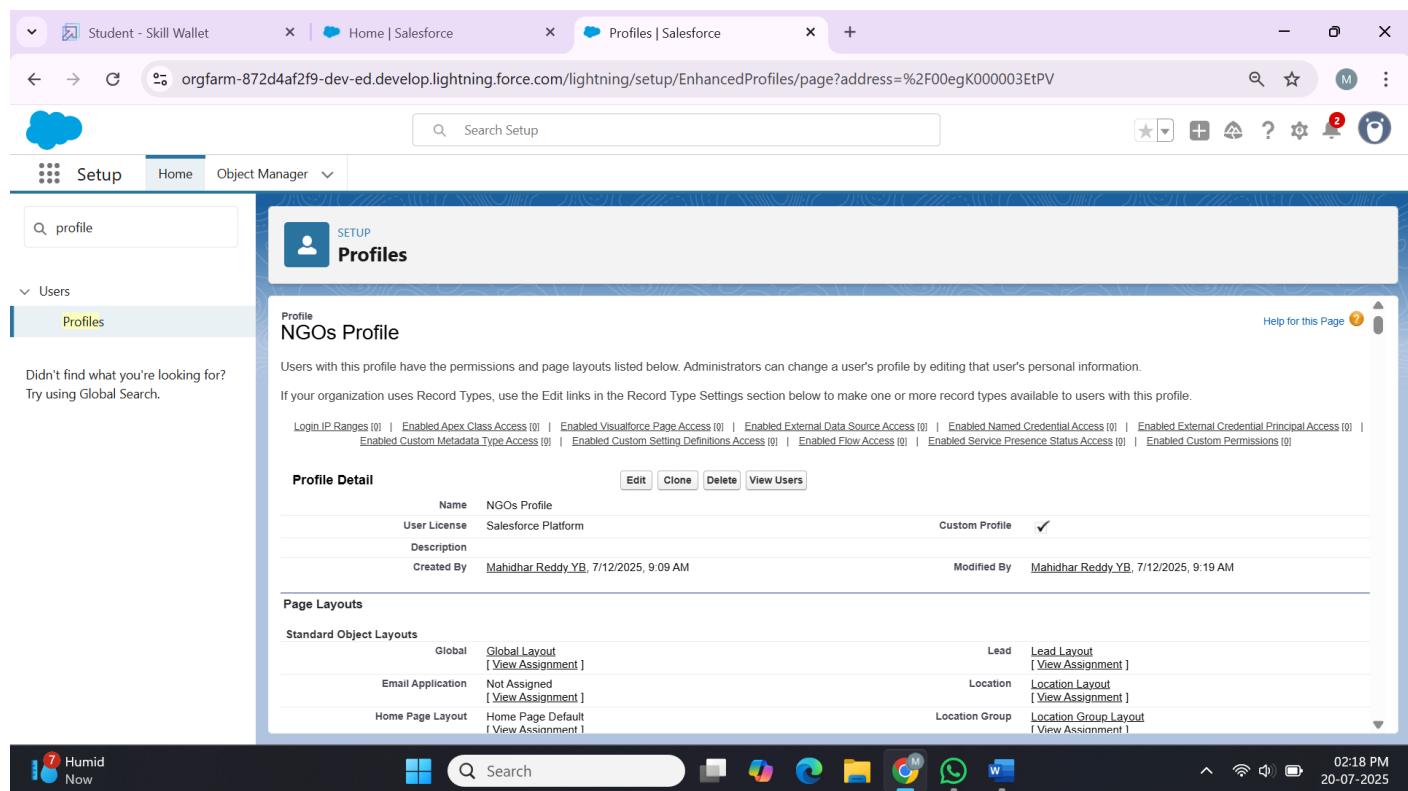
trigger DropOffTrigger on Drop_Off_point__c (before insert) {
    for(Drop_Off_point__c Drop : Trigger.new){
        Drop.Distance__c = Drop.distance_calculation__c;
    }
}

```

The trigger is active and was created by Mahidhar.Reddy.YB on 7/12/2025 at 9:07 AM.

## Data Sharing and Security:

- Profiles:** An NGO Profile was created by cloning the Standard Platform User profile to provide tailored access for NGO representatives. This custom profile includes permissions to view and manage relevant records such as Donations, Deliveries, Beneficiaries, and Volunteer Assignments, while restricting access to administrative settings and unrelated data. By customizing this profile, the system ensures that NGO users can efficiently coordinate food distributions and monitor deliveries without compromising data security or system integrity.



The screenshot shows the Salesforce Setup interface with the search bar set to "profile". The left sidebar is expanded to show categories like Users and Profiles, with "Profiles" selected. The main content area displays the "Profile Detail" for "NGOs Profile". The profile has the following details:

Name	NGOs Profile
User License	Salesforce Platform
Description	
Created By	Mahidhar Reddy.YB, 7/12/2025, 9:09 AM
Modified By	Mahidhar Reddy.YB, 7/12/2025, 9:19 AM

The "Page Layouts" section shows standard object layouts for Global, Lead, and Location.

- Users:** Three NGO users — Iksha Foundation, NSS, and Street Cause — were created in the system and assigned the custom NGO Profile. This setup ensures that each organization has secure, role-based access to the system's features and data.



based access to manage donations, coordinate with volunteers, and track food deliveries within the CRM platform.

The screenshot shows the Salesforce Setup interface with the 'Users' page selected. The left sidebar includes links for Permission Set Groups, Permission Sets, Profiles, Public Groups, Queues, Roles, User Management Settings, and a prominent 'Users' link. The main content area displays a table of users with columns for Action, Full Name, Alias, Username, Role, Active, and Profile. One user, 'EPIC\_Qu\_Epic', is highlighted with a red box. The bottom of the screen shows a taskbar with various icons and the date/time: 20-07-2025, 02:21 PM.

- Reports:** Two custom reports were created to enhance operational tracking and coordination:
  - Venue and Dropoff Point Report – Built using the “Venue with Dropoff” report type, this report provides insights into food donation locations and their corresponding drop-off points. It helps in planning logistics and optimizing delivery routes.
  - Volunteer Task Report – Created using the “Volunteers with Execution Details and Task” report type, this report tracks volunteer assignments, task completion status, and execution timelines. It is essential for monitoring volunteer activity and improving task distribution.

The screenshot shows the FoodConnect interface with the 'Reports' section selected. The left sidebar lists categories like Reports, Recent, and Folders. The main content area displays a table of reports with columns for Report Name, Description, Folder, Created By, Created On, and Subscribed. One report, 'Sample Flow Report: Screen Flows', is highlighted with a red box. The bottom of the screen shows a taskbar with various icons and the date/time: 20-07-2025, 02:26 PM.

- Dashboards:** Provide visual representations of key data, empowering stakeholders to make informed decisions and track progress in real-time.



The screenshot shows the Salesforce Lightning Experience. At the top, there are three tabs: "Student - Skill Wallet", "Recent | Dashboards | Salesforce", and "Users | Salesforce". The URL in the address bar is <https://orgfarm-872d4af2f9-dev-ed.lightning.force.com/lightning/o/Dashboard/home?queryScope=mru>. The main content area is titled "Dashboards" and "Recent". It lists one item: "Organization Details" (Dashboard Name), which is in the "Custom Dashboards" folder, created by Mahidhar Reddy YB on 7/15/2025, 10:34 PM. On the left sidebar, there are sections for DASHBOARDS (Recent, Created by Me, Private Dashboards, All Dashboards), FOLDERS (All Folders, Created by Me, Shared with Me), and FAVORITES (All Favorites). The bottom status bar shows the URL again, the weather (9°C, Mostly cloudy), and the date/time (02:32 PM, 20-07-2025).

