

Food Connect CRM

Subtitle: Supplying Leftover Food to the Poor through Salesforce CRM

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1.Project Overview

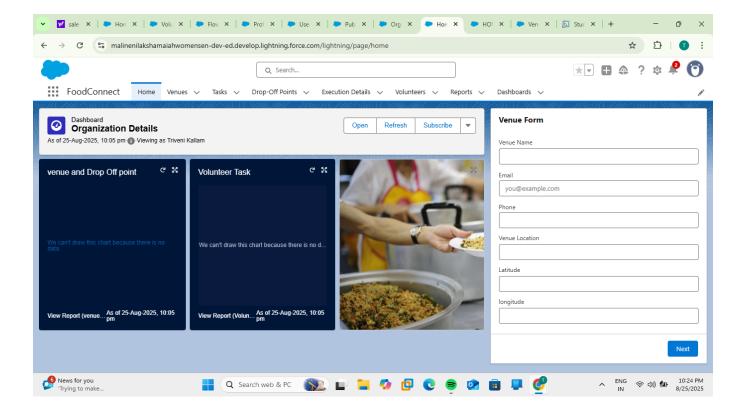
FoodConnect CRM is a cloud-based Customer Relationship Management (CRM) solution built on Salesforce, designed specifically for managing food donation and distribution. The system acts as a bridge between NGOs, volunteers, donors, and distribution venues, ensuring that surplus food is collected, stored, and delivered to those in need in a systematic and transparent way.

Traditionally, managing food donations has been a manual and disorganized process. Donors may not know where to send surplus food, NGOs may struggle to allocate volunteers, and there is often little to no visibility on how much food has been distributed. FoodConnect CRM eliminates these inefficiencies by providing a **centralized, automated, and transparent platform**.

Key business needs addressed by FoodConnect CRM:

- Surplus food donation tracking from different venues.
- Drop-off point management where donated food is stored temporarily.
- Volunteer coordination and task assignment.
- Capturing execution details such as date, time, and location of food delivery.
- Monitoring NGO participation and impact.

The core functionality is powered by Salesforce features such as **Custom Objects** (Venue, Drop-Off Point, Task, Volunteer, Execution Details), Automation (Flows, Validation Rules, Triggers), and Reporting Tools (Reports and Dashboards).



2.Objectives

The primary objective of FoodConnect CRM is to create a **digitized platform for food donation management** that enhances efficiency, transparency, and collaboration among all stakeholders.

Detailed objectives include:

1. Automate food donation management

- Reduce manual record-keeping.
- Automatically assign tasks and calculate logistics (like distance between venues and drop-off points).

2. Enable effective collaboration between NGOs and volunteers

- NGOs can create drop-off points and tasks.
- Volunteers can view their assigned responsibilities and update execution

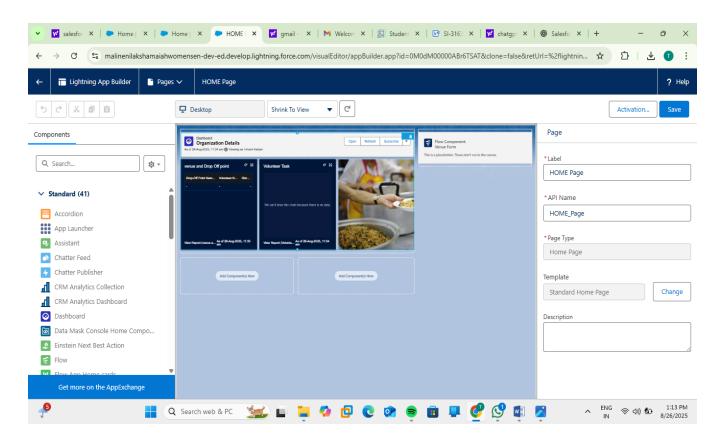
details.

3. Provide transparency with reports and dashboards

- Custom reports for tracking donations, volunteer contributions, and NGO performance.
- Dashboards offering real-time insights into ongoing activities.

4. Improve decision-making through data analytics

- Identify areas with recurring food shortages.
- Optimize volunteer distribution.
- Plan for future donation drives with predictive insights.



3. Requirement Analysis & Planning

3.1 Business Requirements

- Capture details of food surplus from various venues (restaurants, event halls, etc.).
- Create **drop-off points** where food can be collected and stored.
- Allocate **volunteers** for pickup, storage, and delivery tasks.

 Record execution details like completion time, delivery address, and associated NGO.

3.2 Project Scope

The FoodConnect CRM project includes the full lifecycle of food donation management, from donation request creation to volunteer assignment, tracking execution, and generating reports for performance analysis.

