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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

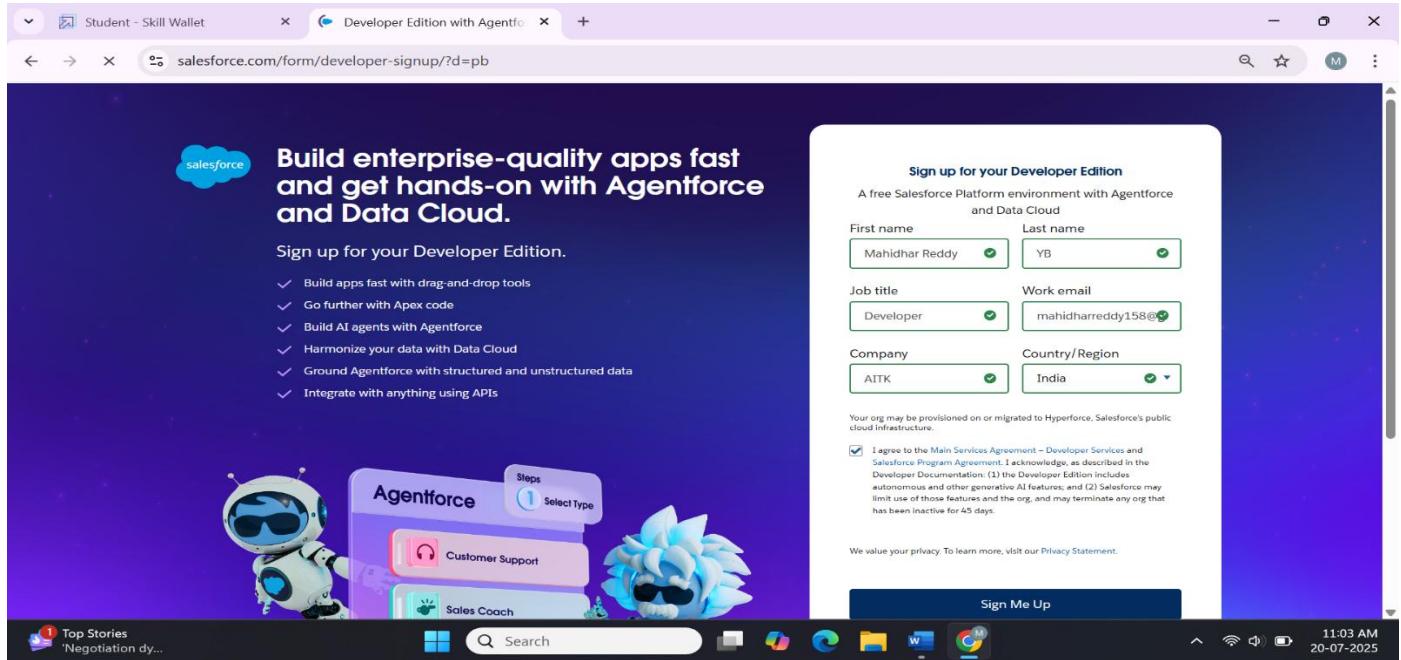
Step1: Creating a developer org in salesforce.

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 :

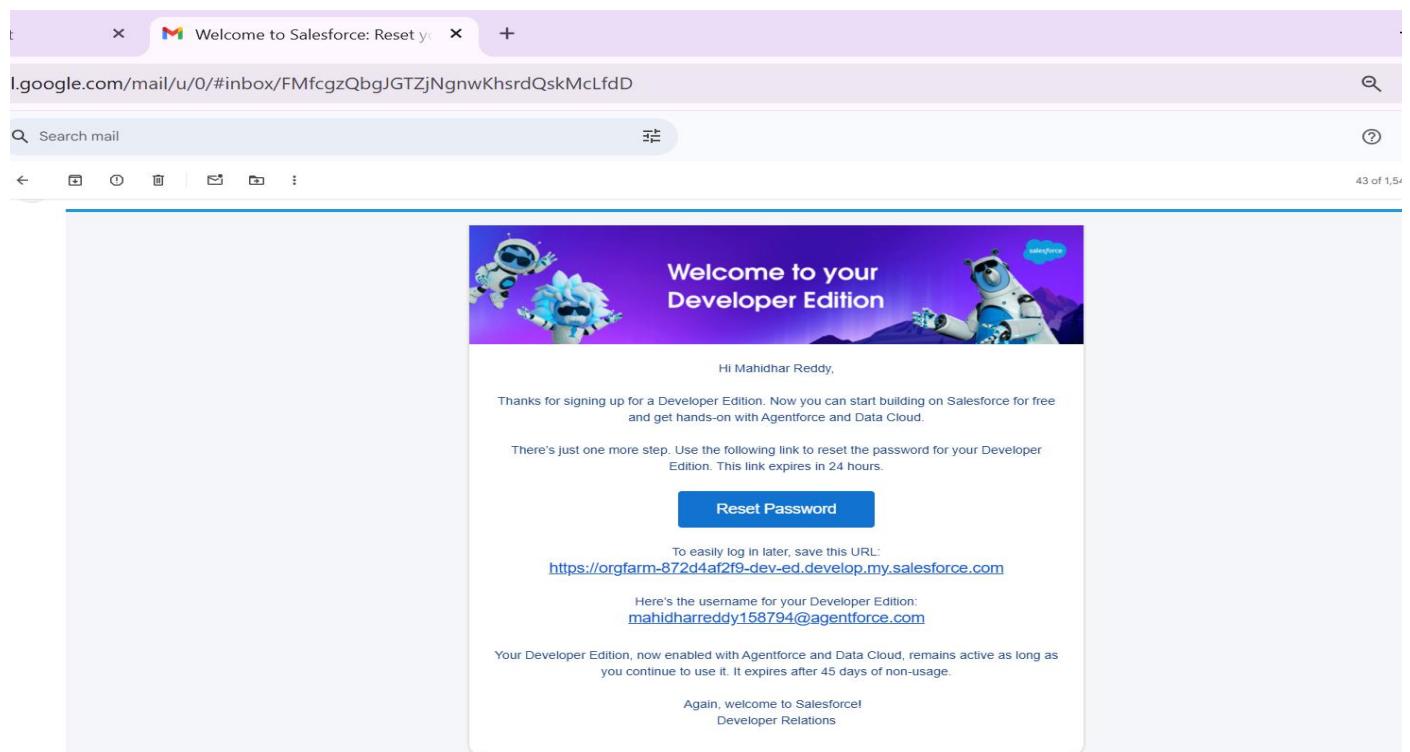
username@organization.com

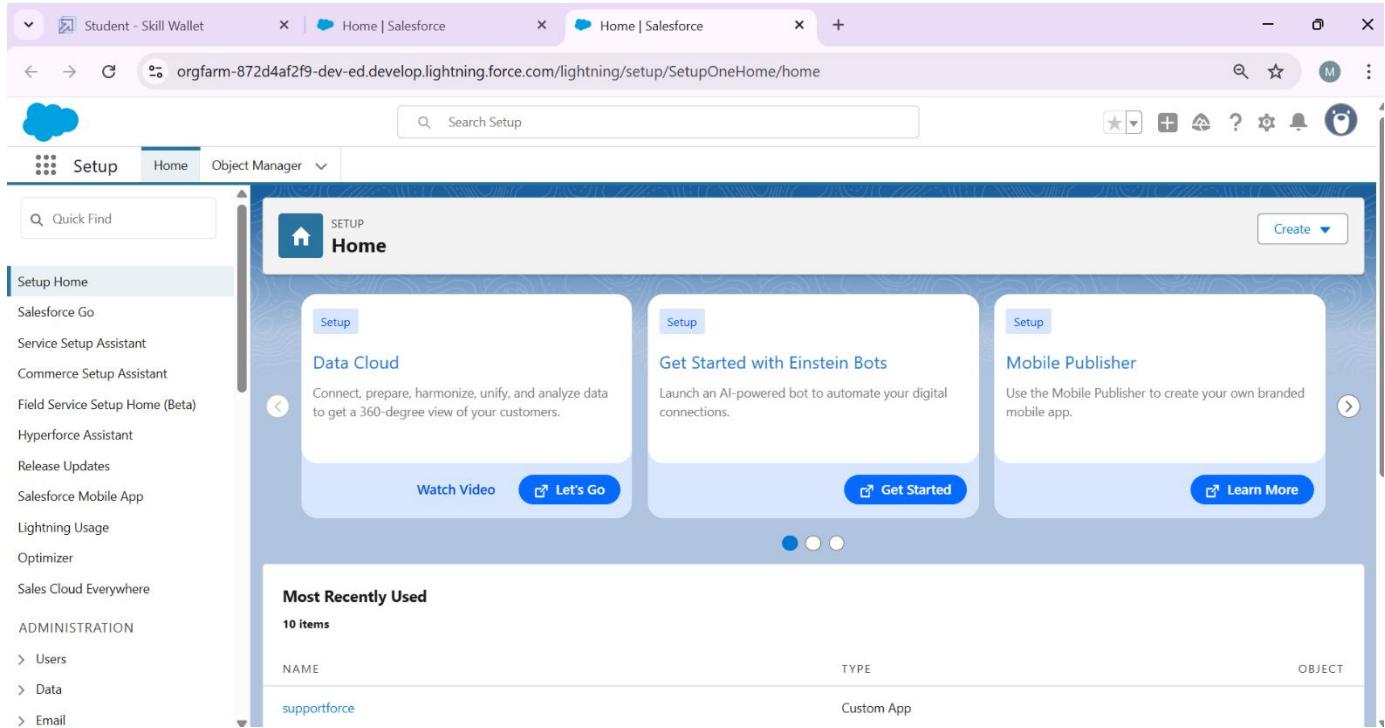
Click on sign me up after filling these.



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.





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 a single item: supportforce (Custom App).

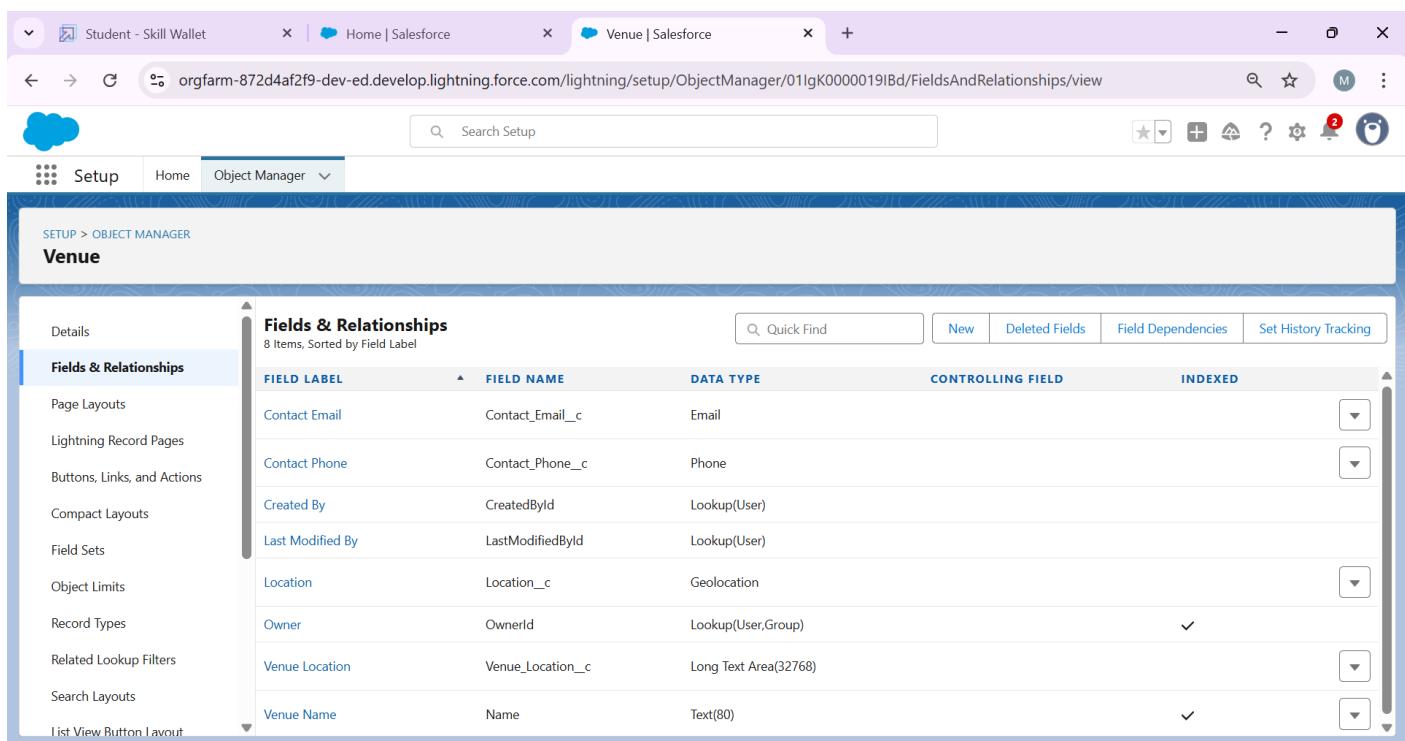
3. Salesforce Key Features:

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.

