Project Title: Distributing Leftover Food to the Needy

1. Project Overview:

This initiative aims to address food wastage while combating hunger by connecting food

donors (restaurants, events, households) with local charities and underprivileged communities.

A user-friendly platform facilitates the collection and distribution of surplus food to shelters,

reducing food waste and providing nourishment to those in need. Through real-time tracking

and notifications, the project ensures transparency and efficiency, fostering a sustainable.

compassionate community.

2. Objectives:

Business Goals:

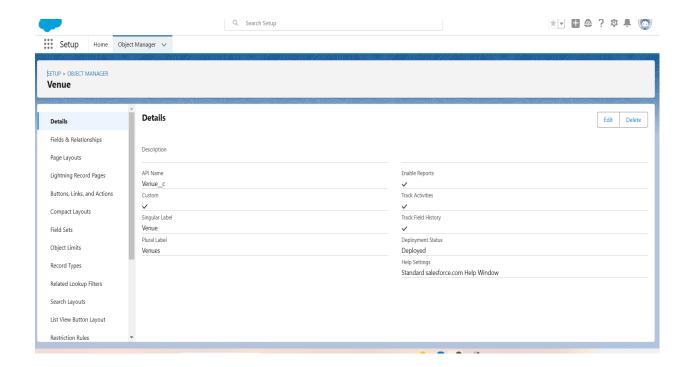
- Effective Volunteer and Resource Coordination: Streamline volunteer management, venue allocation, and task distribution for improved operational efficiency.
- Insightful Reporting: Develop customized reports and dashboards to aid data-driven decision-making.
- Enhanced Platform Accessibility: Provide easy access to key data for NGOs, improving collaboration and transparency.
- Process Automation: Automate key tasks to minimize manual efforts and enhance operational accuracy.
 Specific Outcomes:
- Centralized Data System:
- Creation of custom objects (Venue, Drop-Off Point, Task, Volunteer, Execution Details) for a cohesive data structure.

- Relationships among objects to ensure efficient data management.
- Streamlined Access Control:
- Creation of user profiles, public groups, and sharing rules for role-based data visibility.
- Custom Reports & Dashboards:
- Development of reports like "Venue with Drop-Off Point & Volunteer" and "Volunteers with Tasks & Execution Details."
- Dashboards for real-time insights, such as "Organizational Performance."
- User Interface Design:
- A custom app ("FoodConnect") with an intuitive interface for managing the organization's operational data.
- Dashboards, flows, and other components embedded into the home page.
- Automation:
- Automation of routine tasks like calculating distances between locations and creating necessary records.

3. Salesforce Features Utilized:

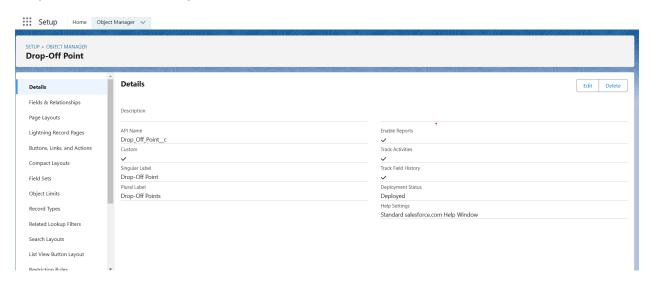
- Custom Objects & Relationships:
- Venue Object: Includes fields such as contact details and location, linked with Drop-Off Points.
- Drop-Off Point Object: Contains geolocation fields and calculation formulae, linked to Venues.
- Task & Volunteer Objects: Manage task assignment and volunteer participation with appropriate relations.
- User Profiles & Access Control:
- Custom user profiles for distinct NGO access and role-based permissions.
- Sharing rules and public groups for secure data access and collaboration across multiple NGOs.

- Reports & Dashboards:
- Custom reports to track volunteer and task performance, along with detailed organizational insights.
- Dashboards displaying key metrics and trends to enhance operational visibility.



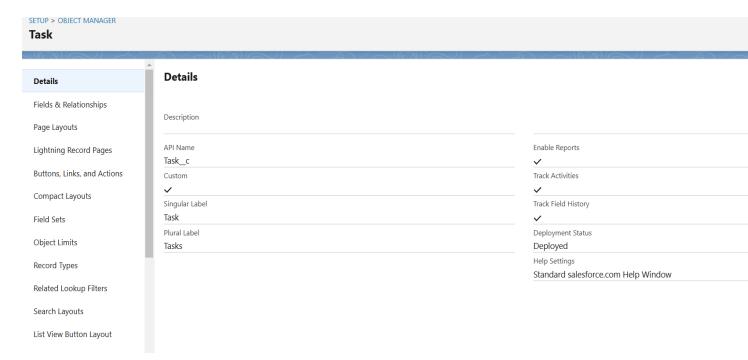
4. Solution Design Steps:

Step 1: Data Model Design



- Custom objects and relationships designed for efficient data handling.
- Example: A Task object linked to Venue and Volunteer objects.