3.3 Data Model

The data model was designed with five major objects:

- Venue Source of food donations.
- **Drop-Off Point** Intermediate collection point.
- Task Activity assigned to volunteers.
- Volunteer Individual handling logistics.
- **Execution Details** Record of completed activities.

These objects are linked using **lookup and master-detail relationships**, ensuring data consistency.

3.4 Security Model

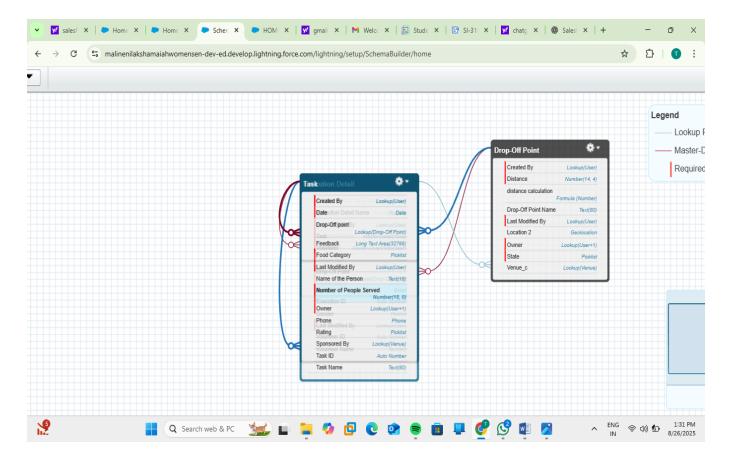
- **Profiles & Roles** Admin, NGO, Volunteer.
- Sharing Rules Access controlled based on NGO and location.
- Public Groups To allow collaboration between NGOs.

3.5 Stakeholders

- NGOs (Iksha Foundation, NSS, Street Cause).
- Volunteers.
- Administrators overseeing the process.

3.6 Roadmap

Requirement Gathering → Development → Testing → Deployment → Maintenance.



4. Salesforce Development - Backend & Configurations

In this phase, the core system was developed in Salesforce.

4.1 Environment Setup

- Salesforce Developer Org was provisioned.
- FoodConnect CRM app was created as a Lightning App.

4.2 Custom Objects

- 1. Venue
- 2. Drop-Off Point
- 3. Task
- 4. Volunteer
- 5. Execution Details

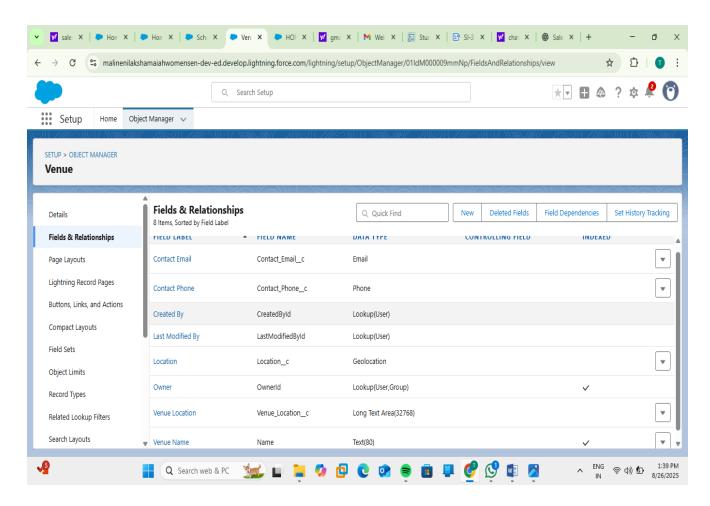
4.3 Fields & Relationships

- Lookup Relationships (Volunteer ↔ Task).
- Master-Detail Relationships (Drop-Off ↔ Venue).
- Formula Fields (auto-calculate status).
- Auto Number Fields (unique IDs for tasks).