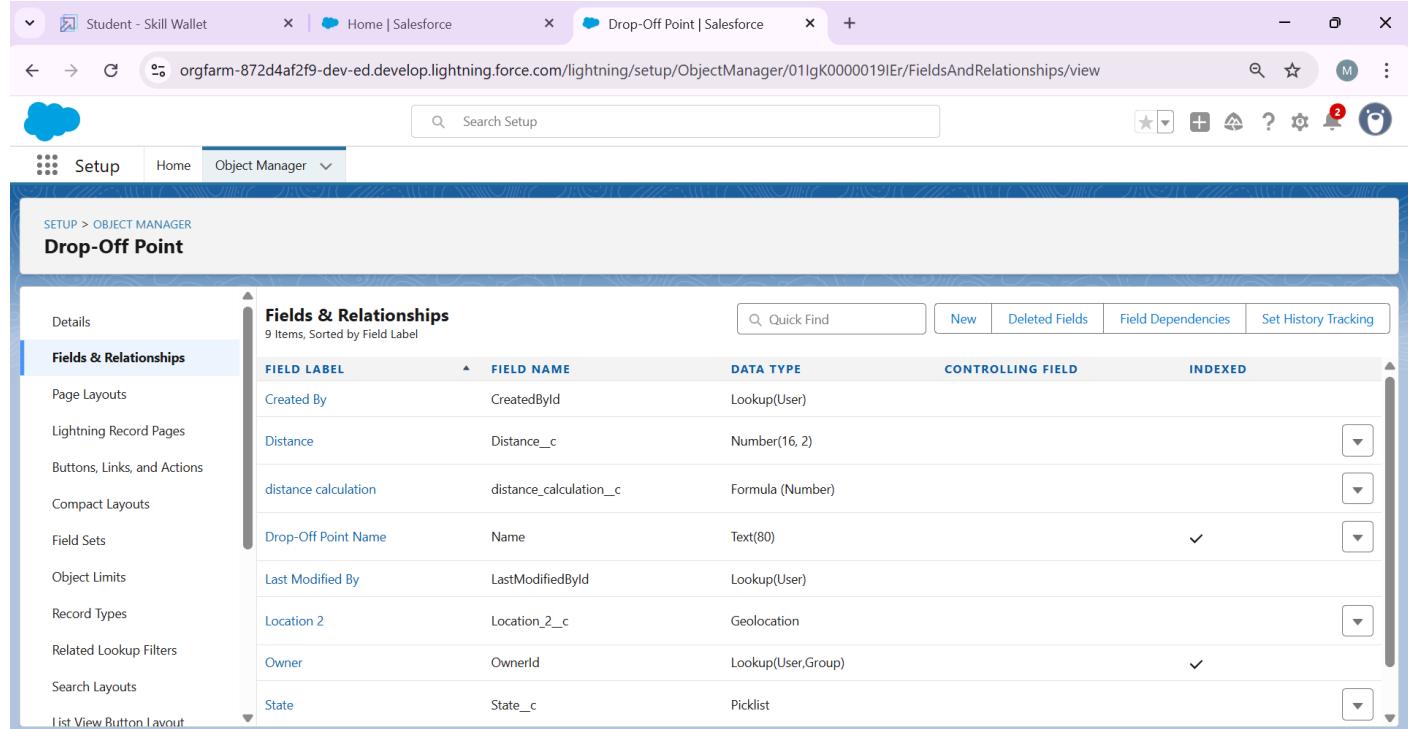


The screenshot shows the Salesforce Object Manager for the 'Venue' object. The left sidebar lists options like Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, and List View Button Layout. The main area is titled 'Fields & Relationships' and displays a table of 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.

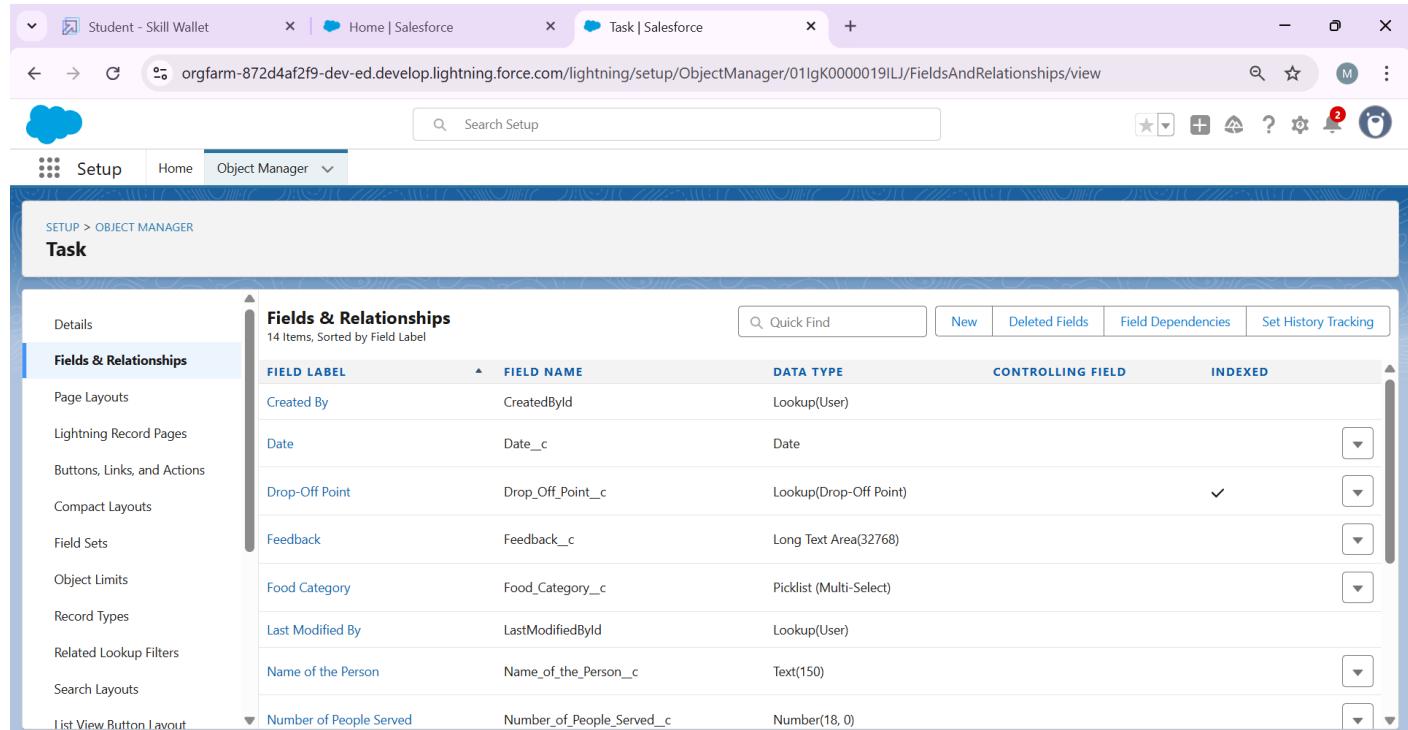


The screenshot shows the Salesforce Object Manager interface for the 'Drop-Off Point' object. The left sidebar lists various setup categories like Page Layouts, Lightning Record Pages, etc. The main area displays the 'Fields & Relationships' section for the 'Drop-Off Point' object. It shows 9 items, sorted by Field Label. The table includes columns for Field Label, Field Name, Data Type, Controlling Field, and Indexed status. Key fields include 'Created By' (CreatedBy), 'Distance' (Distance__c), 'Drop-Off Point Name' (Name), 'Last Modified By' (LastModifiedBy), 'Location 2' (Location_2__c), 'Owner' (OwnerId), and 'State' (State__c).

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedBy	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	LastModifiedBy	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.