## User Experience:

**Lightning App:** Deliver a sleek, intuitive interface that simplifies navigation and ensures users can quickly access essential features.

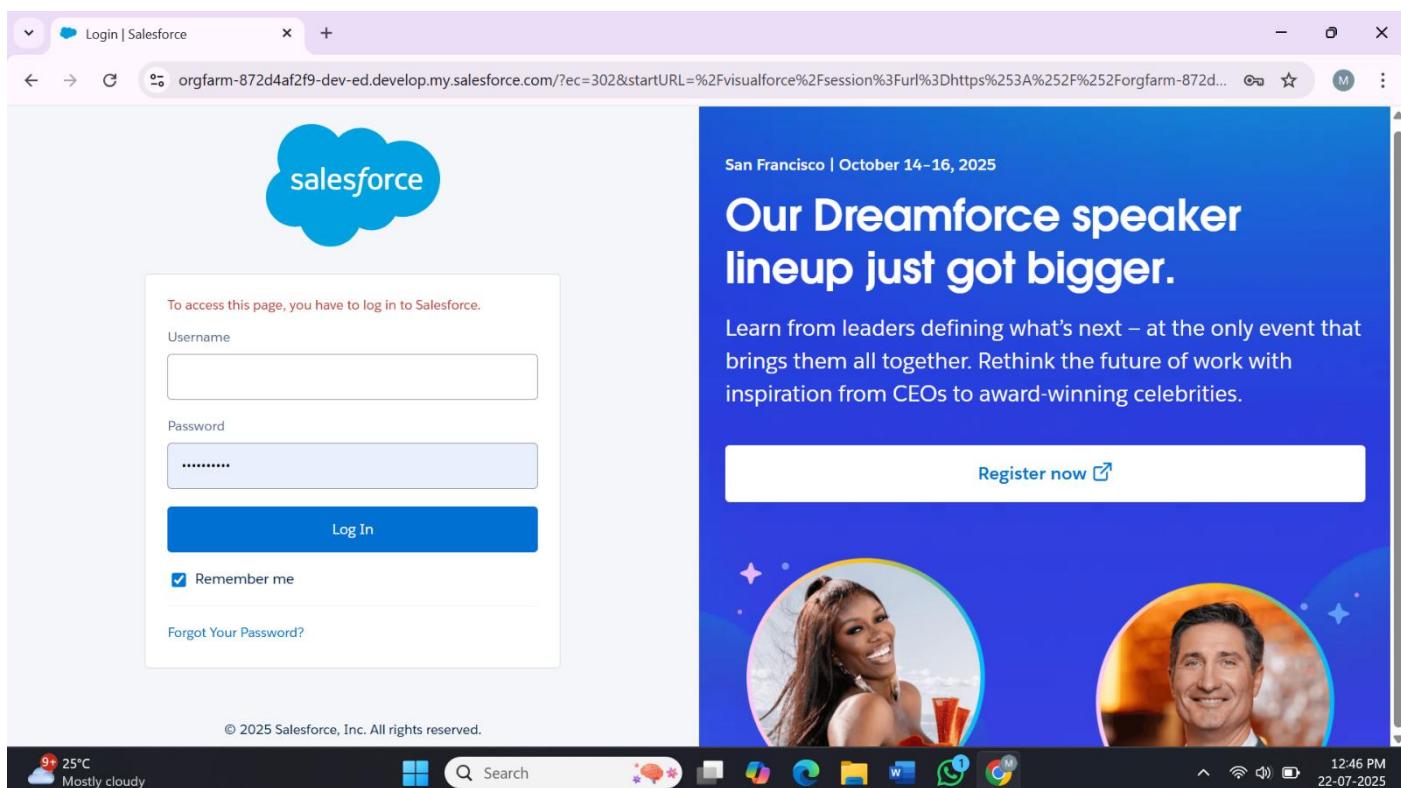
The screenshot shows the Salesforce Lightning App Builder. At the top, there are two tabs: "Home | Salesforce" and "Lightning App Builder | Salesforce". The URL in the address bar is <https://orgfarm-872d4af2f9-dev-ed.lightning.force.com/lightning/setup/FlexiPageList/page?address=%2F0M0gK000001dzav>. The main content area is titled "SETUP Lightning App Builder". It shows a "Lightning Page Detail" for "HOME". The "Information" section has fields for "Name" (HOME) and "Label" (HOME). On the left sidebar, there is a search bar with "app buil" and a tree view with nodes like "Feature Settings", "Service", "Field Service", "Field Service Mobile", "Field Service Mobile App Builder", and "User Interface". The "Lightning App Builder" node is selected. The bottom status bar shows the URL again, the weather (9°C, Mostly cloudy), and the date/time (07:19 PM, 21-07-2025).

## 4. Detailed steps to build project

Building FoodConnect involved a structured and thoughtful approach to ensure the platform meets the needs of donors, volunteers, and recipients while leveraging the robust capabilities of salesforce. Below is a step-by-step breakdown of the project design and implementation process.

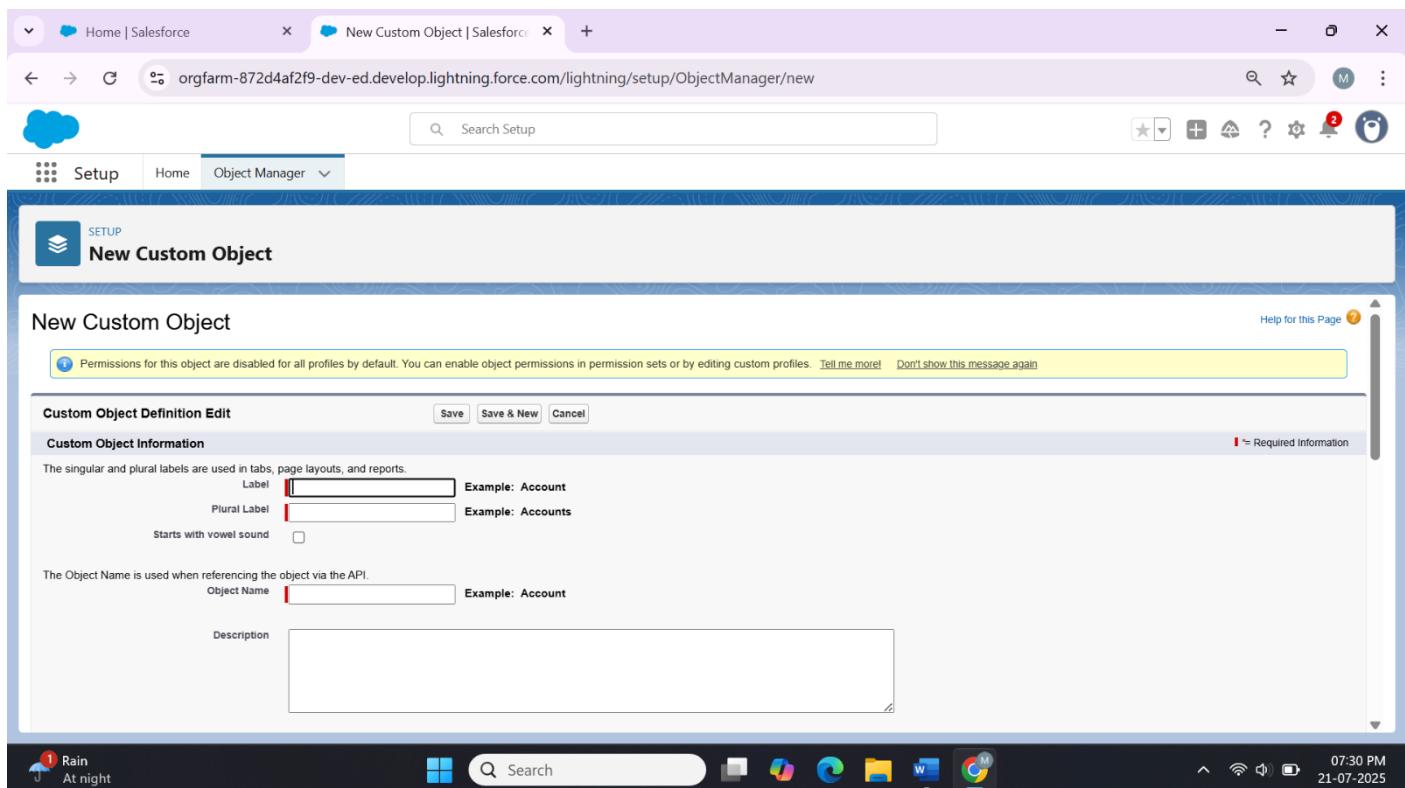