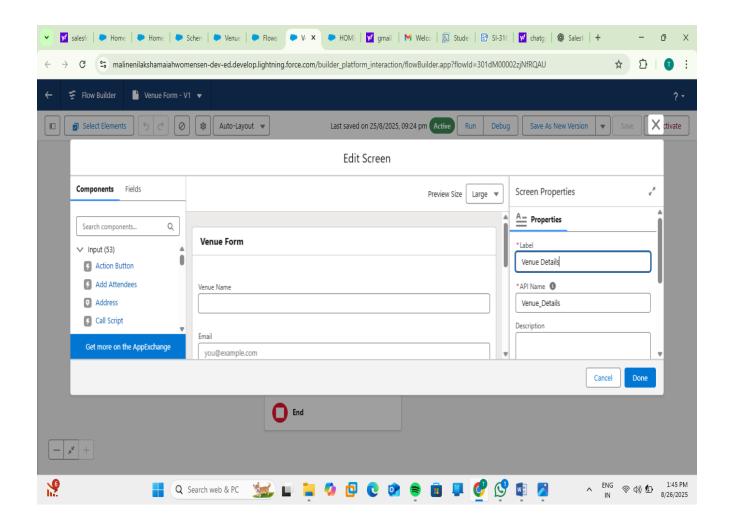
4.4 Automation

- Flow: To create Venue records automatically.
- **Trigger**: DropOffTrigger to calculate the distance between venues and drop-off points.
- Validation Rules: Example Ensuring Contact Email/Phone is mandatory for Venue.

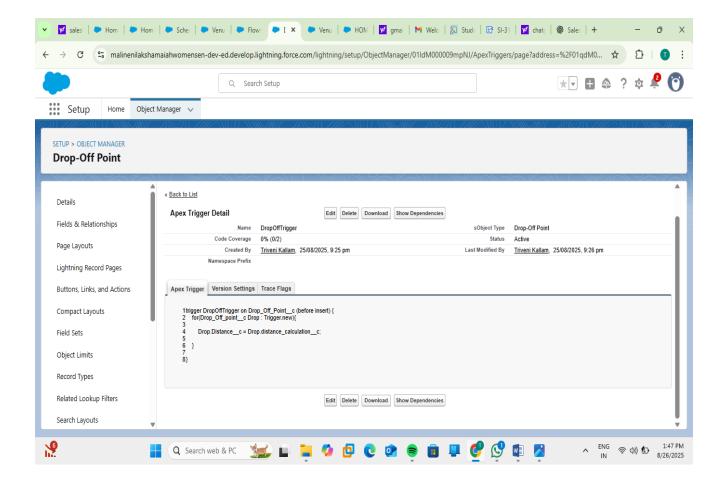
Venue Custom Object Fields.



Flow - Venue Creation



Trigger Code in Developer Console (DropOffTrigger).



5. UI/UX Development & Customization

In this phase, the user interface was designed for better usability.

Lightning App: FoodConnect

Navigation items: Venue, Drop-Off Point, Volunteer, Task, Execution Details.

Tabs & Page Layouts

- Custom layouts for each object.
- Volunteers can see only their assigned tasks.
- NGOs can track execution details for their food distribution.

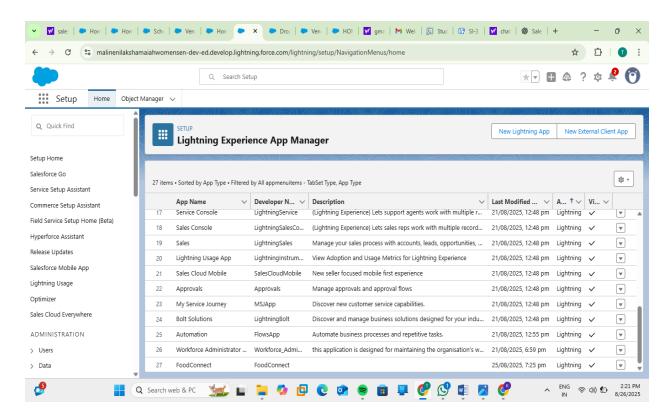
6. Reports & Dashboards

6.1 Reports

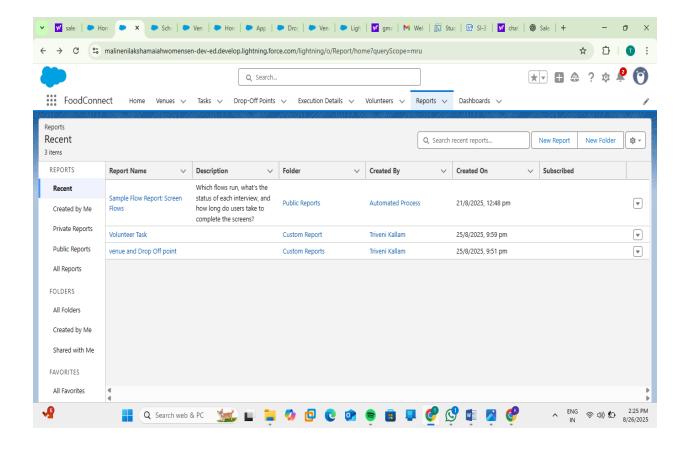
- 1. Venue with Drop-Off & Volunteers.
- 2. Volunteers with Execution Details & Tasks.