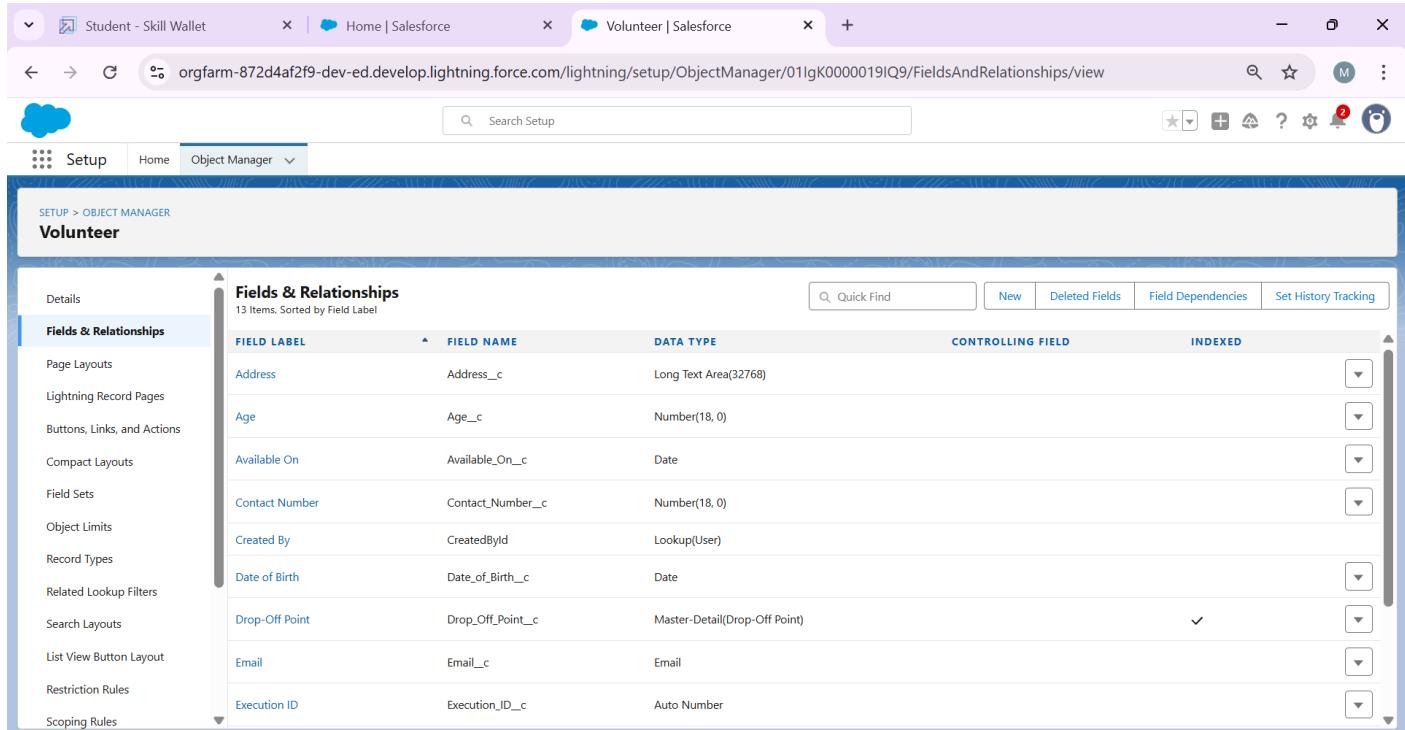


The screenshot shows the Salesforce Object Manager interface for the 'Task' object. The left sidebar lists various setup categories. The main area displays the 'Fields & Relationships' section for the 'Task' object. It shows 14 items, sorted by Field Label. The table includes columns for Field Label, Field Name, Data Type, Controlling Field, and Indexed status. Key fields include 'Created By' (CreatedBy), 'Date' (Date__c), 'Drop-Off Point' (Drop_Off_Point__c), 'Feedback' (Feedback__c), 'Food Category' (Food_Category__c), 'Last Modified By' (LastModifiedBy), 'Name of the Person' (Name_of_the_Person__c), and 'Number of People Served' (Number_of_People_Served__c).

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedBy	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	LastModifiedBy	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.

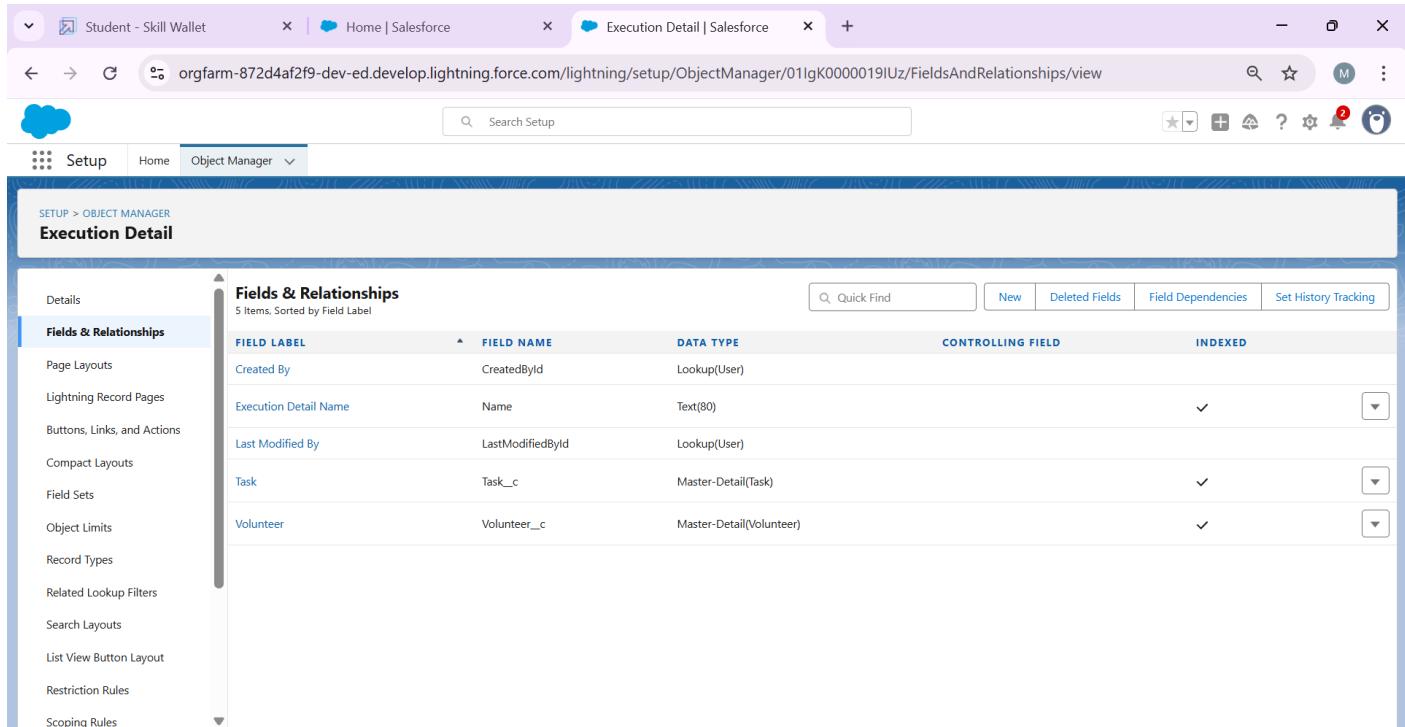


The screenshot shows the Salesforce Object Manager interface for the 'Volunteer' object. The left sidebar lists various setup categories like Details, Fields & Relationships, Page Layouts, etc. The main content area is titled 'Fields & Relationships' and displays 13 items sorted by Field Label. The table columns are FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. Key fields shown include Address, Age, Available On, Contact Number, Created By, Date of Birth, Drop-Off Point, Email, and Execution ID.

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.



The screenshot shows the Salesforce Object Manager interface for the 'Execution Detail' object. The left sidebar lists various setup categories like Details, Fields & Relationships, Page Layouts, etc. The main content area is titled 'Fields & Relationships' and displays 5 items sorted by Field Label. The table columns are FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. Key fields shown include Created By, Execution Detail Name, Last Modified By, Task, and Volunteer.

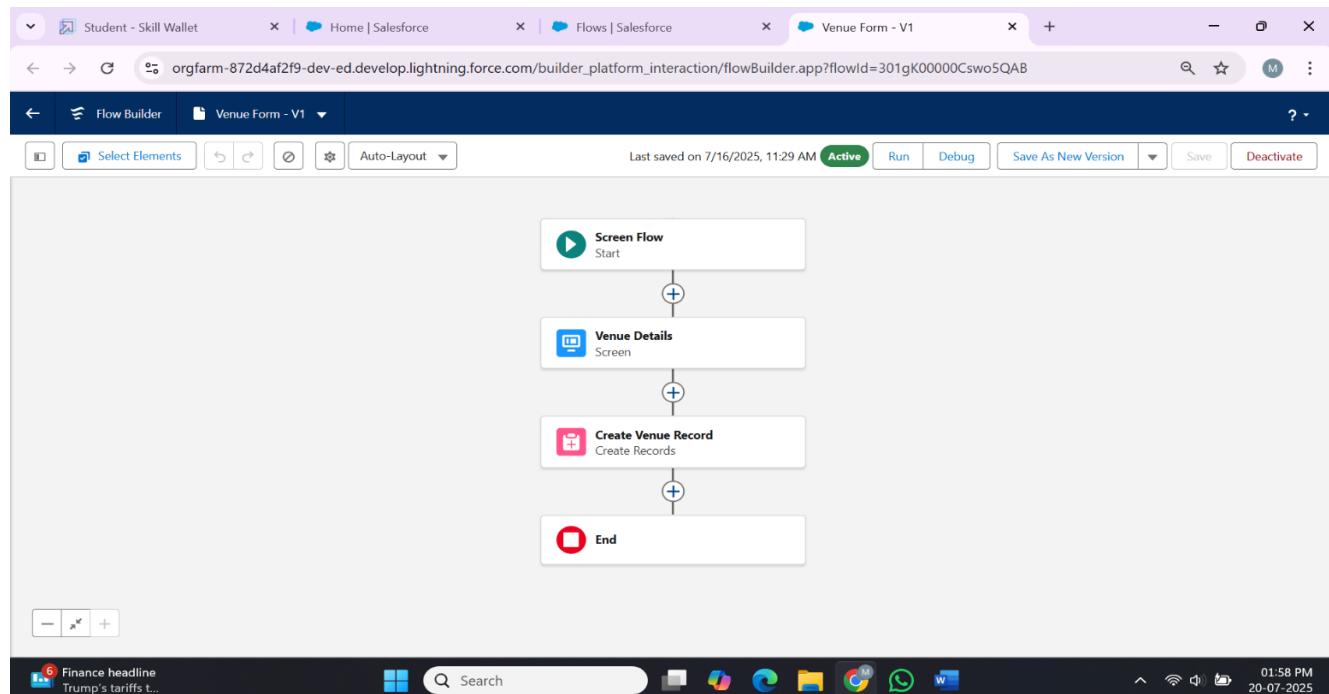
FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedBy	Lookup(User)		
Execution Detail Name	Name	Text(80)		✓
Last Modified By	LastModifiedById	Lookup(User)		
Task	Task_c	Master-Detail(Task)		✓
Volunteer	Volunteer_c	Master-Detail(Volunteer)		✓

Relationships:

