To Supply Leftover Food to Poor

1. Project Overview

Efficient coordination of food collection, volunteer management, and delivery to various drop-off locations is the goal of the To Supply Leftover Food to Poor project. By taking advantage of the Salesforce platform, the solution will make data administration easier and allow for real-time tracking. Long-term objectives of this project include lowering food waste and helping underserved communities by enhancing operational effectiveness, user experience, and data quality.

2. Objectives

Business Goals:

- Develop a practical plan for handling surplus food presents.
- To increase the effectiveness of food distribution, simplify coordination between delivery, volunteers, and collection locations.
- Make real-time tracking and reporting possible to aid with impact analysis and decision-making.

Specific Outcomes:

- In order to manage locations, volunteers, drop-off locations, and work assignments, custom objects and links were created.
- A system for real-time reporting offers information on food distribution.
- Dashboards that show the distribution of food, volunteer participation, and location-specific requirements.

3. Salesforce Key Features and Concepts Utilized

Several Salesforce features are used in this project, including:

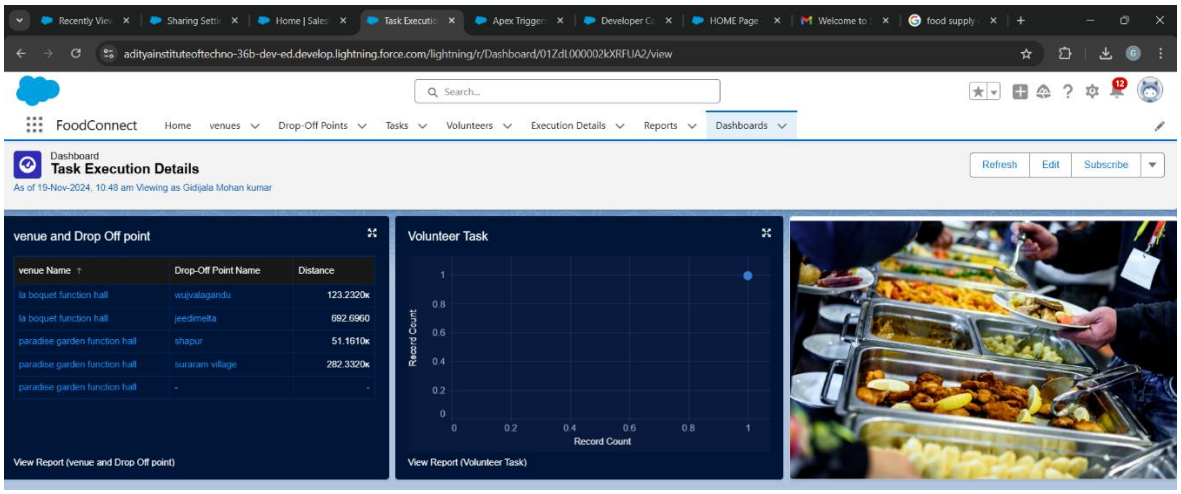
- **New Objects**: To track data, such as Venue, Drop-Off Point, Task, Volunteer, and Execution Details, new objects were created.
- **Triggers**: To automatically set distance values, a special Apex trigger called DropOffTrigger was implemented.
- **Lighting App with Custom Tabs**: To provide simple navigation across all objects, the Food Connect Lightning App was developed with custom tabs.
- **Sharing Rules**: To control user access based on proximity, sharing rules were configured based on distance.

4. Detailed Steps to Solution Design

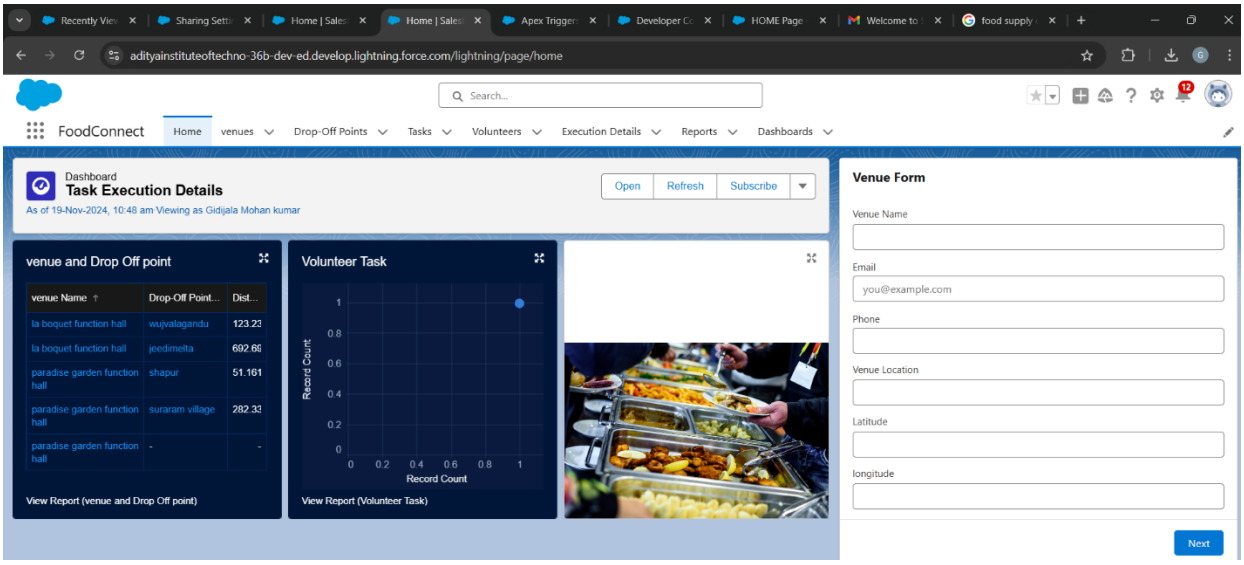
The design and development process consisted of the following steps:

- **Data Models:** Developed data models for Venue, Drop-Off Point, Task, Volunteer, and Execution Details, including necessary fields and associations (Lookup and MasterDetail).
- **User Interface Design**: Created custom tabs for simple navigation in ***FoodConnect*** Lightning App.
- **Business Logic**: Developed the ***DropOffTrigger*** to automatically assign distances to the Distance Calculation field, enabling easy rule assignment.
- **Screenshots**:

Screenshot of the UI



Mohan Add Screenshot of the Flow.



5. Testing and Validation

The testing strategy included:

- **Unit Testing:** Unit tested Apex Classes and Triggers, including ***DropOffTrigger*** and custom field changes.

- **User Interface Testing:** Validated each user interface component for ease of use and accurate data flow across bespoke tabs and the ***FoodConnect*** App.

6. Key Scenarios Addressed by Salesforce in the Implementation Project

- **Scenario 1: Coordinating Food Collection and Distribution**
  - Establish drop-off points and coordinate distances with specified sharing groups.
- **Scenario 2: Volunteer Tracking and Assignment**
  - Ensured effective food collection and delivery by monitoring volunteer availability and tasks.
- **Scenario 3: Feedback and Reporting**
  - Volunteers can provide feedback on deliveries, gather ratings, and track capacity for future improvements.

7. Conclusion

Summary of Achievements: Using Salesforce, the project successfully implemented a streamlined system for coordinating food donations, volunteer coordination, and delivery to designated locations. This platform significantly lowers food waste while promoting the goal of giving food to marginalized regions, proving a scalable and viable solution to food security.