





To Supply Leftover Food to Poor

1.Project Overview:

This project is focused on "To Supply Leftover Food to the Poor", designed to address the challenge of food wastage and hunger. The goal is to deliver a comprehensive solution by leveraging Salesforce Nonprofit Cloud, Service Cloud, and Einstein Analytics. Through this project, we aim to enhance food redistribution efficiency, improve operational visibility, and foster community engagement, supporting the long-term goal of reducing food insecurity and minimizing food waste.

2. Objectives:

- Business Goals:
 - Minimize food waste and improve food accessibility.
 - Streamline donor and recipient management.
 - Provide real-time insights into food distribution impact.
- Specific Outcomes:
 - Develop a donor and recipient registration system.
 - Automate food collection and delivery scheduling.
 - Provide dashboards and reports for impact measurement.

3. Salesforce Key Features and Concepts Utilized:

- Sales Cloud: For managing donor and recipient information.
- Flow Automation: To automate food collection and delivery workflows.
- Reports & Dashboards: For real-time data visualization and impact measurement.
- **Custom Objects:** Food_Item__c, Donor__c, Recipient__c, Delivery__c.
- Apex Triggers: For automated notifications and process handling.







4. Detailed Steps to Solution Design:

Data Models:

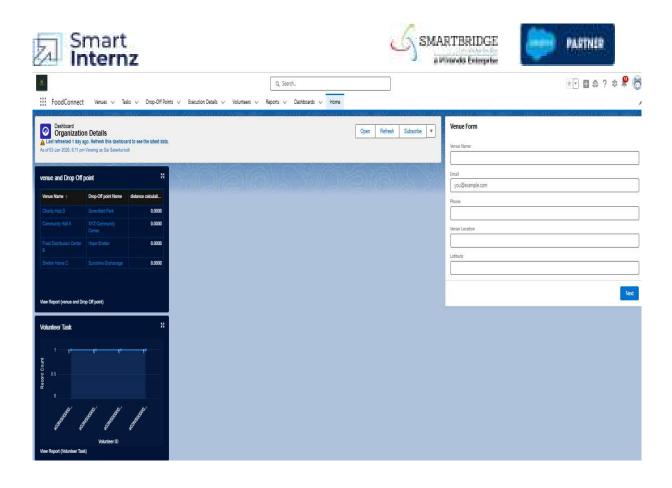
- Custom objects created for Donors, Recipients, Food Items, and Deliveries.
- Relationships established for tracking donation lifecycles.
- Donor:Stores donor details.
- Food Donation: Tracks donated food and quality.
- Voluntree: Manages tasks assigned to volunteers.
- Distribution: Records food delivery status.

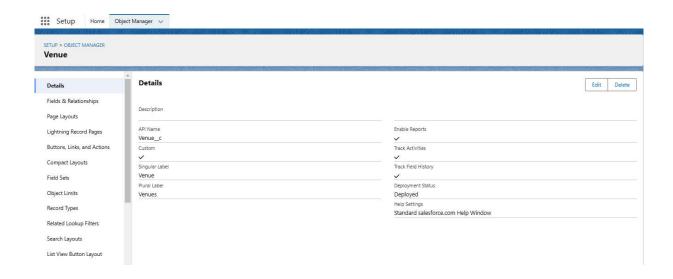
• User Interface Design:

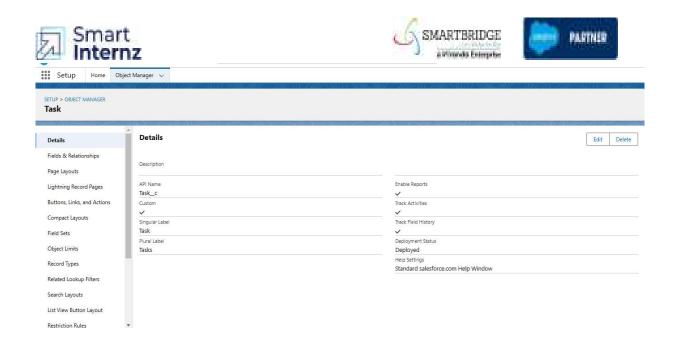
- Custom Lightning Pages for donor and recipient profiles.
- Integration of food inventory views.
- Donor Portal: Simple and intuitive interface for logging food donations.
- Volunteer Dashboard: A task overview page displaying pending and completed assignments.
- NGO Management Panel: Interface for NGOs to view available food and request donations