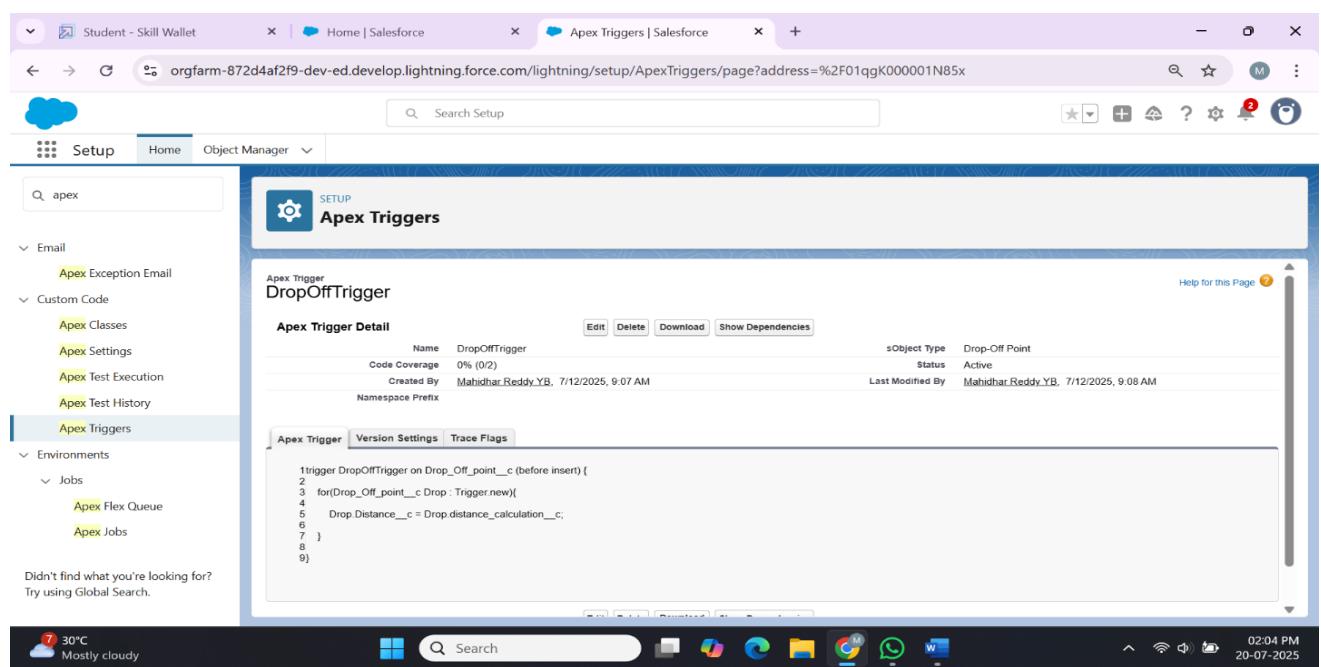
- **Master-detail Relationships:** Create structured connections, such as linking tasks to their execution details, ensuring data consistency and logical organization.
- **Lookup Relationships:** Enable flexible associations, like connecting volunteers to drop-off points, allowing for dynamic task allocation 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 Apex Triggers page. The left sidebar has a search bar and navigation links for Email, Custom Code, Apex Classes, Apex Settings, Apex Test Execution, Apex Test History, and Apex Triggers. The main content area is titled 'Apex Triggers' and shows a specific trigger named 'DropOffTrigger'. The 'Apex Trigger Detail' section displays the trigger's name (DropOffTrigger), code coverage (0%), created by (Mahidhar.Reddy.YB, 7/12/2025, 9:07 AM), and last modified by (Mahidhar.Reddy.YB, 7/12/2025, 9:08 AM). The 'sObject Type' is listed as 'Drop-Off Point'. The 'Apex Trigger' tab is selected, showing the trigger's code:

```

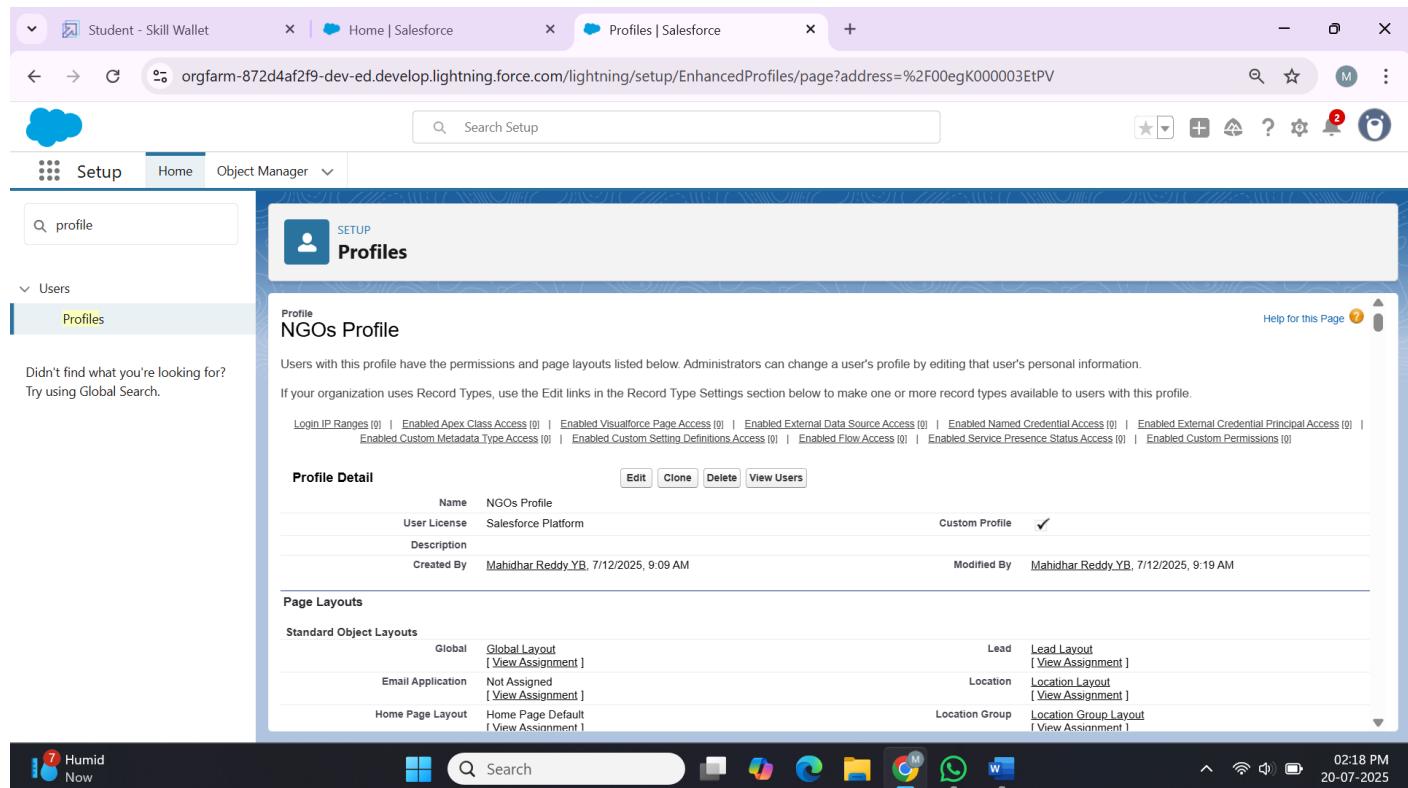
trigger DropOffTrigger on Drop_Off_point__c (before insert) {
    2   for(Drop_Off_point__c Drop : Trigger.new){
    3       Drop.Distance__c = Drop.distance_calculation__c;
    4   }
    5
    6
    7
    8
    9}

```

At the bottom of the page, there is a note: 'Didn't find what you're looking for? Try using Global Search.' The bottom of the screen shows the Windows taskbar with various icons and the date/time (20-07-2025).

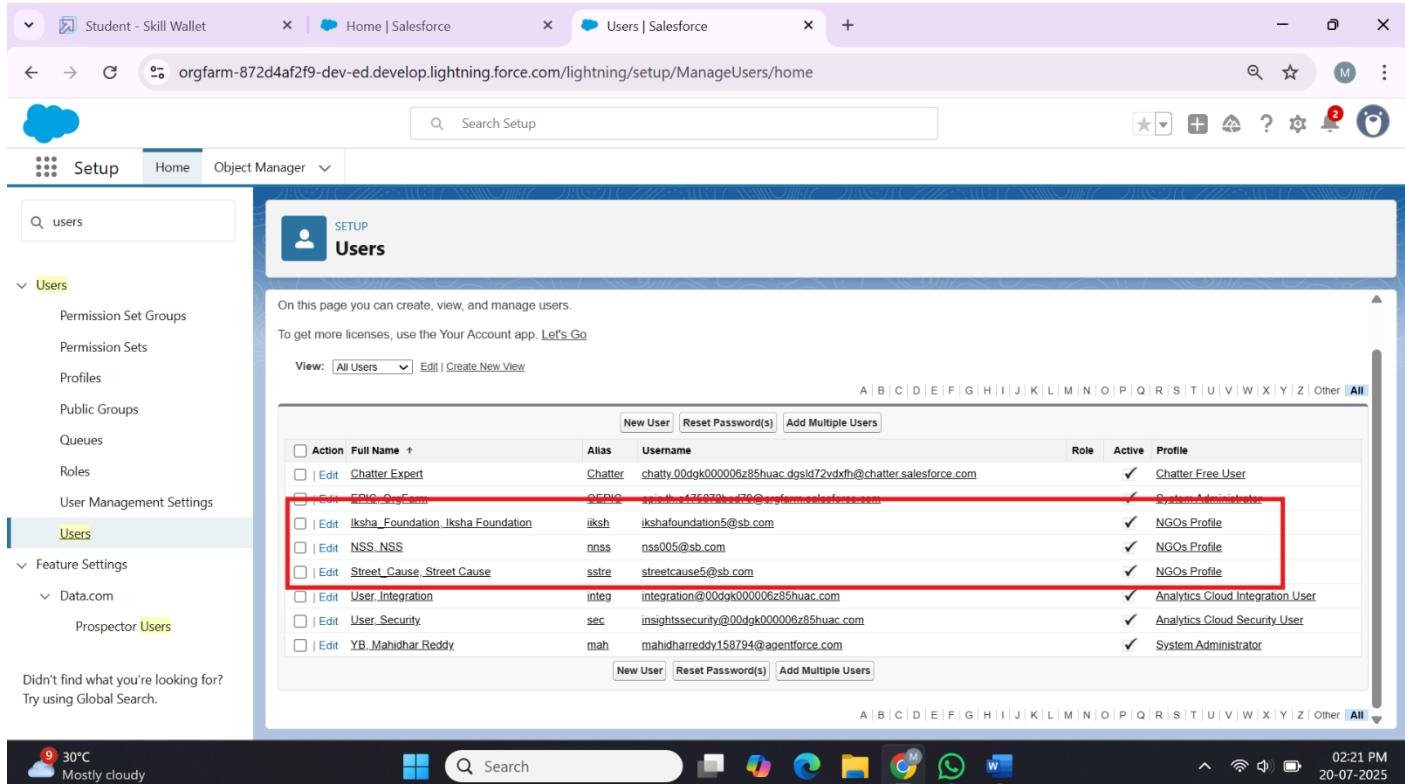
Data Sharing and Security:

- 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 'Profiles' page open. The 'NGOs Profile' is selected. The page displays profile details like Name (NGOs Profile), User License (Salesforce Platform), and various permissions. It also shows standard object layouts for Global, Email Application, and Home Page Layout, and specific layouts for Lead, Location, and Location Group.

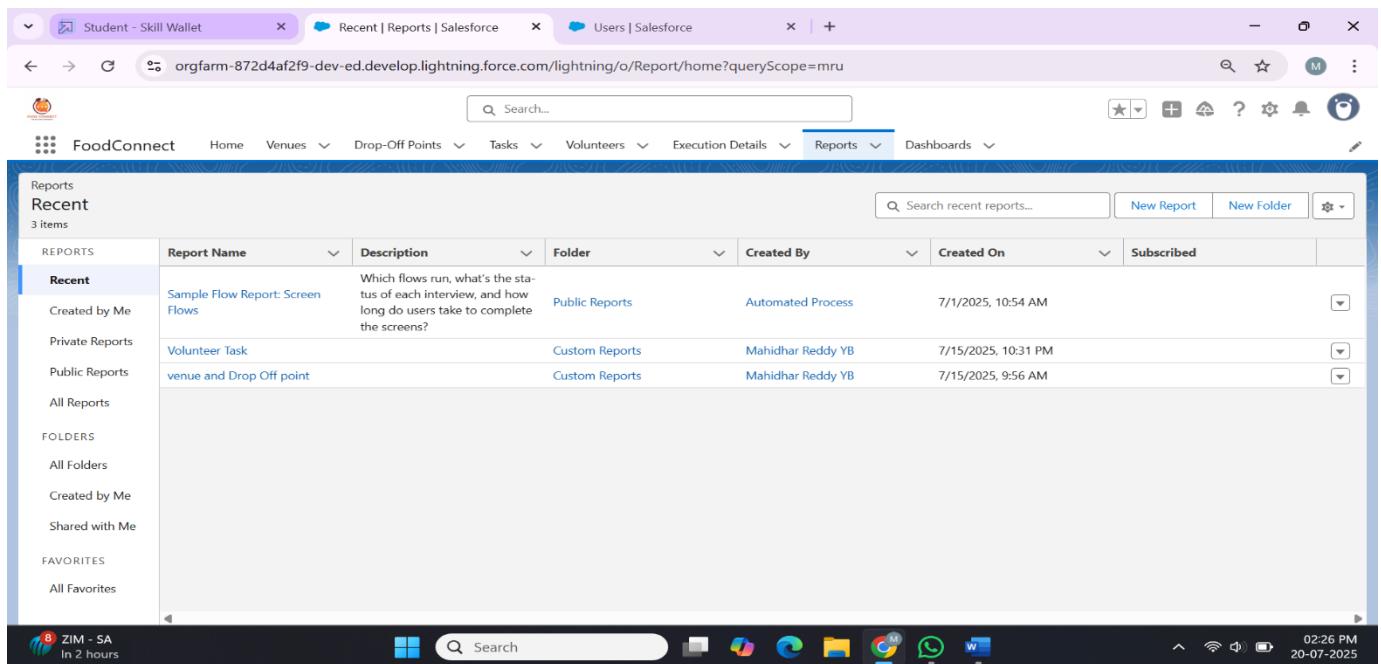
- Users:** Three NGO users — Iksha Foundation, NSS, and Street Cause — were created in the system and assigned the custom NGO Profile. This setup ensures that each organization has secure, role-based access to manage donations, coordinate with volunteers, and track food deliveries within the CRM platform.