### Step 1: Login to Salesforce

- Go to: <https://login.salesforce.com>
- Enter your credentials:
  - Username: (Usually an email format like yourname@example.com)
  - Password
- Click: Log In



### Step 2: Creation Custom Objects

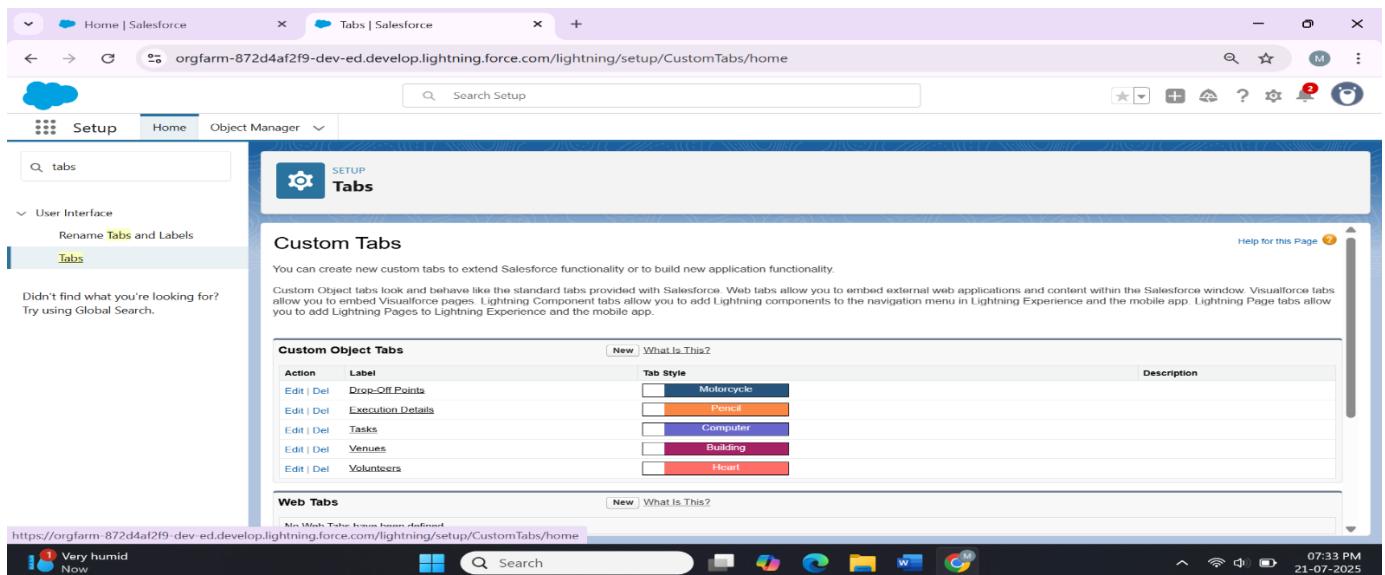
- Used salesforce object manager to design custom objects for venues, Drop-off points, Tasks, Volunteers and Execution details
- Configured fields such as text, numbers, dates and relationships to capture all relevant data, ensuring each object reflects the real-world requirements of food distribution logistics.



The screenshot shows the Salesforce Setup interface with the 'Object Manager' tab selected. A message at the top indicates that permissions for the custom object are disabled by default. The 'Custom Object Definition Edit' section contains fields for 'Label' (Account), 'Plural Label' (Accounts), and 'Object Name' (Account). A 'Description' text area is also present.

## Step 3: Custom Tabs

- Created custom tabs for each object, improving navigation and making it easier for users to access and manage data

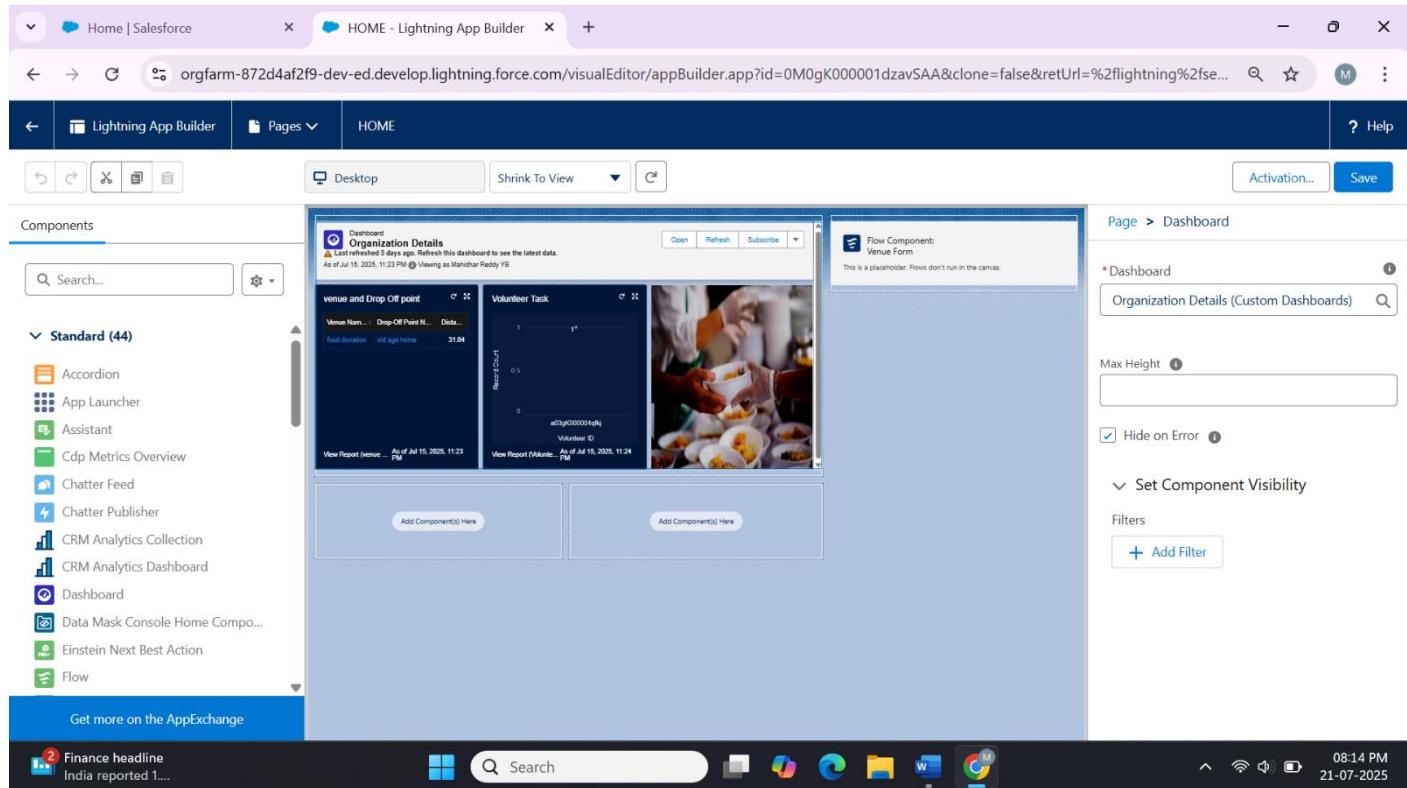


The screenshot shows the Salesforce Setup interface with the 'Custom Tabs' page selected. It displays a table of 'Custom Object Tabs' with columns for Action, Label, Tab Style, and Description. The table includes rows for Drop-Off Points, Execution Details, Tasks, Venues, and Volunteers, each associated with a specific tab style color.