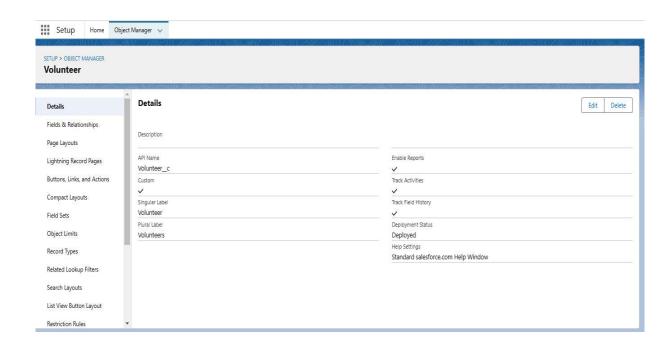
• Business Logic:

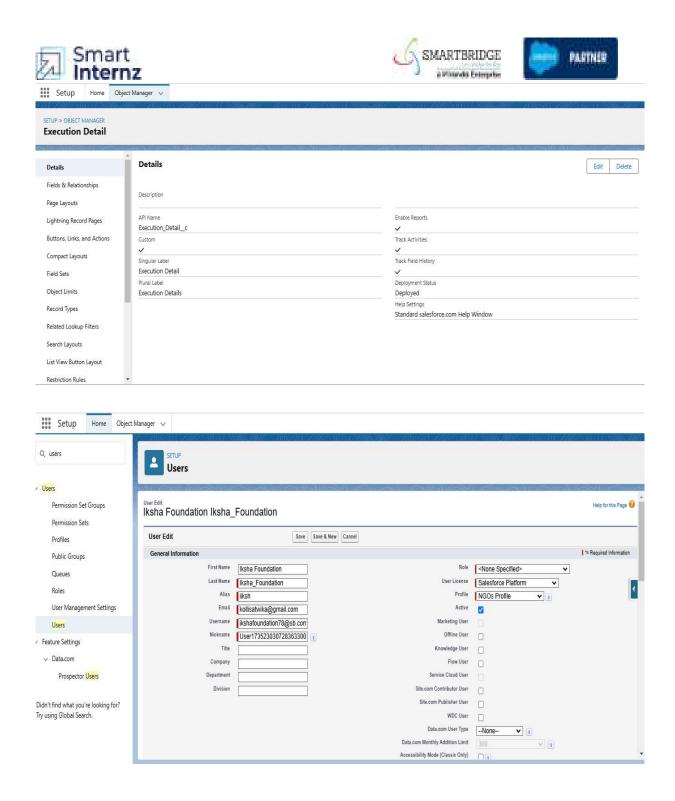
- Automated notifications for food availability and delivery scheduling.
- Batch jobs for periodic data cleanup and performance optimization.
- Triggers: Apex triggers to automatically assign logistics resources to food donations.
- Validation Rules: Ensures data integrity for donation entries (e.g., food expiry dates).
- Scheduled Jobs: Automates the cleanup of expired food donation records.