The screenshot shows the Salesforce 'Users' page under the 'Setup' tab. A red box highlights four user records: 'Chatter Expert' (Profile: Chatter Free User), 'EDIC_OrgFarm' (Profile: System Administrator), 'Iksha_Foundation_Iksha Foundation' (Profile: NGOs Profile), and 'NSS_NSS' (Profile: NGOs Profile). Other users listed include 'Street_Cause_Street Cause' (Profile: NGOs Profile), 'User_Integration' (Profile: Analytics Cloud Integration User), 'User_Security' (Profile: Analytics Cloud Security User), and 'YB_Mahidhar Reddy' (Profile: System Administrator).

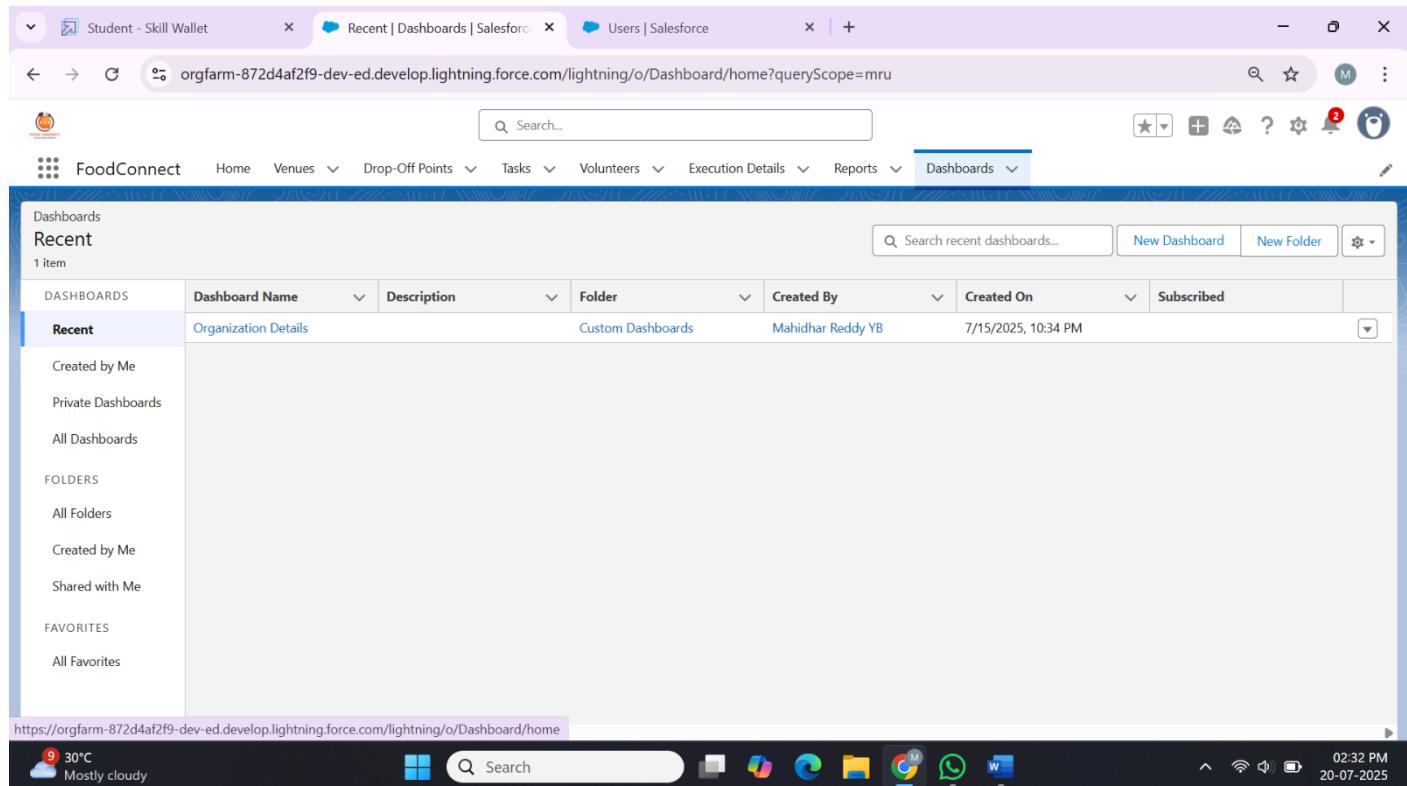
- Reports:** Two custom reports were created to enhance operational tracking and coordination:

1. **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.
2. **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 'Reports' page. A red box highlights the 'Recent' section, which lists three reports: 'Sample Flow Report: Screen Flows' (Created by Me, Public Reports, 7/1/2025, 10:54 AM), 'Volunteer Task' (Private Reports, Custom Reports, Mahidhar Reddy YB, 7/15/2025, 10:31 PM), and 'venue and Drop Off point' (Public Reports, Custom Reports, Mahidhar Reddy YB, 7/15/2025, 9:56 AM).

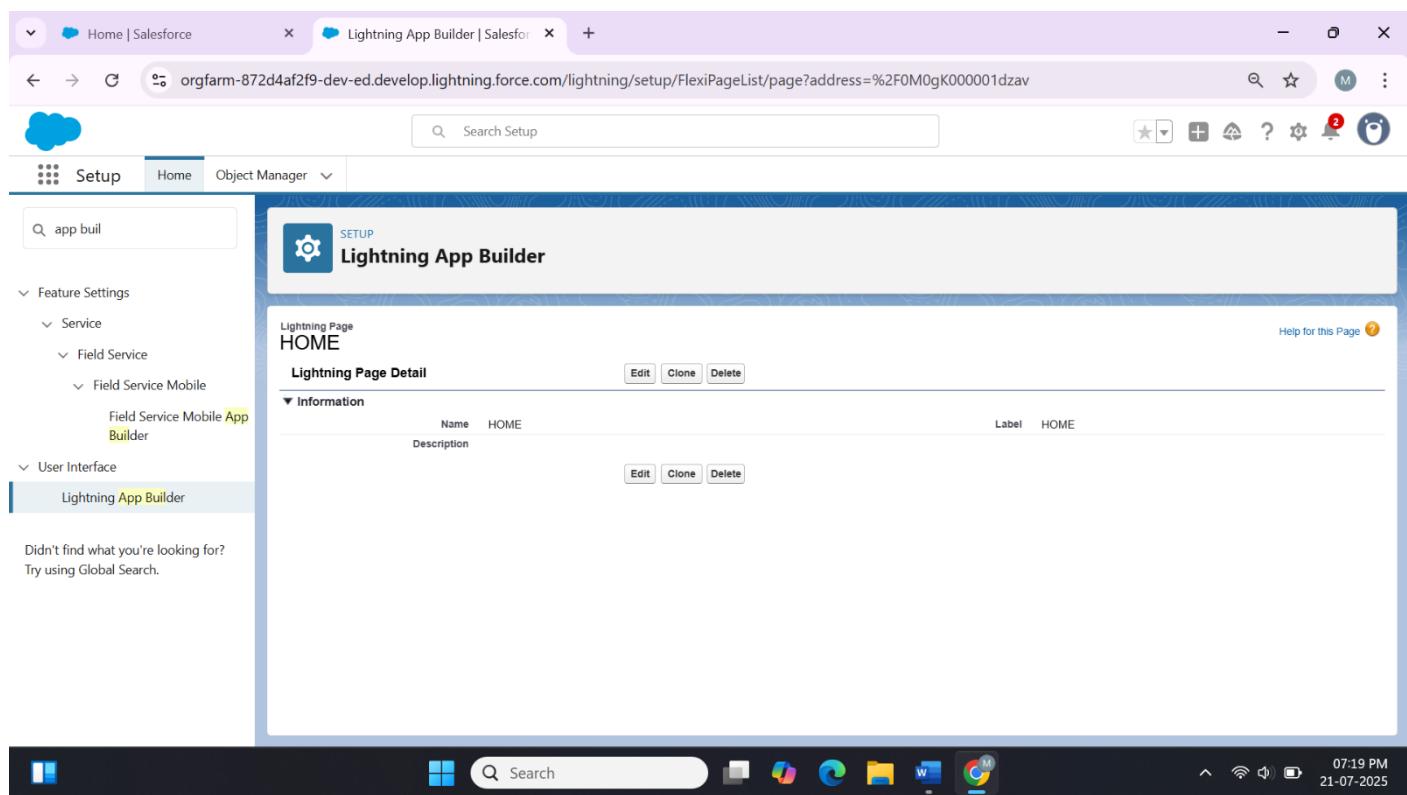
- **Dashboards:** Provide visual representations of key data, empowering stakeholders to make informed decisions and track progress in real-time.



The screenshot shows the Salesforce Dashboards interface. The top navigation bar includes tabs for Student - Skill Wallet, Recent | Dashboards | Salesforce, and Users | Salesforce. The main content area is titled 'Dashboards' and 'Recent'. It displays a table with one item: 'Organization Details' from the 'Custom Dashboards' folder, created by Mahidhar Reddy YB on 7/15/2025, 10:34 PM. The sidebar on the left provides links 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 https://orgfarm-872d4af2f9-dev-ed.develop.lightning.force.com/lightning/o/Dashboard/home, the Windows taskbar, and the date/time 20-07-2025 02:32 PM.