Action	Label	Tab Style	Description
Edit   Del	Drop-Off Points	Motorcycle	
Edit   Del	Execution Details	Pencil	
Edit   Del	Tasks	Computer	
Edit   Del	Venues	Building	
Edit   Del	Volunteers	Heart	

## Step 4: Lightning App

- Developed a lightning app named “**HOME**” using salesforce app manager.
- Included essential navigation items like custom objects, reports, and dashboards to provide a user-friendly interface.
- Assigned user profiles to ensure role-based access and security.



## Step 5: Relationships

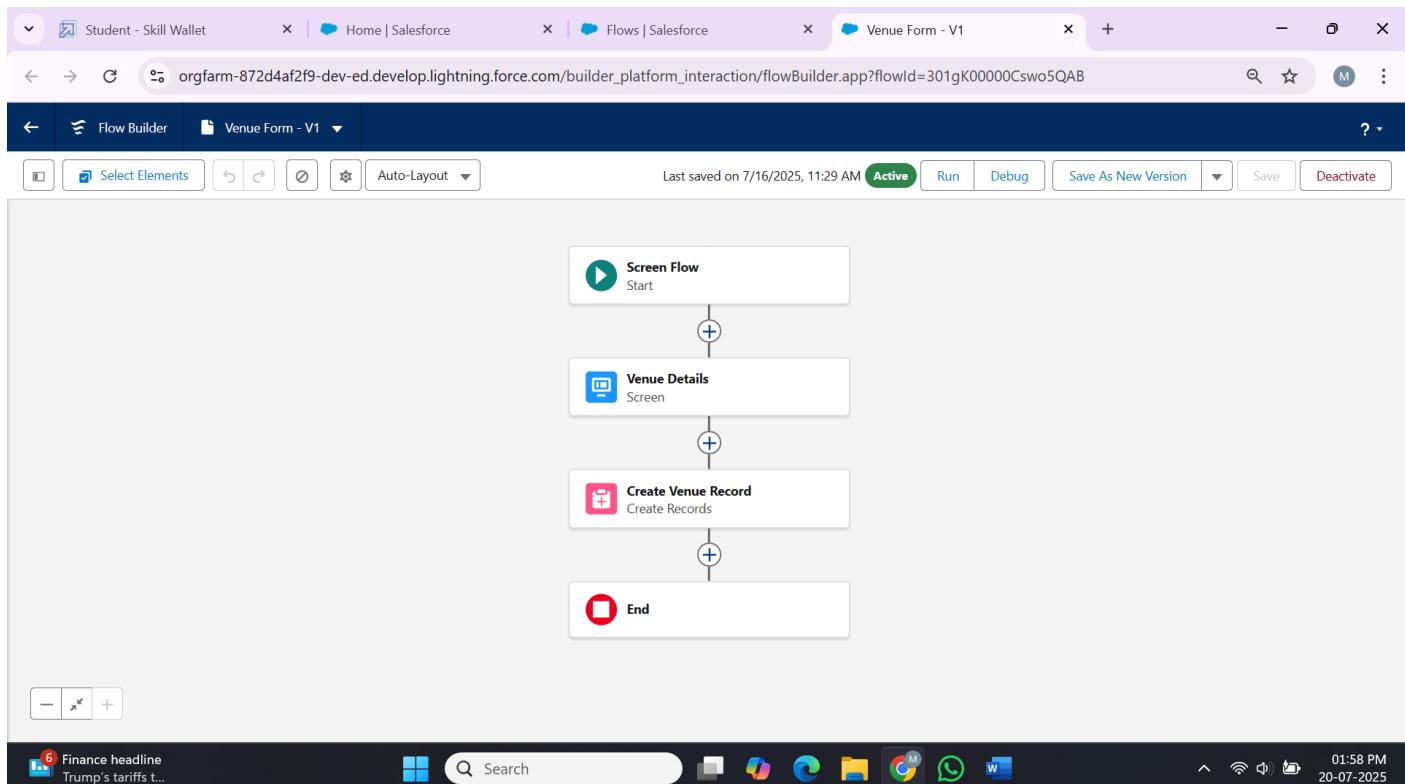
- Defined relationships between objects using master-detailed and lookup fields. For example:
  - Master-Detail between Tasks and Execution Details to track completed activities.
  - Lookup between Volunteers and Drop-Off Points to assign tasks efficiently.

## Step 6: Fields

- Configured fields for each custom object to capture data accurately. For instance:
  - Venue: Name, Address, Capacity, Contacts info.
  - Tasks: Description, Due Date, Assigned Volunteer.
  - Volunteers: Contact info, Availability etc.,

## Step 7: Flow

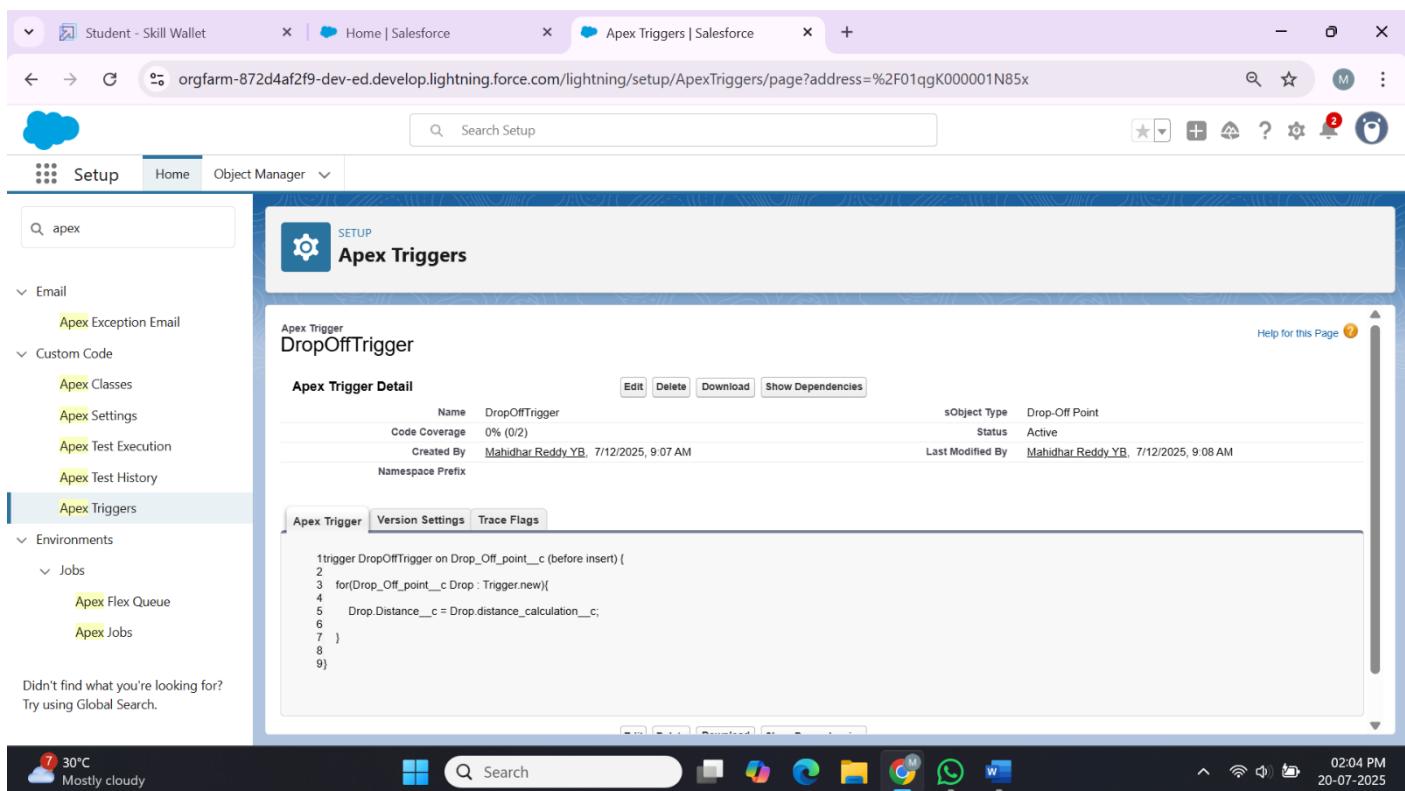
- Designed a guided screen flow to simplify the process of entering Venue information.