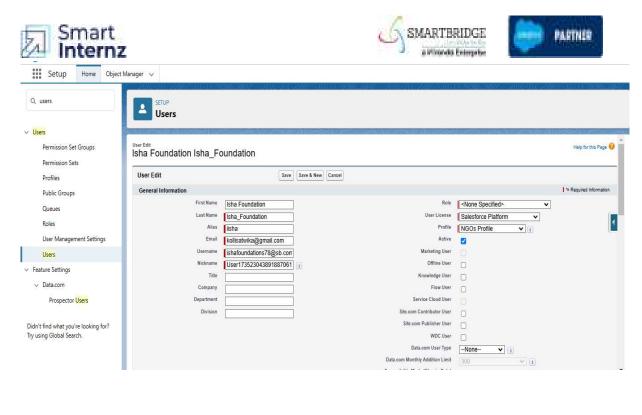


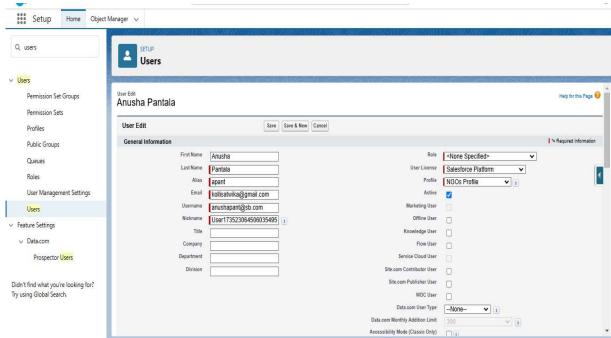


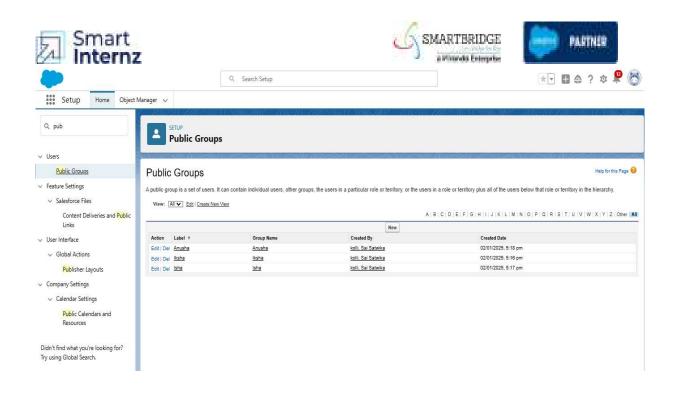


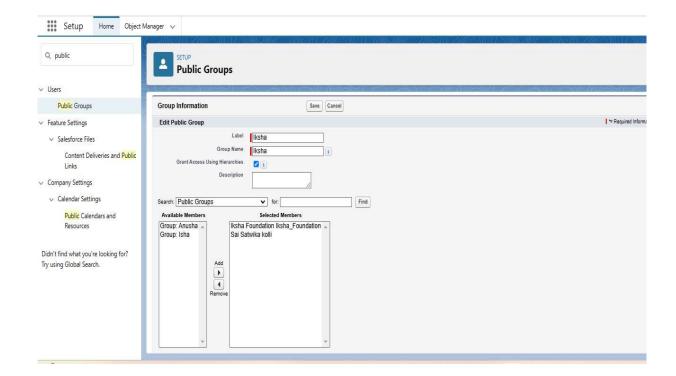


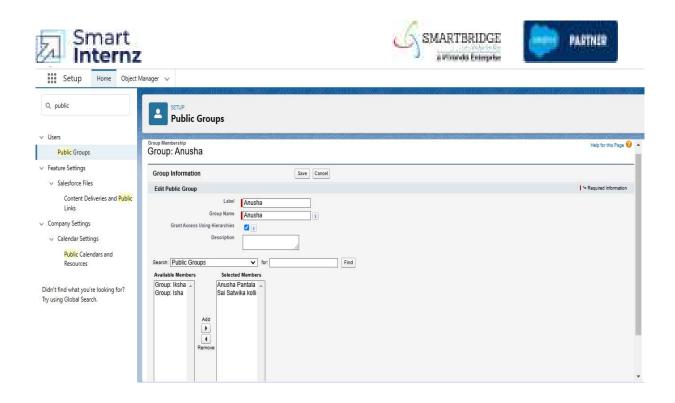


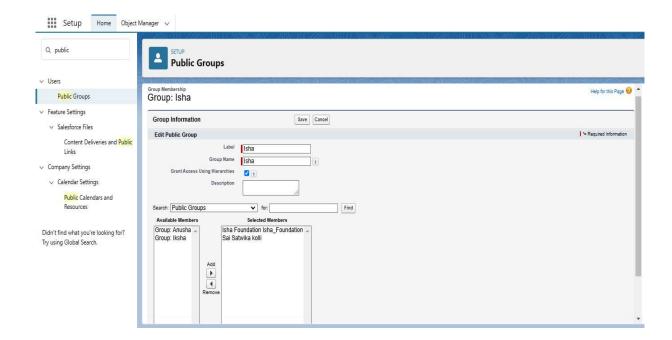


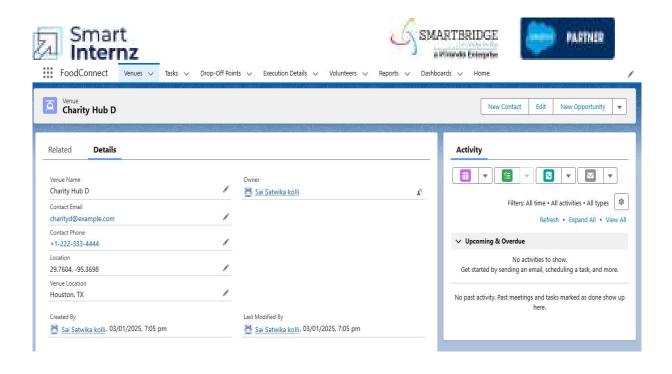


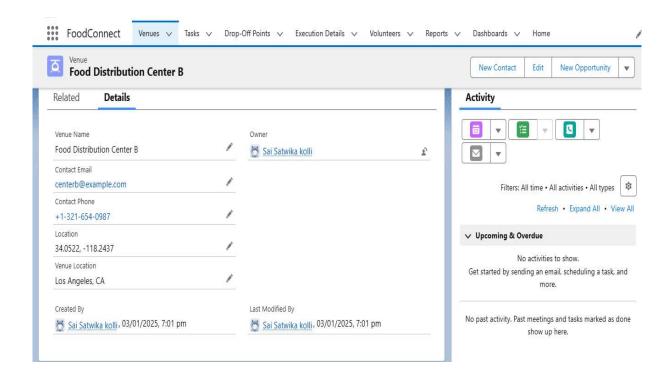


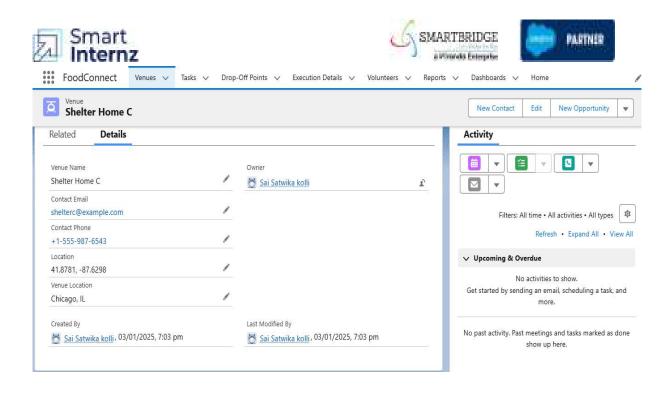