User Experience:

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



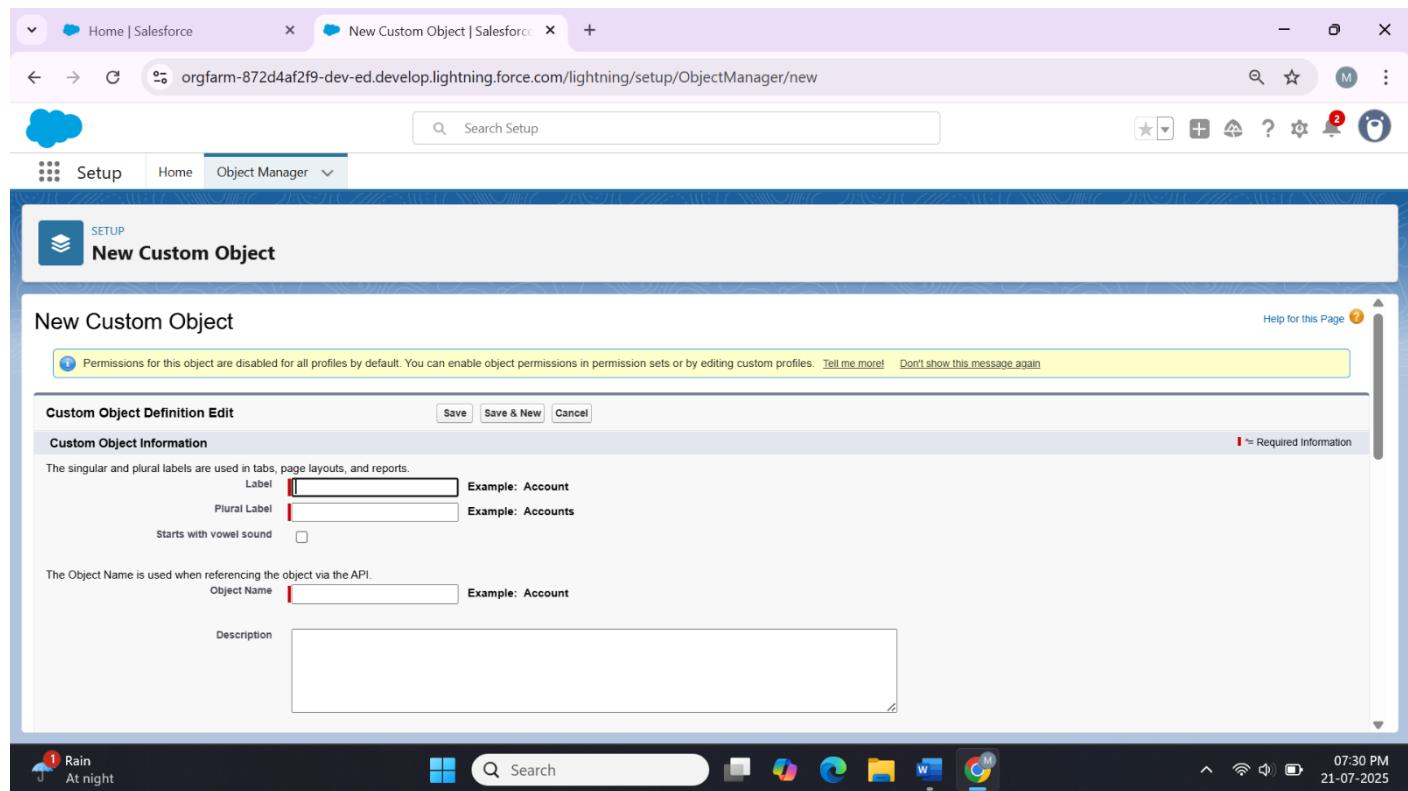
The screenshot shows the Salesforce Lightning App Builder interface. The top navigation bar includes tabs for Home | Salesforce and Lightning App Builder | Salesforce. The main content area is titled 'Lightning App Builder' and shows a 'Lightning Page Detail' for 'HOME'. The page has fields for Name (HOME), Label (HOME), and Description. The sidebar on the left shows the 'Setup' tab selected, with sections for Feature Settings (Service, Field Service, Field Service Mobile) and User Interface (Lightning App Builder). A search bar at the top left shows 'app build'. The bottom status bar shows the URL https://orgfarm-872d4af2f9-dev-ed.develop.lightning.force.com/lightning/setup/FlexiPageList/page?address=%2F0M0gK000001dav, the Windows taskbar, and the date/time 21-07-2025 07:19 PM.

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: 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 for creating a new custom object. The title bar reads "Home | Salesforce" and "New Custom Object | Salesforce". The URL in the address bar is "orgfarm-872d4af2f9-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/new". The main content area is titled "New Custom Object" and contains a "Custom Object Definition Edit" form. The "Custom Object Information" section includes fields for "Label" (set to "Account"), "Plural Label" (set to "Accounts"), and a checkbox for "Starts with vowel sound" which is unchecked. Below this, the "Object Name" field is set to "Account". There is also a "Description" field with a large text input area. At the top of the form are "Save", "Save & New", and "Cancel" buttons. A note at the top of the page states: "Permissions for this object are disabled for all profiles by default. You can enable object permissions in permission sets or by editing custom profiles." Buttons for "Tell me more" and "Don't show this message again" are also present. The bottom of the screen shows the Windows taskbar with icons for Rain (At night), Search, File Explorer, Task View, and Google Chrome, along with system status icons like battery level and signal strength. The date and time are shown as "07:30 PM 21-10-2025".

Step 2: 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 open. The top navigation bar includes 'Home | Salesforce', 'Tabs | Salesforce', and a search bar. The left sidebar has 'User Interface' expanded, with 'Tabs' selected. The main content area is titled 'Custom Tabs' and contains a section for 'Custom Object Tabs' and 'Web Tabs'. The 'Custom Object Tabs' section lists tabs like 'Drop-Off Points', 'Execution Details', 'Tasks', 'Venues', and 'Volunteers', each with an 'Edit | Del' button and a 'Label'. To the right, there are 'Tab Style' options (Motorcycle, Pencil, Computer, Building, Heart) and a 'Description' field. Below this is a 'Web Tabs' section with a 'New' button and a note about 'Misc Tabs'.

Step 3: Lightning App

- Developed a lightning app named “FoodConnect” 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.

The screenshot shows the Lightning App Builder interface with a dashboard component open. The top navigation bar includes 'Home | Salesforce', 'HOME - Lightning App Builder', and a search bar. The left sidebar has 'Components' expanded, showing various standard components like Accordion, App Launcher, Assistant, etc. The main content area displays a dashboard with sections for 'Organization Details', 'Drop-Off Point', 'Volunteer Task', and a placeholder 'Flow Component: Venue Form'. On the right, the 'Page > Dashboard' panel shows the component's configuration with fields for 'Max Height' and 'Hide on Error'. At the bottom, there are links for 'Get more on the AppExchange' and a notification for 'Finance headline India reported 1....'.

Step 4: Relationships

- Defined relationships between objects using master-detailed and lookup fields. For example:

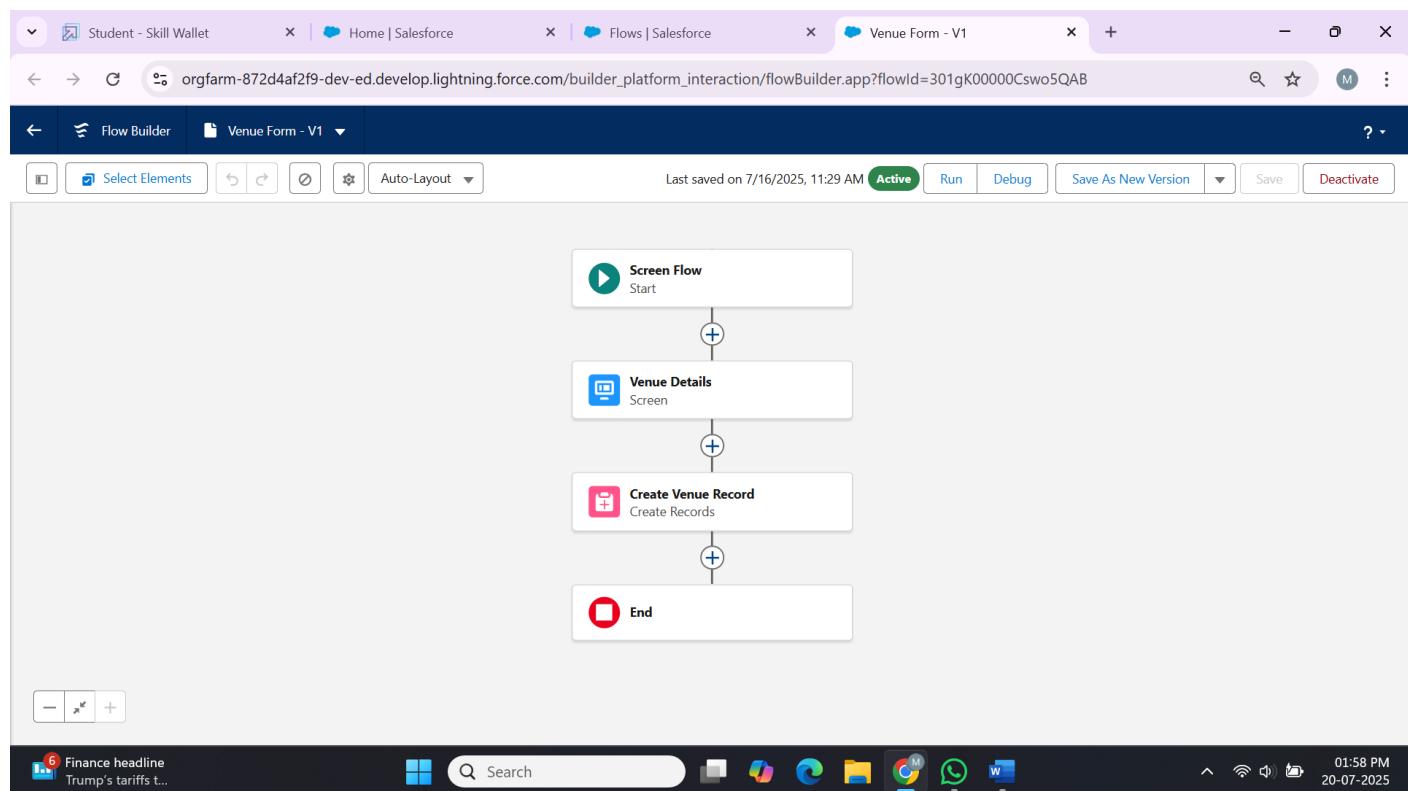
- Master-Detail between Tasks and Execution Details to track completed activities.
- Lookup between Volunteers and Drop-Off Points to assign tasks efficiently.