- Automated record creation to ensure data accuracy and reduce minimal errors.



The screenshot shows the Salesforce Flow Builder interface. At the top, there are tabs for 'Student - Skill Wallet', 'Home | Salesforce', 'Flows | Salesforce', and 'Venue Form - V1'. Below the tabs, the main area displays a 'Screen Flow' named 'Venue Form - V1'. The flow consists of four sequential steps: 'Start' (a green circle with a play icon), 'Venue Details' (a blue rectangle with a screen icon), 'Create Venue Record' (a pink rectangle with a plus icon), and 'End' (a red square). Each step has a '+' sign below it, indicating they can be modified. The status bar at the bottom shows 'Last saved on 7/16/2025, 11:29 AM Active Run Debug Save As New Version Save Deactivate'. The taskbar at the bottom includes icons for Finance headline, Search, and various applications like Google Chrome, WhatsApp, and Microsoft Word.

## Step 8: Apex Trigger Implementation

- Developed Apex trigger to enhance automation, such as calculating distances between venues and volunteers.
- These triggers help assign tasks based on proximity, improving logistical efficiency.



The screenshot shows the Salesforce Setup page under the 'Apex Triggers' section. The left sidebar shows navigation options like Email, Custom Code, Apex Classes, Apex Settings, Apex Test Execution, Apex Test History, and Apex Triggers. The Apex Triggers section is currently selected. In the main area, a table shows the details for the 'DropOffTrigger' Apex Trigger. The table includes columns for Name (DropOffTrigger), sObject Type (Drop-Off Point), Status (Active), and Last Modified By (Mahidhar Reddy.YB). The 'Code Coverage' is listed as 0% (0/2). The 'Created By' field shows Mahidhar Reddy.YB, and the 'Last Modified By' field also shows Mahidhar Reddy.YB. Below the table, the trigger's code is displayed:

```

trigger DropOffTrigger on Drop_Off_point__c (before insert) {
    2
    3    for(Drop_Off_point__c Drop : Trigger.new){
        4        Drop.Distance__c = Drop.distance_calculation__c;
        5    }
    6
    7
    8
}

```

The taskbar at the bottom shows a weather icon (30°C, mostly cloudy), a search bar, and various application icons.

## Step 9: User Management and Permissions

- Set up user profiles for administrators, volunteers, and other stakeholders.
- Configured permissions to ensure secure and role-appropriate access to data and functionalities.

## Step 10: Reports and Dashboards

- Created custom report types to analyze key metrics, such as volunteer participation, task completion rates, and food distribution impact.
- Built interactive dashboards to visualize data trends and provide actionable insights, empowering stakeholders to make informed decisions.

## 5. Testing

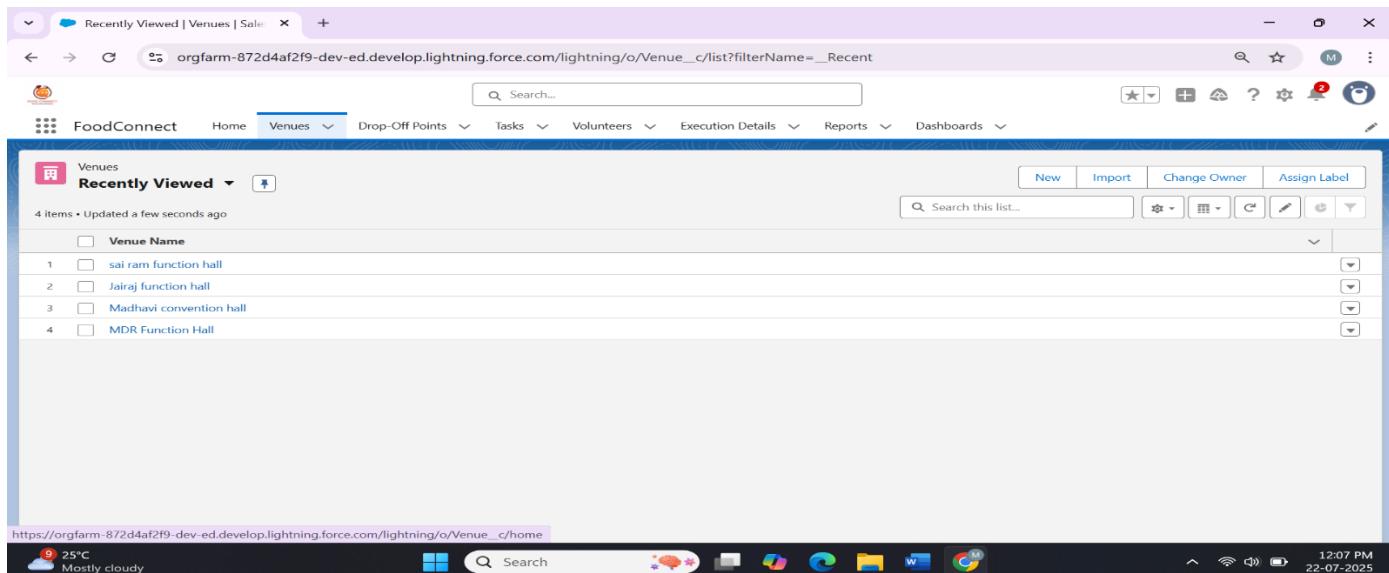
To ensure the FoodConnect solution functions seamlessly and meets all project requirements, a thorough testing and validation process was implemented. This approach focused on verifying both the technical and user-facing aspects of the system.

### 1. Unit Testing:

- **Objective:** Validate the functionality of individual components, such as Apex triggers, workflows, and custom objects.
- **Actions:**
  - Tested forms for venues, tasks, and drop-off points to ensure accurate data capture and validation.
  - Verified data storage and retrieval processes for volunteers, ensuring that all records were consistent and error-free.

### 2. User Interface Testing:

- **Objective:** Ensure the system is intuitive and user friendly for all stakeholders, including donors, volunteers, and administrators.
- **Actions:**
  - Conducted extensive testing across all pages to confirm responsive design and seamless navigation.