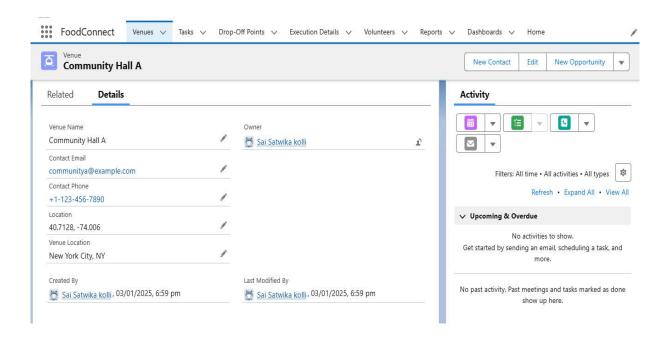


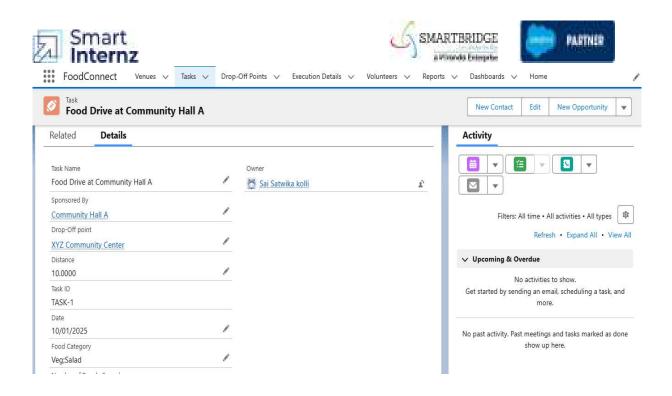


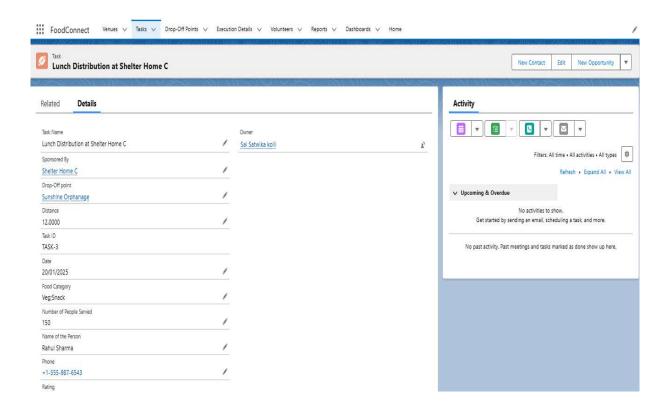


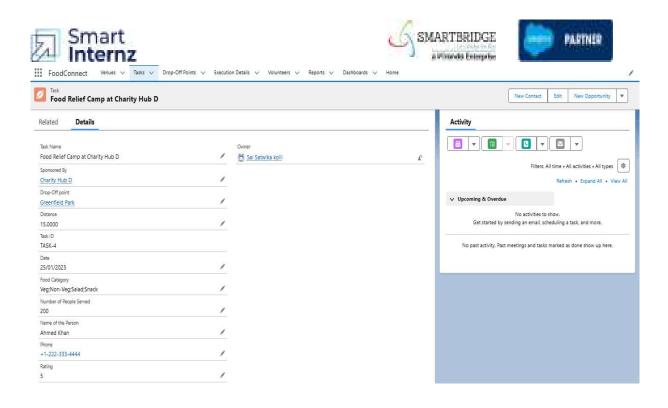


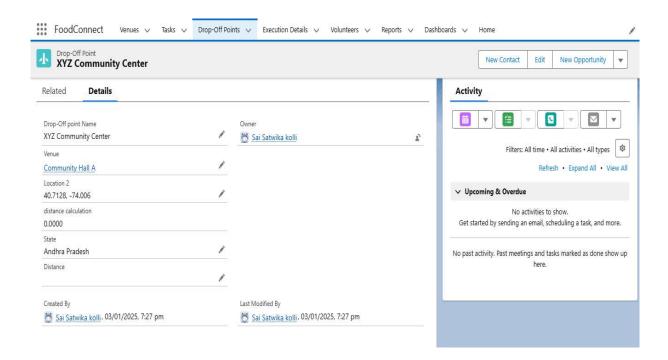


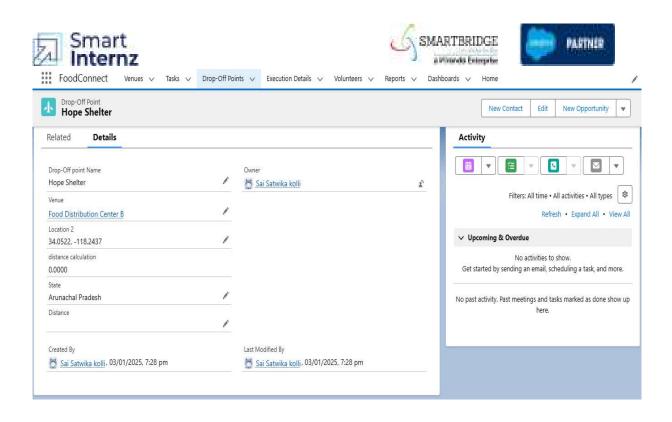


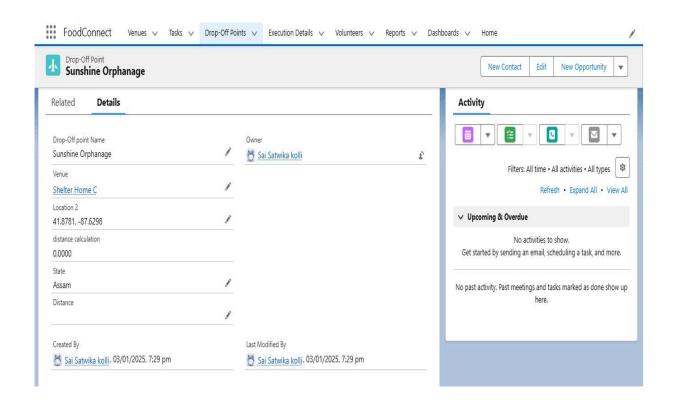








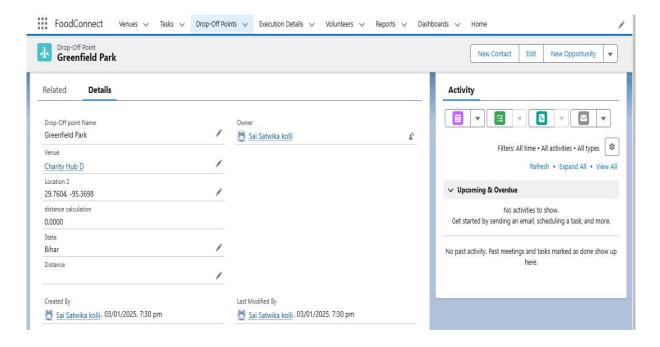