6.2 Dashboards

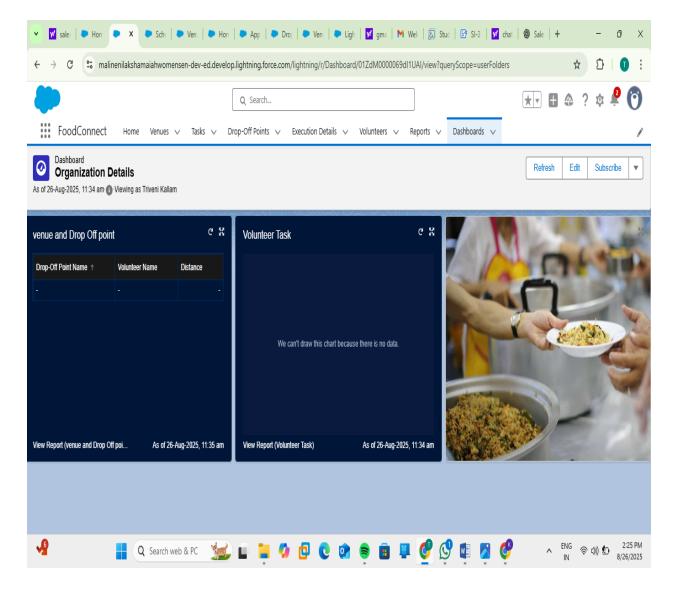
- Organization-level dashboards showing food donations over time.
- Task Execution dashboard displaying completed vs pending tasks.



Reports



Dashboards



7. Data Migration, Testing & Security

7.1 Data Migration

 Used Salesforce Data Import Wizard and Data Loader to migrate NGO and Volunteer records

7.2 Security Implementation

- Profiles NGO Profile,
- Users Iksha Foundation, NSS, Street Cause.
- **Public Groups** Grouped NGOs for collaboration.
- Sharing Rules Distance-based access for drop-off points.

7.3 Testing

- Verified Flows for Venue creation.
- Verified Triggers for distance calculation
- Verified Reports & Dashboards with sample data.
- Test Classes executed to achieve coverage >75%

8. Sharing Rules in FoodConnect CRM

In your project, sharing rules help NGOs, Volunteers, and Admins **collaborate effectively** while maintaining **data security**:

1. Venue Sharing Rule

- OWD for Venue = Private (so that NGOs don't see each other's donation sources).
- Sharing Rule: Share **Venue records** owned by *Iksha Foundation* with users in the *NSS NGO group* if both work in the same city.

2. **Drop-Off Point Sharing Rule**

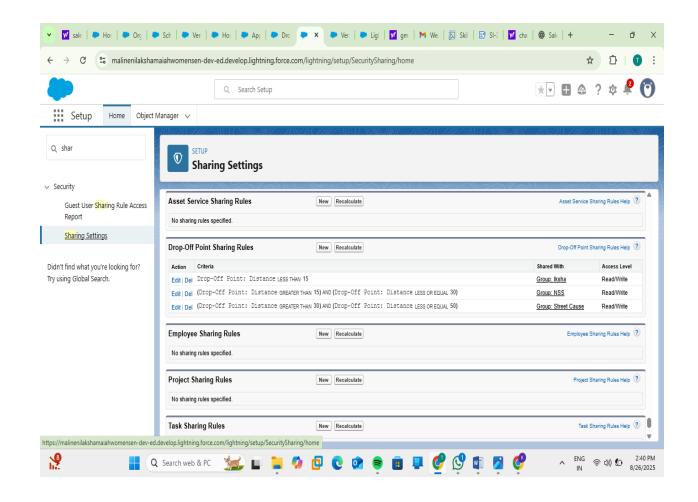
Criteria-Based: If Drop-Off Location = "Hyderabad", then share with all
Hyderabad Volunteers Group.

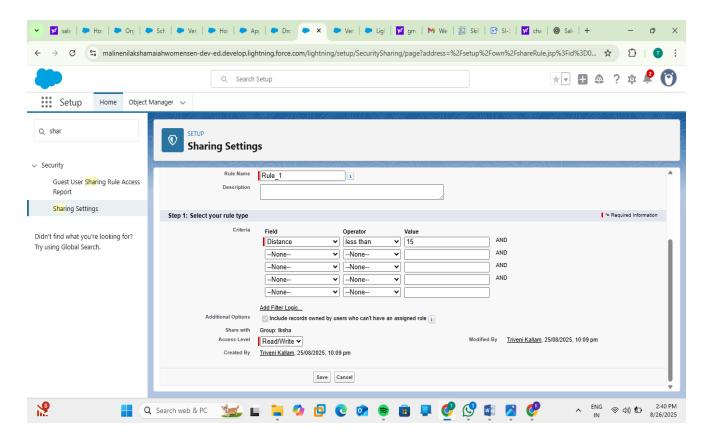
3. Task Sharing Rule

- Owner-Based: All Tasks created by Admin are shared with the assigned Volunteer's role.
- Ensures volunteers see only their assigned work.