  - Verified that reports and dashboards displayed accurate and up-to-date data in an easily interpretable format.
  - Ensured compatibility across various devices, with a focus on mobile accessibility for field agents.



Venues  
**Recently Viewed**

4 items • Updated a few seconds ago

	Venue Name
1	sai ram function hall
2	Jairaj function hall
3	Madhavi convention hall
4	MDR Function Hall

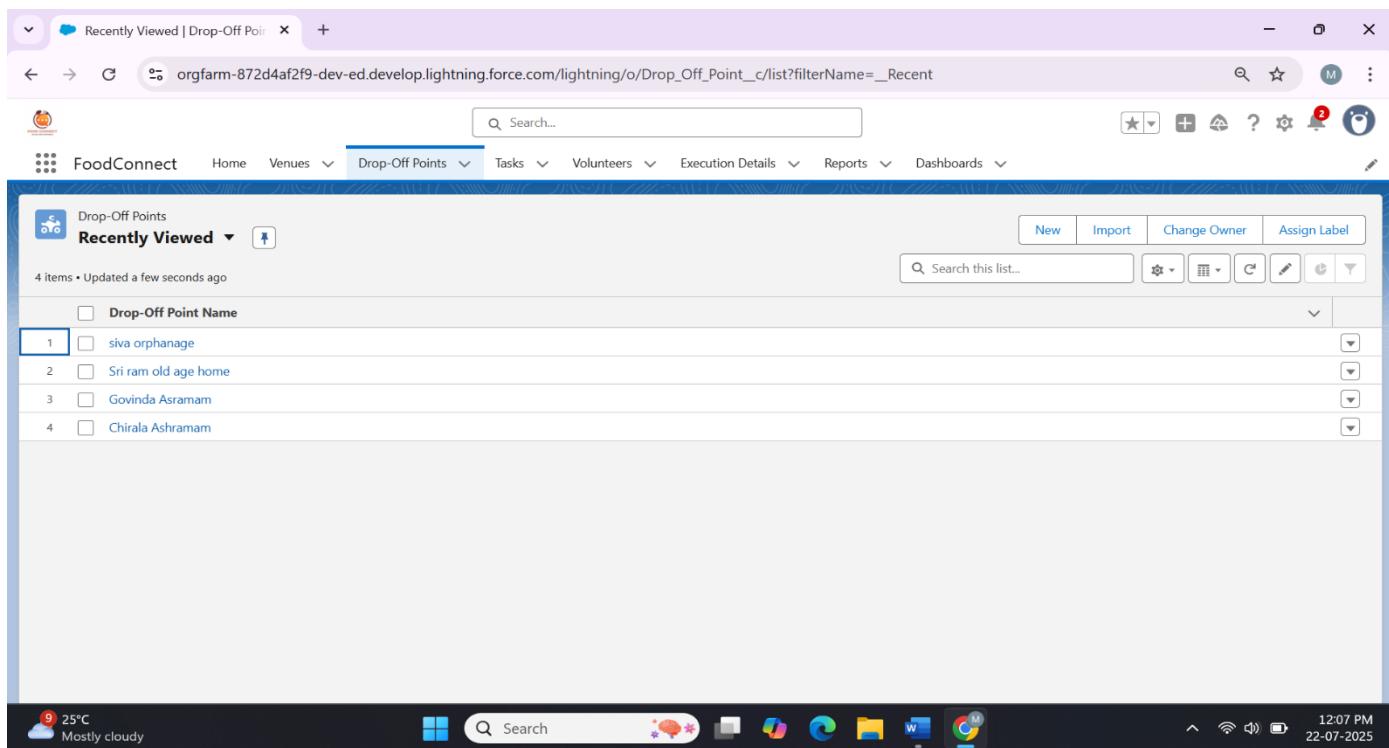
New Import Change Owner Assign Label

Search this list...

https://orgfarm-872d4af2f9-dev-ed.develop.lightning.force.com/lightning/o/Venue\_\_c/home

25°C Mostly cloudy 12:07 PM 22-07-2025

**Fig: Venue Records**



Drop-Off Points  
**Recently Viewed**

4 items • Updated a few seconds ago

	Drop-Off Point Name
1	siva orphanage
2	Sri ram old age home
3	Govinda Asramam
4	Chirala Ashramam

New Import Change Owner Assign Label

Search this list...

25°C Mostly cloudy 12:07 PM 22-07-2025

**Fig : Drop-off Points records**

Recently Viewed | Tasks | Salesforce

orgfarm-872d4af2f9-dev-ed.develop.lightning.force.com/lightning/o/Task\_\_c/list?filterName=\_Recent

FoodConnect Home Venues Drop-Off Points Tasks Volunteers Execution Details Reports Dashboards

Tasks Recently Viewed

4 items • Updated a few seconds ago

	Task Name
1	Food Catering
2	Food Sharing
3	food serving
4	food donation

Search...  Search this list...

New Import Change Owner Assign Label

12:08 PM 22-07-2025

### Fig: Tasks records

Recently Viewed | Volunteers

orgfarm-872d4af2f9-dev-ed.develop.lightning.force.com/lightning/o/Volunteer\_\_c/list?filterName=\_Recent

FoodConnect Home Venues Drop-Off Points Tasks Volunteers Execution Details Reports Dashboards

Volunteers Recently Viewed

4 items • Updated a few seconds ago

	Volunteer Name
1	vishnu
2	Venkat
3	vardhan
4	Mahesh

Search...  Search this list...