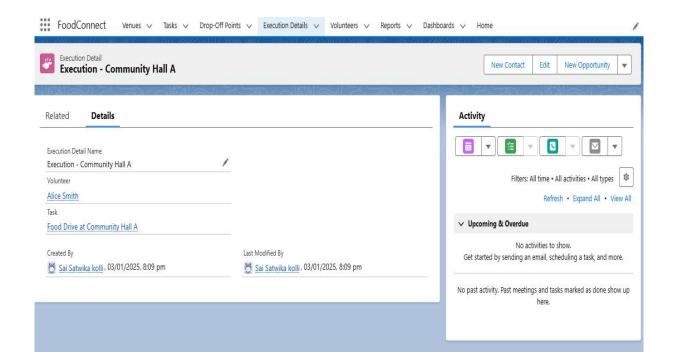


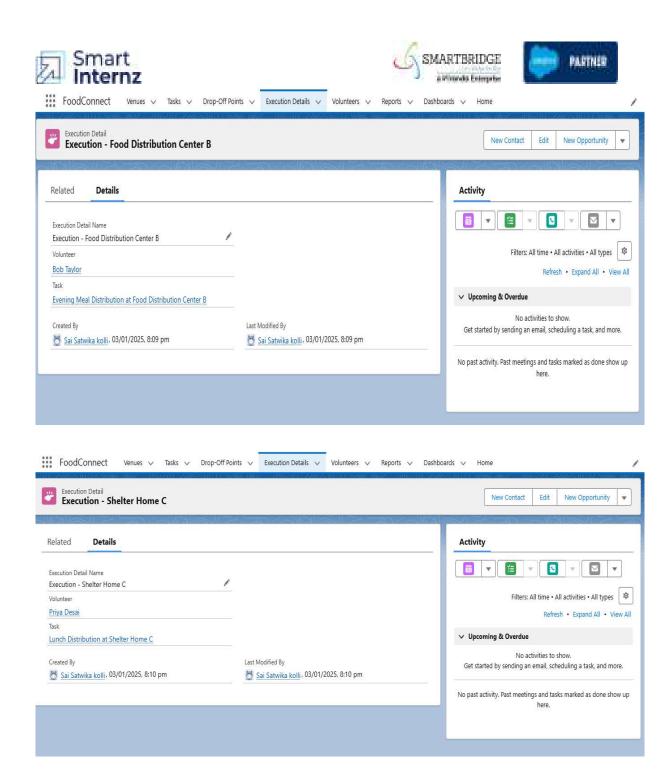


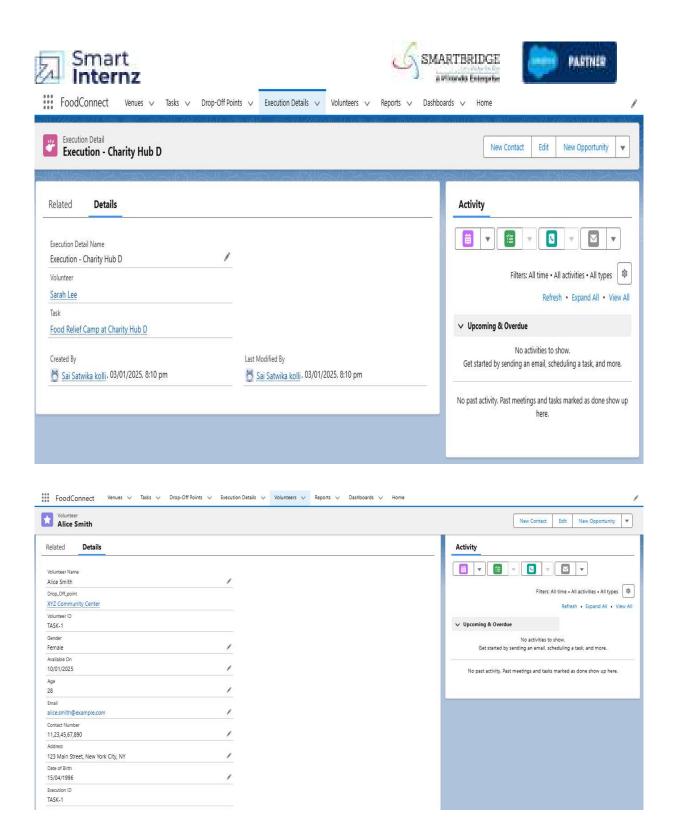


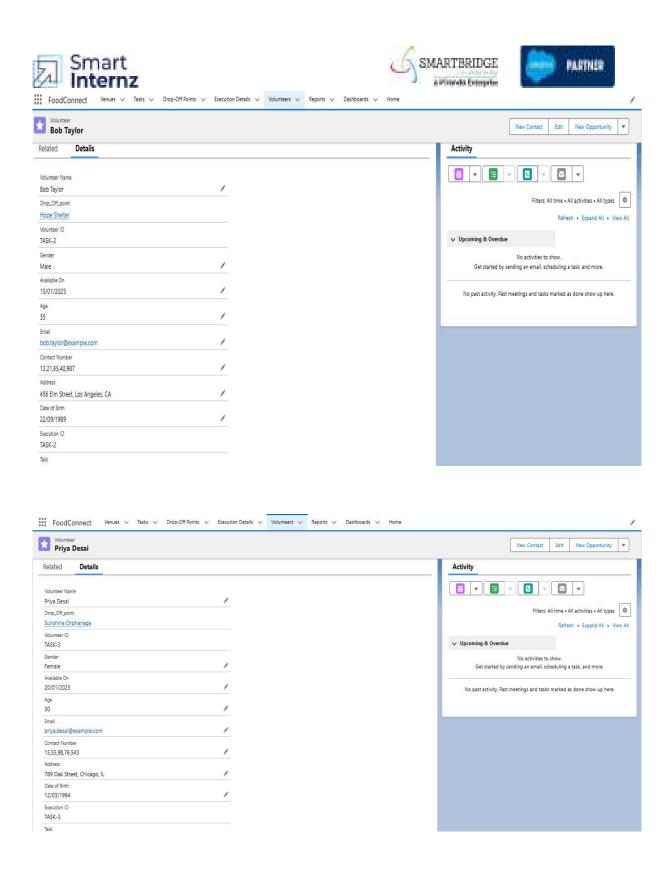


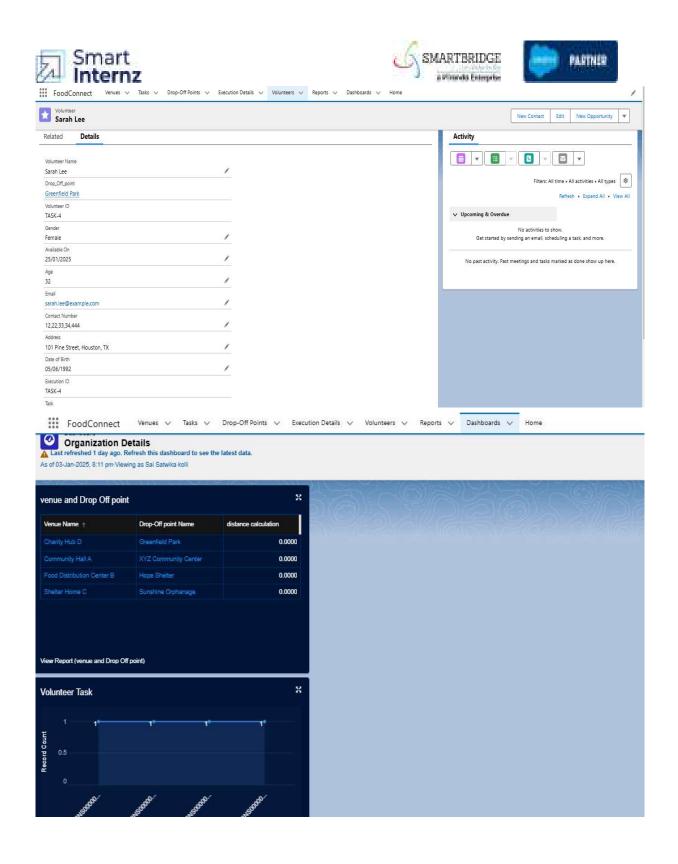








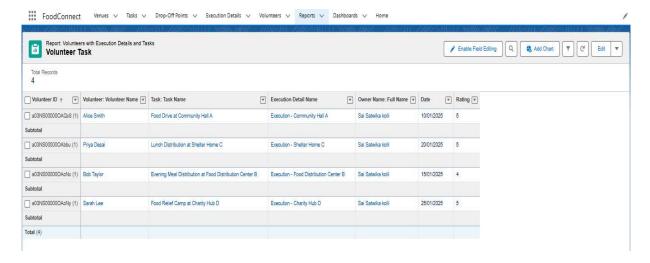










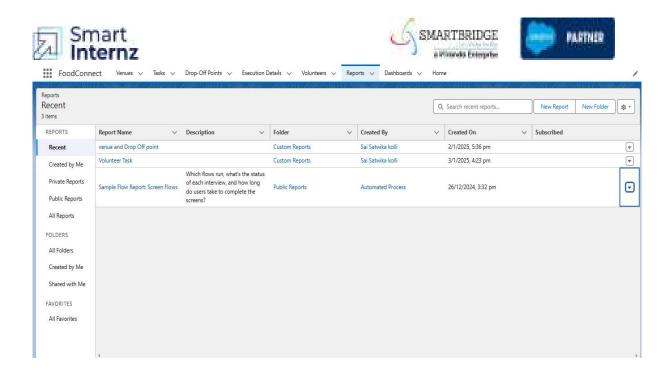


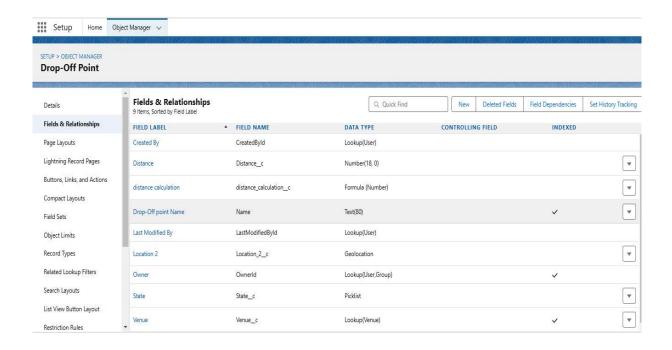
5. Testing and Validation:

- Unit Testing:
 - Apex Classes and Triggers tested for code coverage and reliability.
- User Interface Testing:
 - Manual testing for donor registration and delivery scheduling.
 - Regression testing for automation consistency.

6. Key Scenarios Addressed by Salesforce in the Implementation Project:

- Scenario 1: Donor updates food availability, triggering automated recipient matching.
- Scenario 2: Automated delivery scheduling based on food type and recipient location.
- Scenario 3: Real-time reporting on food distribution and impact.











7. Conclusion:

The "To Supply Leftover Food to the Poor" project successfully addresses the dual challenge of food waste and hunger by implementing a Salesforce-based solution.

Acheivements include:

- Successfully developed a Salesforce platform for efficient food redistribution.
- Automated core processes, improving operational efficiency.
- Enabled data-driven decision-making through comprehensive reporting.

This Project demnostrates the power of technology in addressing the social challenges and lays a foundation for the future expansion for innovation.