4. Execution Details Sharing Rule

■ Criteria-Based: If Status = Completed, then share record with NGO Admins group for reporting.

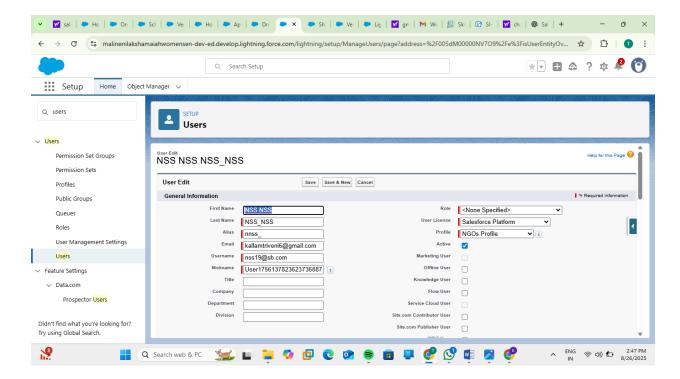




9. Users & Profiles

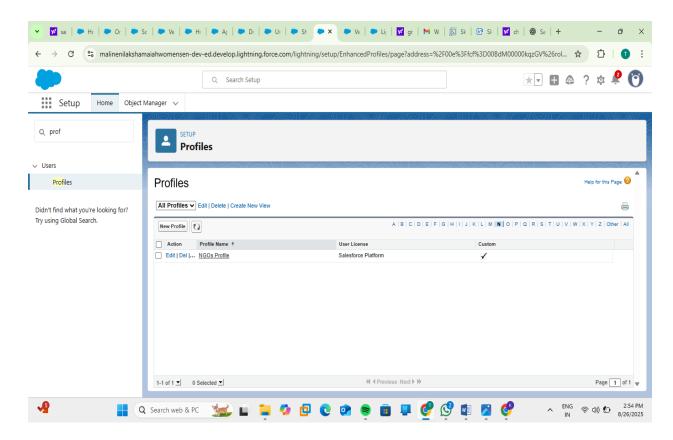
9.1 Users

"Users were created for NGOs Iksha Foundation, NSS, and Street Cause. Each user was assigned the NGO Profile."



9.2 Profiles

Created custom profile "NGO Profile" to define access levels.



10. Deployment & Maintenance

Deployment

• Used **Change Sets** to deploy configurations and customizations from Developer Org to Production.

Maintenance

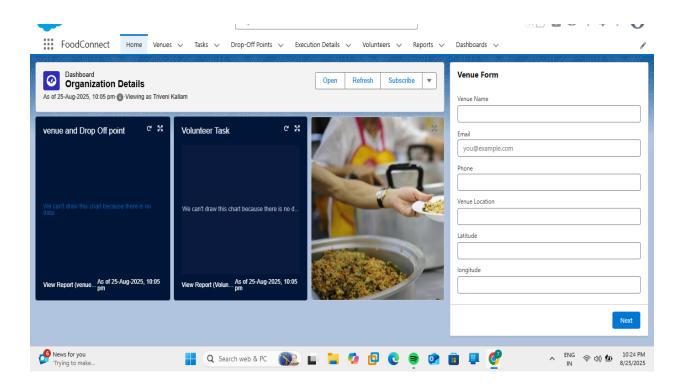
- Regular system health checks.
- Error log monitoring.
- User feedback collected periodically.

Troubleshooting

- Capturing Flow errors and providing debug logs.
- Resolving sharing rule conflicts.

11. Future Enhancements

- All chatbot to respond to NGO and Volunteer queries.
- WhatsApp integration for real-time volunteer coordination.
- Predictive reports on food demand patterns.



12.Conclusion

- ➤ FoodConnect CRM provides an automated and transparent solution for food donation management.
- ➤ It integrates venues, drop-off points, NGOs, and volunteers into a single Salesforce ecosystem.
- ➤ The system improves coordination, reduces food wastage, and ensures accountability.
- Reports and dashboards enable data-driven insights for better decision-making.
- > With future enhancements, FoodConnect CRM can evolve into a

scalable platform to fight food insecurity.