New Import Assign Label

12:10 PM 22-07-2025

### Fig: Volunteers records

Recently Viewed | Execution Details

orgfarm-872d4af2f9-dev-ed.develop.lightning.force.com/lightning/o/Execution\_Detail\_c/list?filterName=\_Recent

FoodConnect Home Venues Drop-Off Points Tasks Volunteers Execution Details Reports Dashboards

**Execution Details**

**Recently Viewed**

4 items • Updated a few seconds ago

Execution Detail Name
1 Food Catering
2 Food sharing
3 food serving
4 Food delivery

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Search

12:08 PM 22-07-2025

### Fig: Execution Details records

Recent | Reports | Salesforce

orgfarm-872d4af2f9-dev-ed.develop.lightning.force.com/lightning/o/Report/home?queryScope=mru

FoodConnect Home Venues Drop-Off Points Tasks Volunteers Execution Details Reports Dashboards

**Reports**

**Recent**

3 items

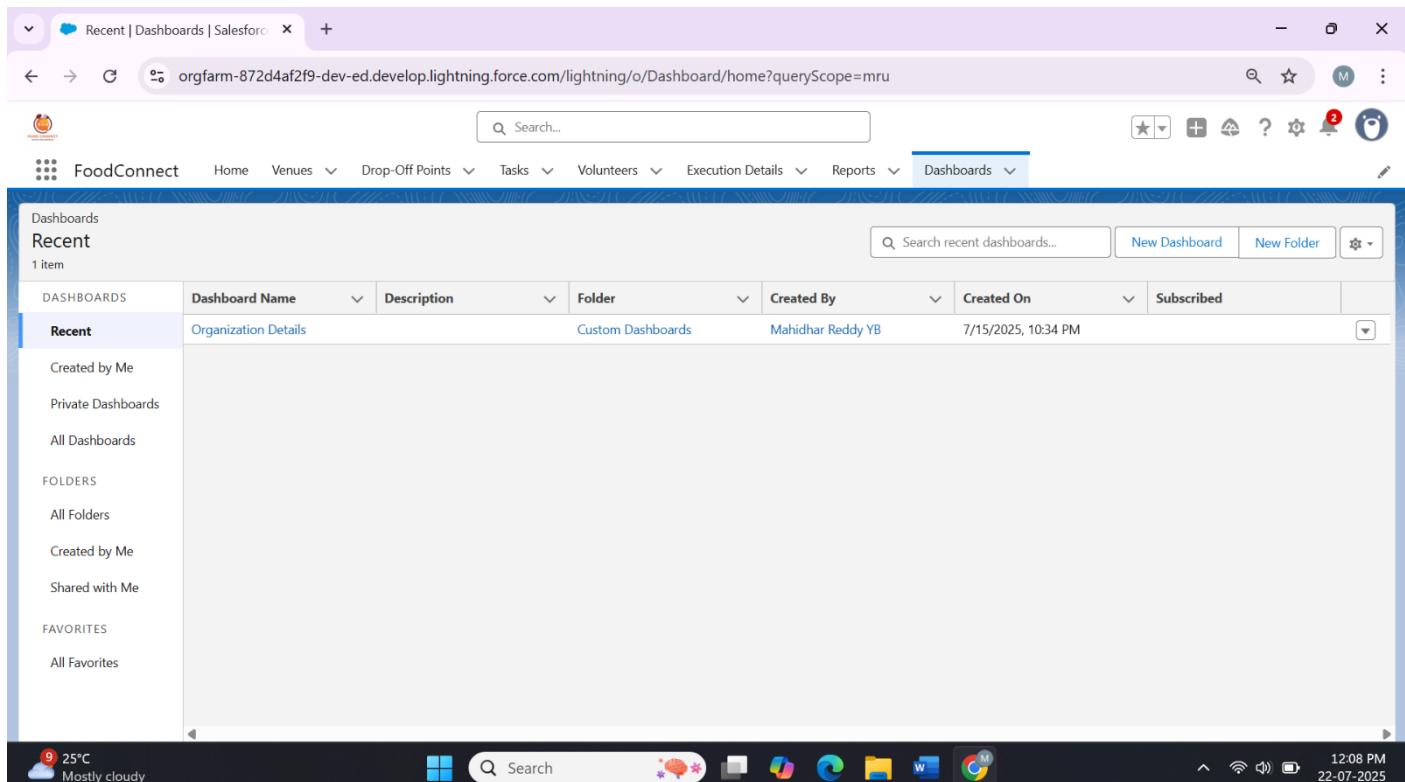
REPORTS	Report Name	Description	Folder	Created By	Created On	Subscribed
Recent	Sample Flow Report: Screen Flows	Which flows run, what's the status of each interview, and how long do users take to complete the screens?	Public Reports	Automated Process	7/1/2025, 10:54 AM	
Created by Me	Volunteer Task		Custom Reports	Mahidhar Reddy YB	7/15/2025, 10:31 PM	
Private Reports	venue and Drop Off point		Custom Reports	Mahidhar Reddy YB	7/15/2025, 9:56 AM	
Public Reports						
All Reports						
FOLDERS						
All Folders						
Created by Me						
Shared with Me						
FAVORITES						
All Favorites						

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Search

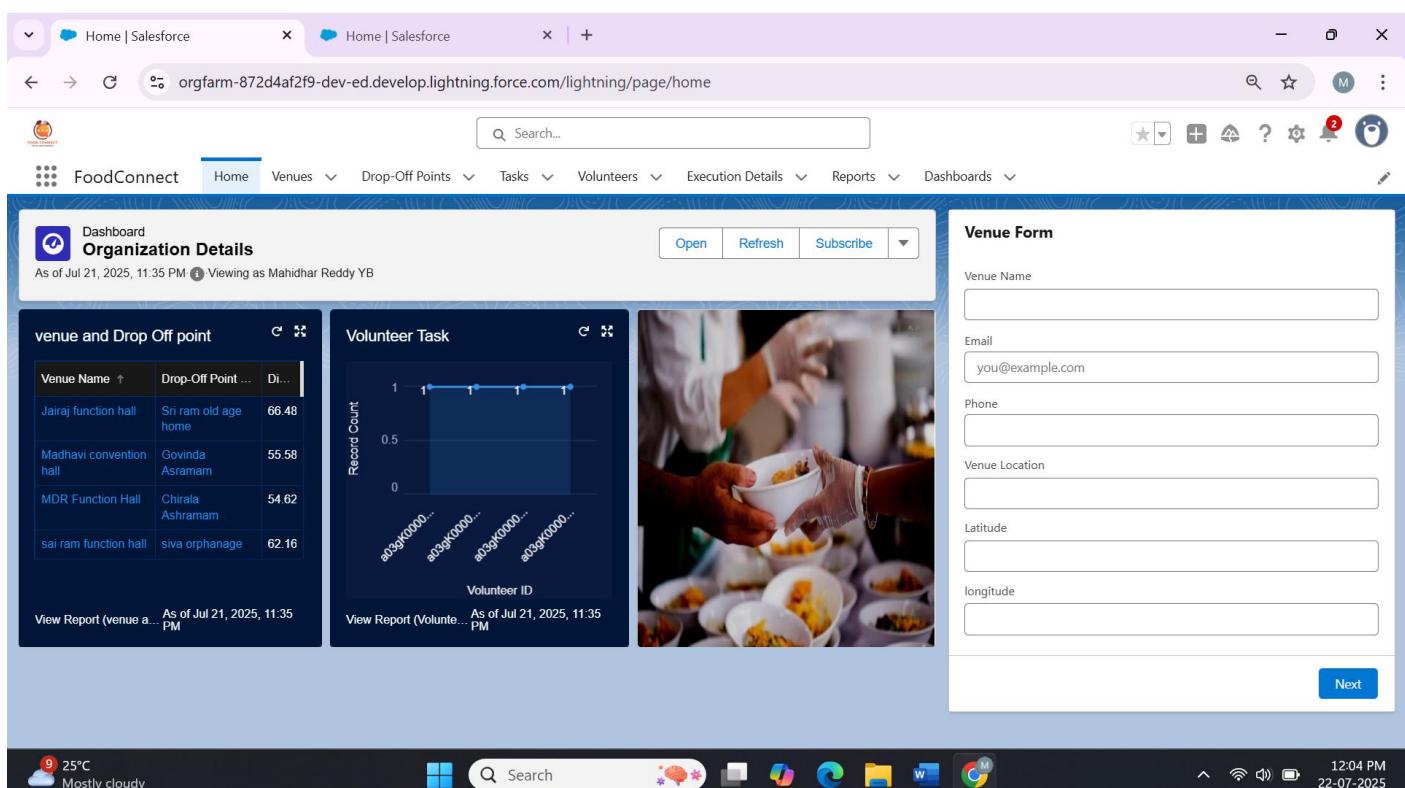
12:08 PM 22-07-2025

### Fig: Reports



The screenshot shows the Salesforce Dashboards page. On the left, there's a sidebar with categories: DASHBOARDS, FOLDERS, and FAVORITES. Under DASHBOARDS, 'Recent' is selected, showing one item: 'Organization Details' created by Mahidhar Reddy YB on 7/15/2025, 10:34 PM. The main area has a search bar and buttons for 'New Dashboard' and 'New Folder'. The bottom of the screen shows a Windows taskbar with various icons and system status.

## Fig: Dashboards



The screenshot shows the FoodConnect Home page. It features two main sections: 'venue and Drop Off point' (listing venues like Jairaj function hall, Madhavi convention hall, etc.) and 'Volunteer Task' (a chart showing record counts for different volunteer IDs). To the right, there's a 'Venue Form' with fields for Venue Name, Email, Phone, Venue Location, Latitude, and Longitude. The bottom of the screen shows a Windows taskbar with various icons and system status.