Step 5: 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.,

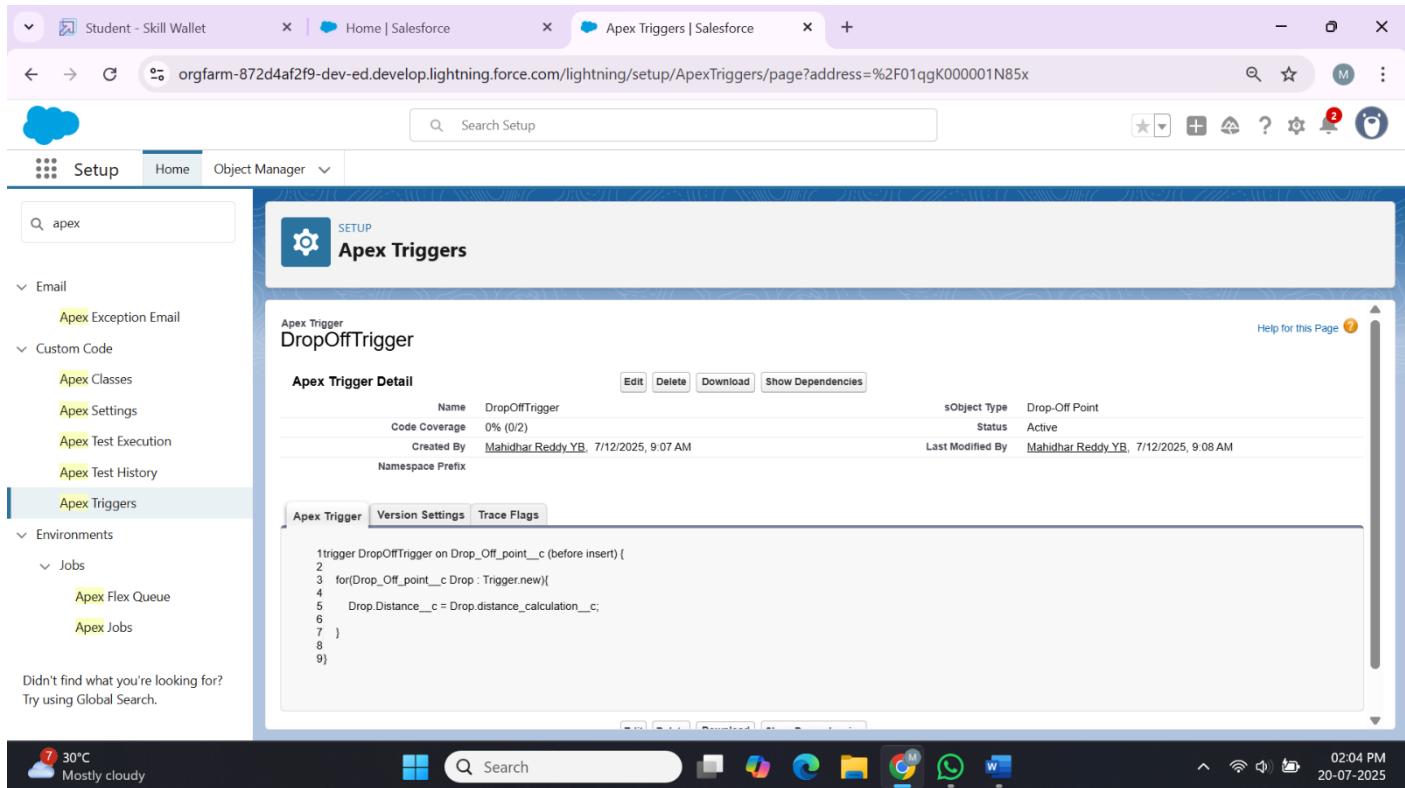
Step 6: Flow

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



Step 7: 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 interface with the search bar set to "apex". The left sidebar has sections for Email, Custom Code, Environments, and Apex Triggers, with "Apex Triggers" currently selected. The main content area displays the "Apex Trigger Detail" for "DropOffTrigger". The trigger code is:

```

1trigger DropOffTrigger on Drop_Off_point__c (before insert) {
2    for(Drop_Off_point__c Drop : Trigger.new){
3        Drop.Distance__c = Drop.distance_calculation__c;
4    }
5}

```

Step 8: 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 9: 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

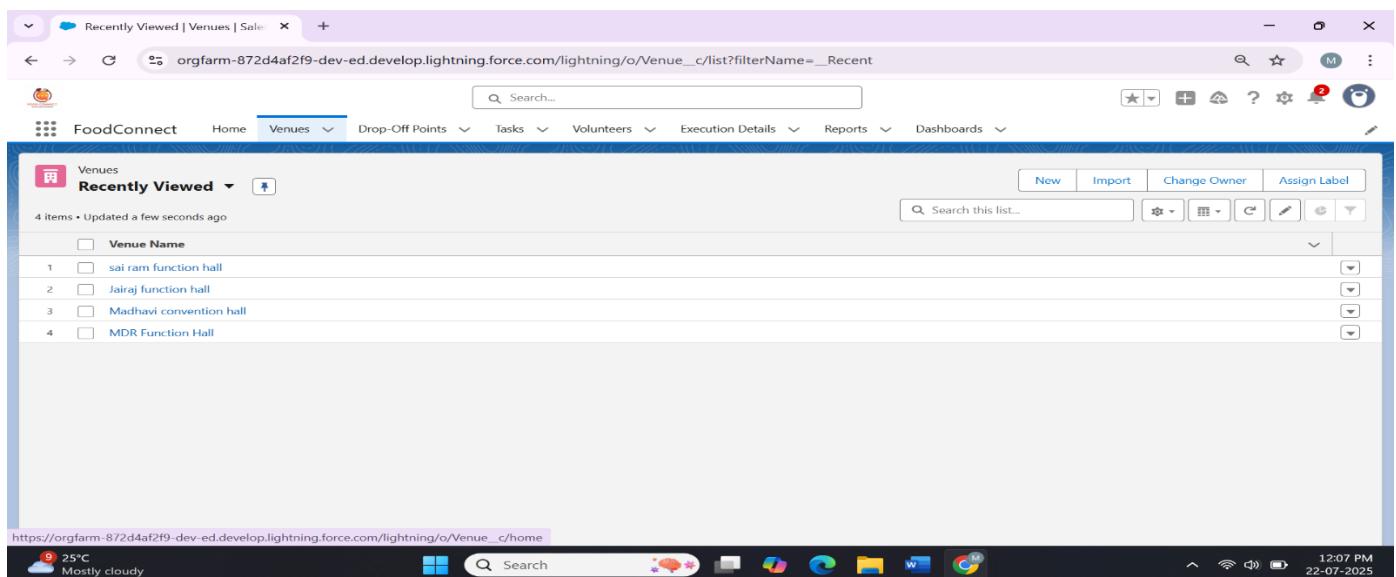
To ensure the FoodConnect solution functions seamlessly and meets all project requirements, a thorough testing and validation process was implemented. This approach focused on verifying both the technical and user-facing aspects of the system.

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.