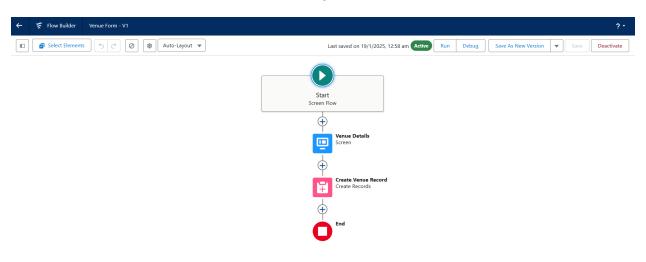
Step 2: User Interface Design



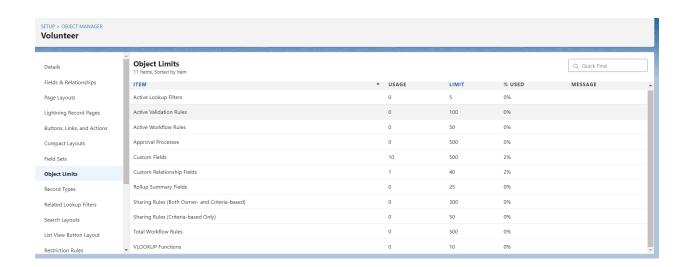
- Custom navigation and dashboards created to ensure an intuitive user experience within the Lightning App (FoodConnect).
- Example of interface layout: [Add Image Placeholder Here]

Step 3: Automation & Business Logic

• Flows: Automation of venue and task assignments.



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• Triggers: Automating distance calculation between venues and drop-off points.

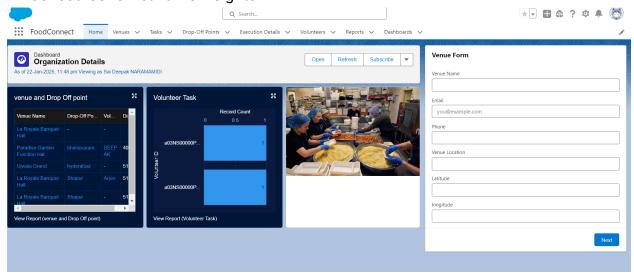
Step 4: Create Users & Access Control

Setup Home Object Manager V Setup > OBJECT MANAGER								
Details	Object Limits 10 Items, Sorted by Item				Q Quick Find			
Fields & Relationships	ITEM	▲ USAGE	LIMIT	% USED	MESSAGE			
Page Layouts	Active Lookup Filters	0	5	0%				
Lightning Record Pages	Active Validation Rules	0	100	0%				
Buttons, Links, and Actions	Active Workflow Rules	0	50	0%				
Compact Layouts	Approval Processes	0	500	0%				
Field Sets	Custom Fields	2	500	0%				
Object Limits	Custom Relationship Fields	2	40	5%				
Record Types	Sharing Rules (Both Owner- and Criteria-based)	0	300	0%				
Related Lookup Filters	Sharing Rules (Criteria-based Only)	0	50	0%				
Search Layouts	Total Workflow Rules	0	500	0%				
List View Button Layout	VLOOKUP Functions	0	10	0%				
Restriction Rules	•							

• Defined user profiles and sharing rules to ensure smooth collaboration.

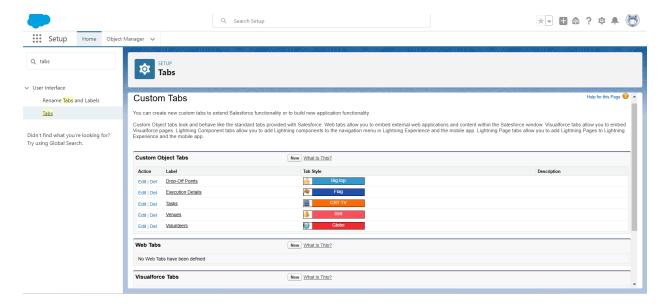
Step 5: Reports & Dashboards

- Reports for monitoring venue participation, volunteer tasks, and execution details.
- Dashboards for real-time insights



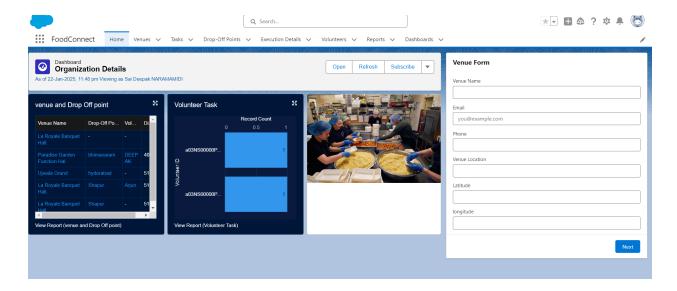
5. Testing & Validation:

- Unit Testing: Test Apex classes, triggers, and flows to validate logic functionality.
- User Interface Testing: Ensure seamless navigation across all app features, including home page, reports, and dashboards.
- Data Accuracy Testing: Validate proper data flow and visibility based on user roles and sharing rules.



6. Key Scenarios Addressed:

- Volunteer & Task Management: Track and manage volunteers effectively, ensuring task completion.
- Location-Based Operations: Leverage geolocation fields to optimize distance calculations for drop-off point assignments.
- Custom Reporting: Detailed insights through custom reports and dashboards, facilitating quick decision-making.
- Process Automation: Automating data-handling tasks like calculating distances and assigning tasks.



7. Conclusion:

The Salesforce-based solution streamlined NGO operations, enhanced task management, and

improved data accessibility through custom objects and automated features. The system

allows for optimized food distribution, improved volunteer coordination, and better datadriven

decision-making. This project highlights Salesforce's capacity to address complex organizational needs, ultimately supporting a sustainable and compassionate community.

8. Created By:

Sai Deepak Naramamidi Vishnu Institute of Technology