## Fig: Home page of FoodConnect

## 6. Real-World scenarios handled by salesforce CRM

The FoodConnect project leverages salesforce's capabilities to address a variety of real-world scenarios, ensuring efficient food redistribution and volunteer management. Below are the key scenarios tackled during the implementation.

### 1. Efficient Management of food donation venues

- **Scenario:** A donor provides surplus food, and the details of the donation venue need to be recorded accurately.
- **Salesforce solution:** Custom objects and fields were created to capture critical venue details, including name, address, capacity, and contract information, ensuring seamless record-keeping and accessibility.

### 2. Task Assignment and Tracking for Volunteers

- **Scenario:** Volunteers need to be assigned tasks based on their availability and proximity to venues or drop-off points.
- **Salesforce solution:** Using master-detail relationships and Apex triggers, tasks are automatically assigned to the most suitable volunteers, and progress is tracked in real-time through the Tasks object.

### 3. Coordination of Food Drop-Off Points

- **Scenario:** Food needs to be delivered to designated drop-off points efficiently and reliably.
- **Salesforce Solution:** Drop-Off Points were managed as a custom object, with detailed fields for location, capacity, and operational hours, enabling smooth coordination and tracking.

### 4. Volunteer Engagement and Management

- **Scenario:** Volunteers need to view their assignments, update their availability, and track their contributions.
- **Salesforce Solution:** A Volunteers object with a user-friendly interface allows volunteers to manage their profiles and view task details, enhancing engagement and retention.

### 5. Real-Time Communication and Notifications

- **Scenario:** Stakeholders require updates on task assignments, delivery schedules, or any changes in plans.
- **Salesforce Solution:** Automated workflows and notifications ensure that all participants are informed promptly, reducing delays and misunderstandings.

### 6. Data Integrity and Reporting

- **Scenario:** Stakeholders need to analyze the impact of food distribution efforts and identify areas for improvement.
- **Salesforce Solution:** Custom report types and dashboards provide actionable insights into task completion rates, volunteer participation, and food distribution metrics, ensuring data-driven decision-making.

### 7. Automation of logistical calculation

- **Scenario:** Volunteers need to be assigned to venues or drop-off points based on proximity to minimize travel time and enhance efficiency.

- **Salesforce Solution:** Apex triggers calculate distances between venues and volunteers, automating task assignments and optimizing logistics.

## 8. Secure and Role-Based Data Access

- **Scenario:** Different stakeholders require access to specific information based on their roles.
- **Salesforce Solution:** Profiles, sharing rules, and public groups ensure that users only access data relevant to their roles, maintaining security and confidentiality.

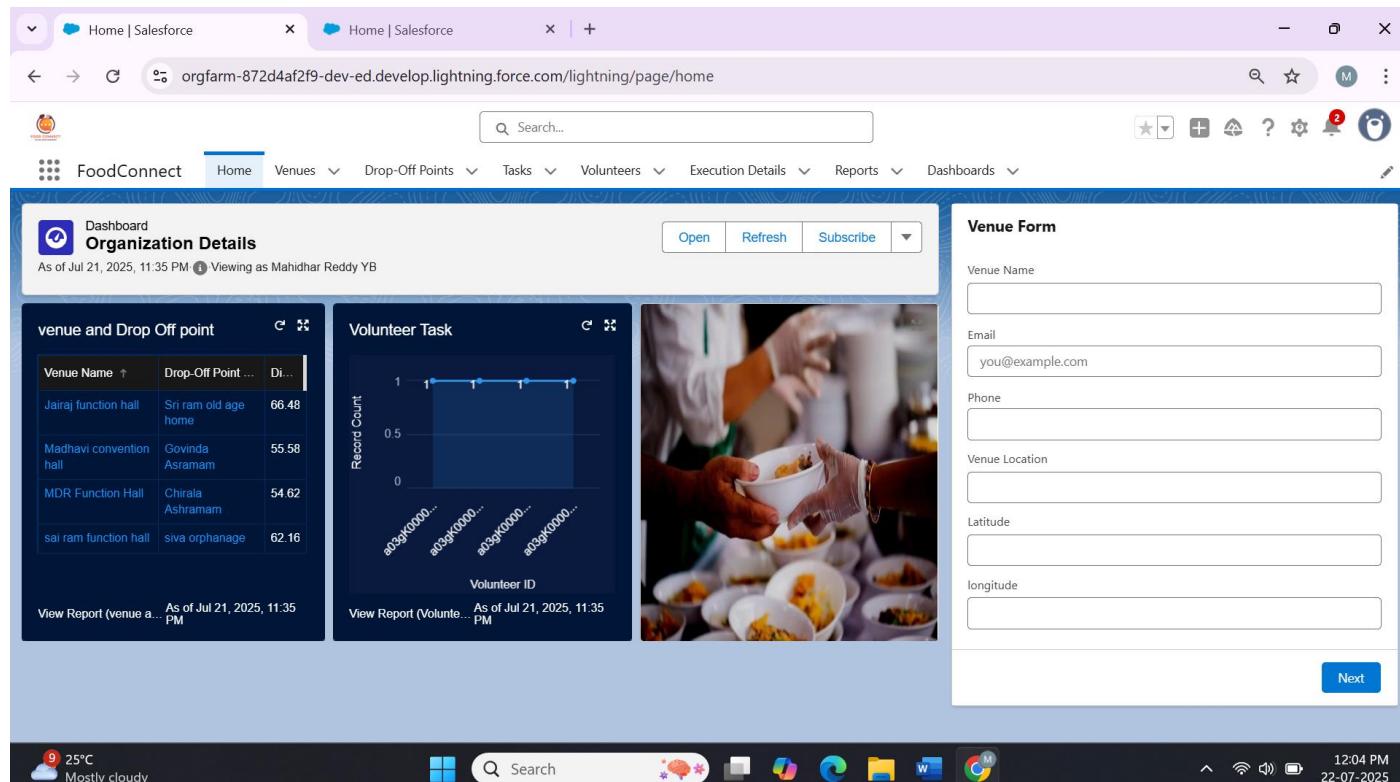
## 7. Conclusion

### Achievements:

The FoodConnect project successfully delivered a comprehensive solution to address food waste and hunger by leveraging the power of Salesforce technology.

### Key accomplishments include:

- **Streamlined Food Distribution:** Developed a robust system to manage the collection, allocation, and delivery of surplus food to underserved communities.
- **Enhanced Volunteer Management:** Implemented efficient task assignment and tracking mechanisms to optimize volunteer engagement and contributions.
- **Data-Driven Insights:** Created detailed reports and dashboards, providing actionable insights into food redistribution metrics, volunteer participation, and overall impact.
- **User-Friendly Interface:** Designed an intuitive Lightning App, ensuring a seamless experience for all users, including donors, volunteers, and administrators.
- **Operational Efficiency:** Automated workflows and triggers to reduce manual effort, improve accuracy, and ensure timely execution of tasks.



Venue Name	Drop-Off Point	Di...
Jairaj function hall	Sri ram old age home	66.48
Madhavi convention hall	Govinda Asramam	55.58
MDR Function Hall	Chirala Ashramam	54.62
sai ram function hall	siva orphanage	62.16

Record Count

Volunteer ID

Venue Form

Venue Name

Email

Phone

Venue Location

Latitude

Longitude

Next

9 25°C Mostly cloudy

Search

22:04 PM  
22-07-2025

**Fig: Home Page of FoodConnect**