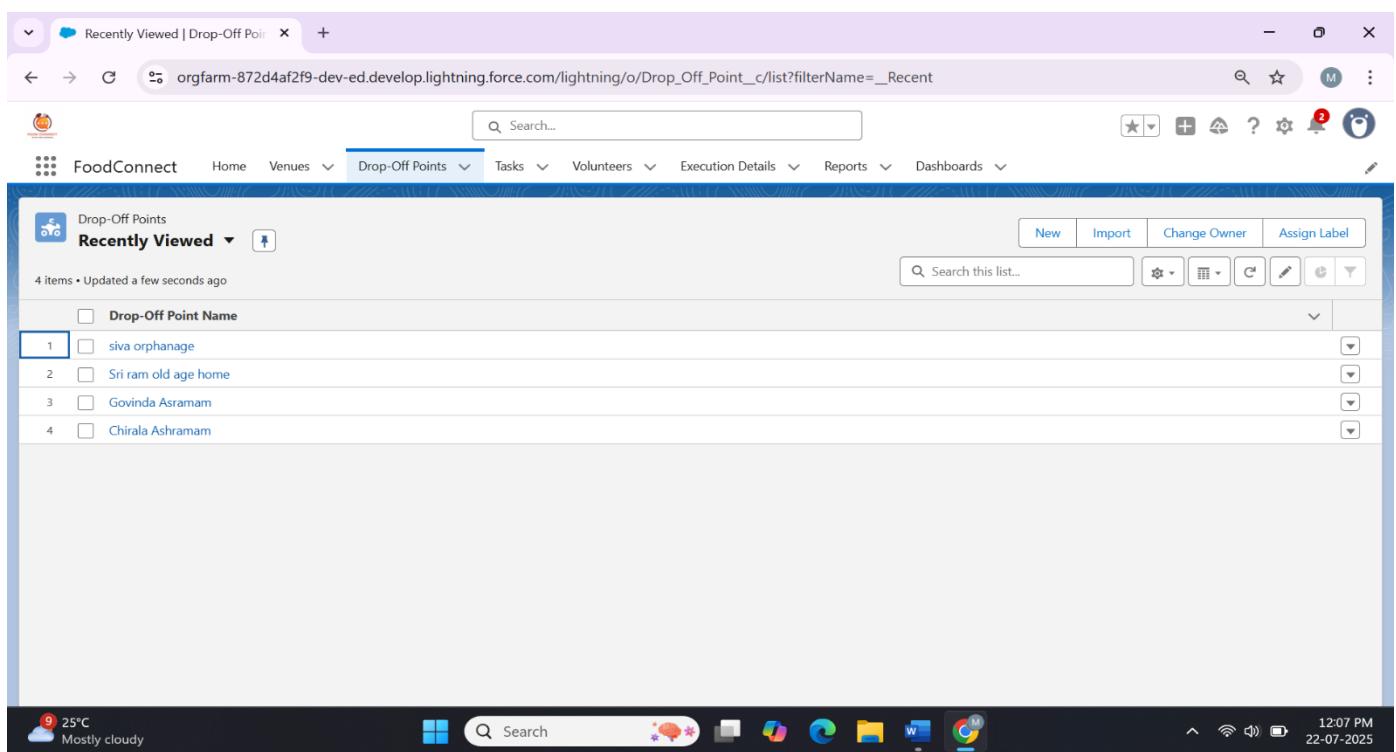


Venues
Recently Viewed

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

Fig: Venue Records

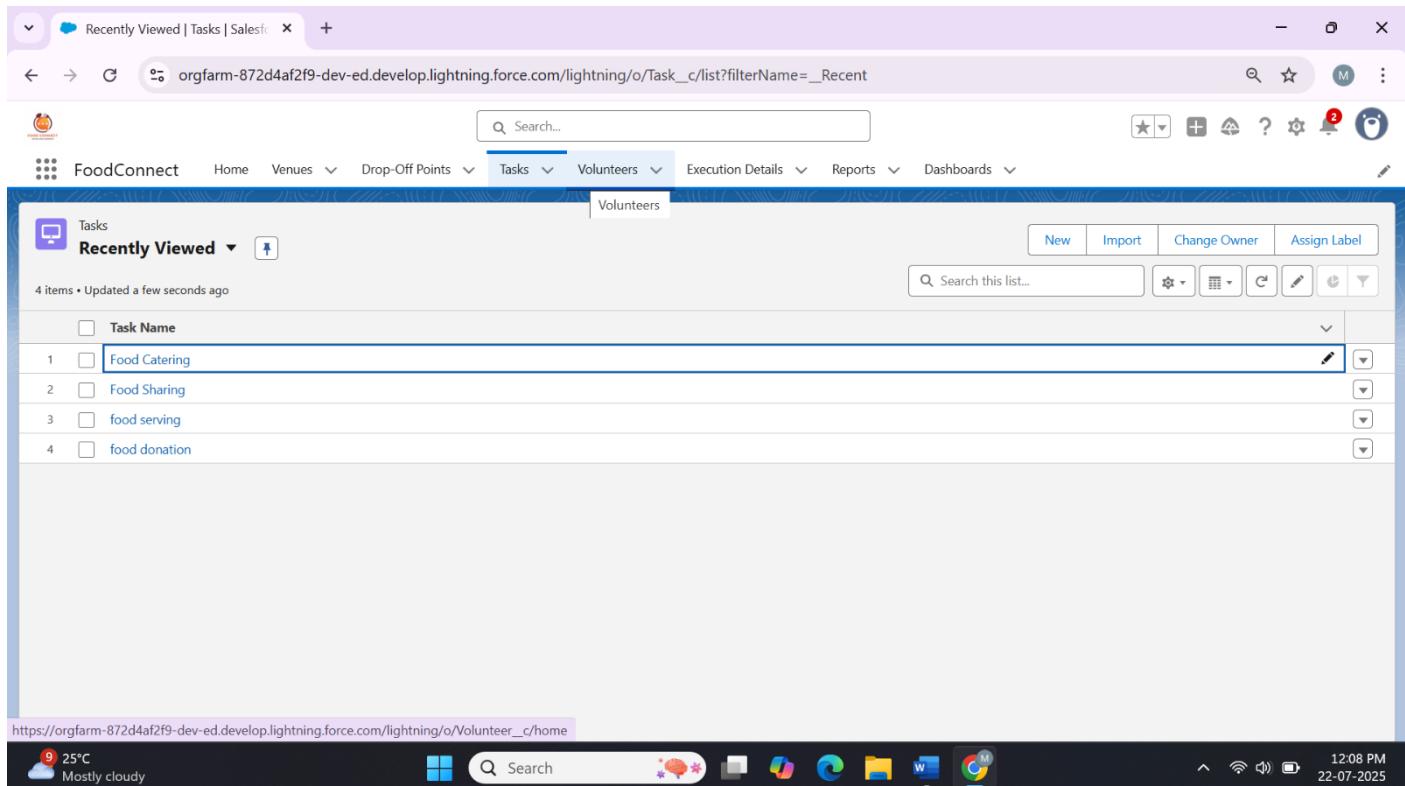


Drop-Off Points
Recently Viewed

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

Fig : Drop-off Points records

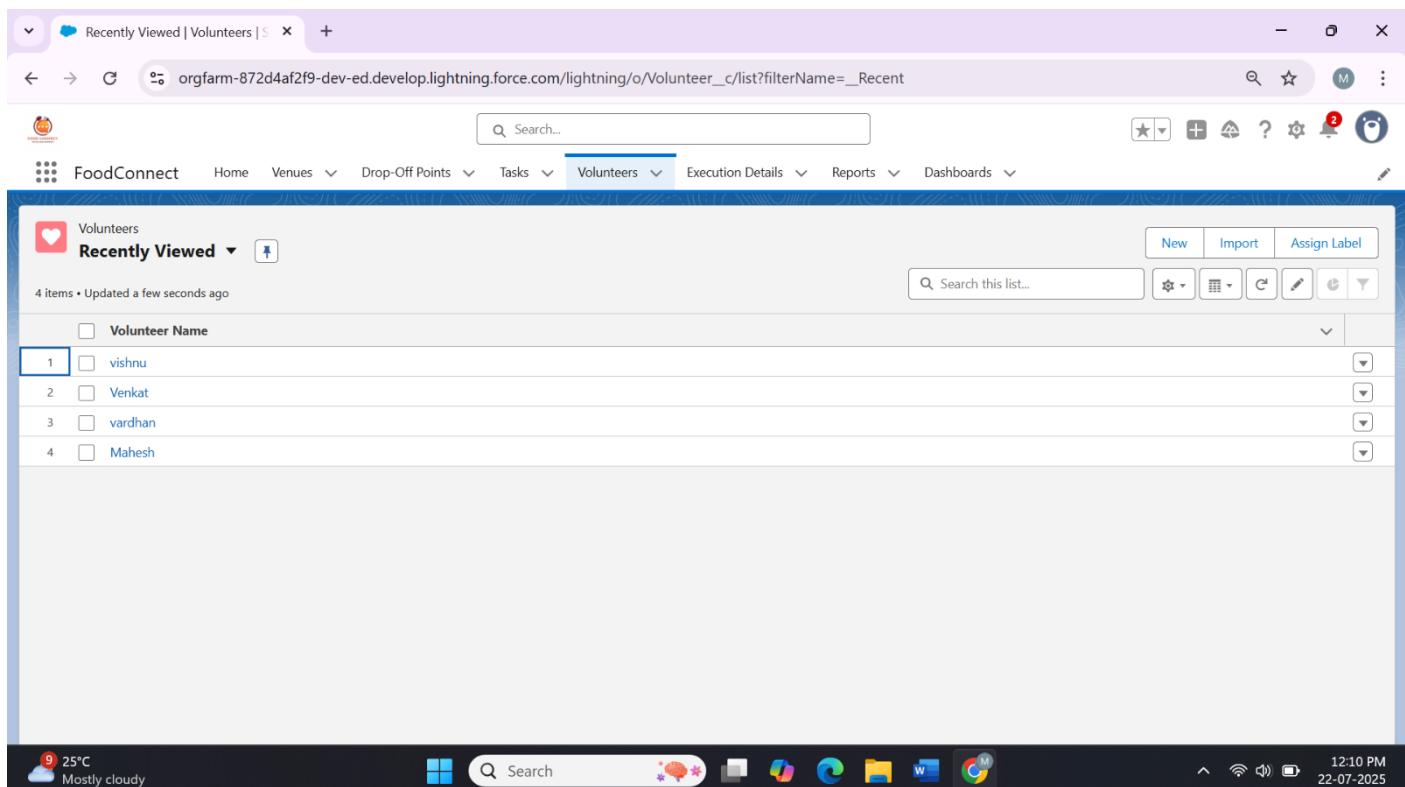


The screenshot shows the Salesforce Lightning interface for the 'Tasks' module. The top navigation bar includes links for Home, Venues, Drop-Off Points, Tasks, Volunteers, Execution Details, Reports, and Dashboards. A search bar and various action buttons (New, Import, Change Owner, Assign Label) are also present. The main content area displays a list of recently viewed tasks, each with a checkbox and a link to its details. The tasks listed are:

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

The URL in the browser is https://orgfarm-872d4af2f9-dev-ed.develop.lightning.force.com/lightning/o/Task_c/list?filterName=_Recent. The system status bar at the bottom shows the date and time as 22-07-2025 12:08 PM.

Fig: Tasks records



The screenshot shows the Salesforce Lightning interface for the 'Volunteers' module. The top navigation bar includes links for Home, Venues, Drop-Off Points, Tasks, Volunteers, Execution Details, Reports, and Dashboards. A search bar and various action buttons (New, Import, Assign Label) are also present. The main content area displays a list of recently viewed volunteers, each with a checkbox and a link to their details. The volunteers listed are:

Rank	Volunteer Name
1	vishnu
2	Venkat
3	vardhan
4	Mahesh

The URL in the browser is https://orgfarm-872d4af2f9-dev-ed.develop.lightning.force.com/lightning/o/Volunteer_c/list?filterName=_Recent. The system status bar at the bottom shows the date and time as 22-07-2025 12:10 PM.

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	

25°C Mostly cloudy 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						

25°C Mostly cloudy Search

12:08 PM 22-07-2025

Fig: Reports

Recent | Dashboards | Salesforce

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

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

Search...

★ + ? ⚙️ 📡

Dashboards

Recent 1 item

DASHBOARDS	Dashboard Name	Description	Folder	Created By	Created On	Subscribed
Recent	Organization Details		Custom Dashboards	Mahidhar Reddy YB	7/15/2025, 10:34 PM	

Created by Me
Private Dashboards
All Dashboards

FOLDERS
All Folders
Created by Me
Shared with Me

FAVORITES
All Favorites

25°C Mostly cloudy  Search       12:08 PM 22-07-2025

Fig: Dashboards

Home | Salesforce

orgfarm-872d4af2f9-dev-ed.develop.lightning.force.com/lightning/page/home

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

Search...

Organization Details
As of Jul 21, 2025, 11:35 PM  Viewing as Mahidhar Reddy YB

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

Volunteer Task

Record Count

1 1 1 1

Volunteer ID

View Report (Volunteer Task) As of Jul 21, 2025, 11:35 PM

Venue Form

Venue Name
Email you@example.com
Phone
Venue Location
Latitude
Longitude
Next

25°C Mostly cloudy  Search       12:04 PM 22-07-2025

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

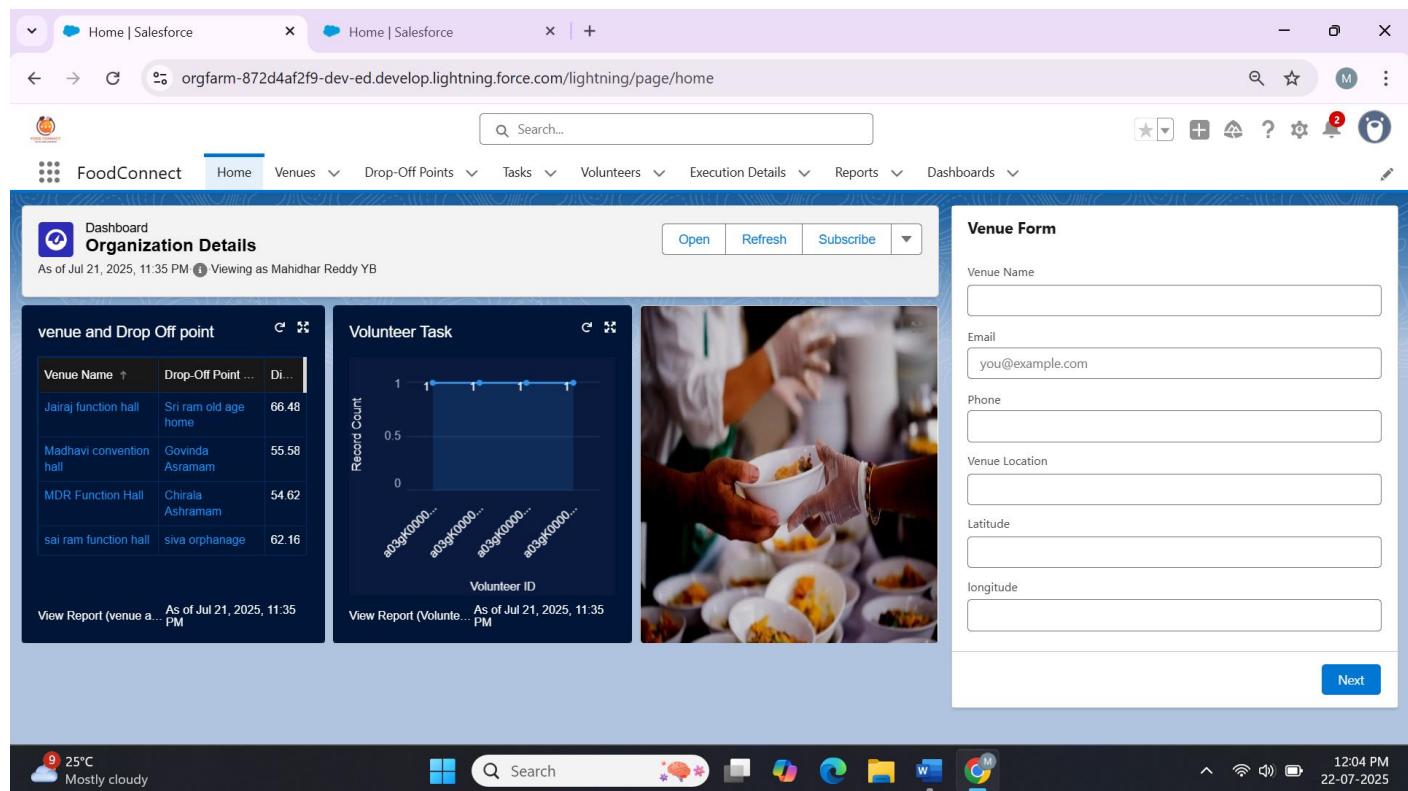
- **Scenario:** Different stakeholders require access to specific information based on their roles.
- **Salesforce Solution:** Profiles, sharing rules, and public groups ensure that users only access data relevant to their roles, maintaining security and confidentiality.

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.



The screenshot shows the Home Page of the FoodConnect application built on the Salesforce platform. The top navigation bar includes links for Home, Venues, Drop-Off Points, Tasks, Volunteers, Execution Details, Reports, and Dashboards. The main content area features a "Dashboard Organization Details" section showing the date (As of Jul 21, 2025, 11:35 PM) and the user viewing it (Mahidhar Reddy YB). Below this are two cards: "venue and Drop Off point" and "Volunteer Task". The "venue and Drop Off point" card displays a table with four rows of data:

Venue Name	Drop-Off Point	Distance
Jairaj function hall	Sri ram old age home	66.48
Madhavi convention hall	Govinda Asramam	55.58
MDR Function Hall	Chirala Asramam	54.62

The "Volunteer Task" card shows a chart titled "Record Count" with four data points corresponding to the rows in the table above. To the right of the cards is a "Venue Form" sidebar with fields for Venue Name, Email, Phone, Venue Location, Latitude, and Longitude, each with a placeholder value. At the bottom of the page, there's a weather widget (25°C, Mostly cloudy), a navigation bar with icons for search, home, and other apps, and a footer showing the date and time (22-07-2025, 12:04 PM).

Fig: Home Page of FoodConnect