To Supply Leftover Food to Poor

1. Project Overview

The ***To Supply Leftover Food to Poor*** project aims to efficiently coordinate food collecting, volunteer administration, and transportation to different drop-off places. The solution exploits the Salesforce platform will simplify data management and enable real-time tracking. This initiative intends to improve ***operational efficiency, user experience, and data quality,*** with long-term goals of reducing food waste and benefiting marginalized populations.

2. Objectives

Business Goals:

- Create an effective strategy for managing extra food gifts.
- Streamline coordination between collection points, volunteers, and delivery to maximize food distribution efficiency.
- Enable real-time tracking and reporting to support decision-making and impact assessment.

Specific Outcomes:

- Created custom objects and connections to manage venues, volunteers, drop-off points, and task assignments.
- Real-time reporting system provides insights into food distribution data.
- Dashboards to visualize food distribution, volunteer involvement, and location-specific needs.

3. Salesforce Key Features and Concepts Utilized

This project uses various Salesforce functionalities, including:

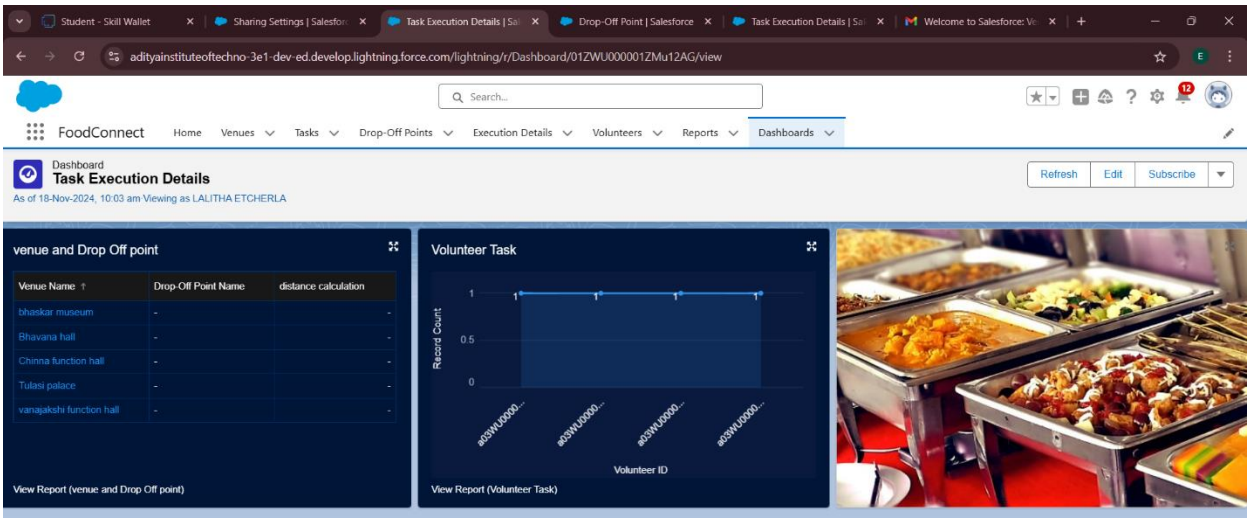
- **Custom Objects**: Developed custom objects to track data, including Venue, Drop-Off Point, Task, Volunteer, and Execution Details.
- **Triggers:** Implemented custom Apex trigger (***DropOffTrigger***) to automatically assign distance values.
- **Lightning App and Custom Tabs:** Created FoodConnect Lightning App with custom tabs for easy navigation across all objects.
- **Sharing Rules:** Configured sharing rules based on distance to manage access for users depending on proximity.

4. Detailed Steps to Solution Design

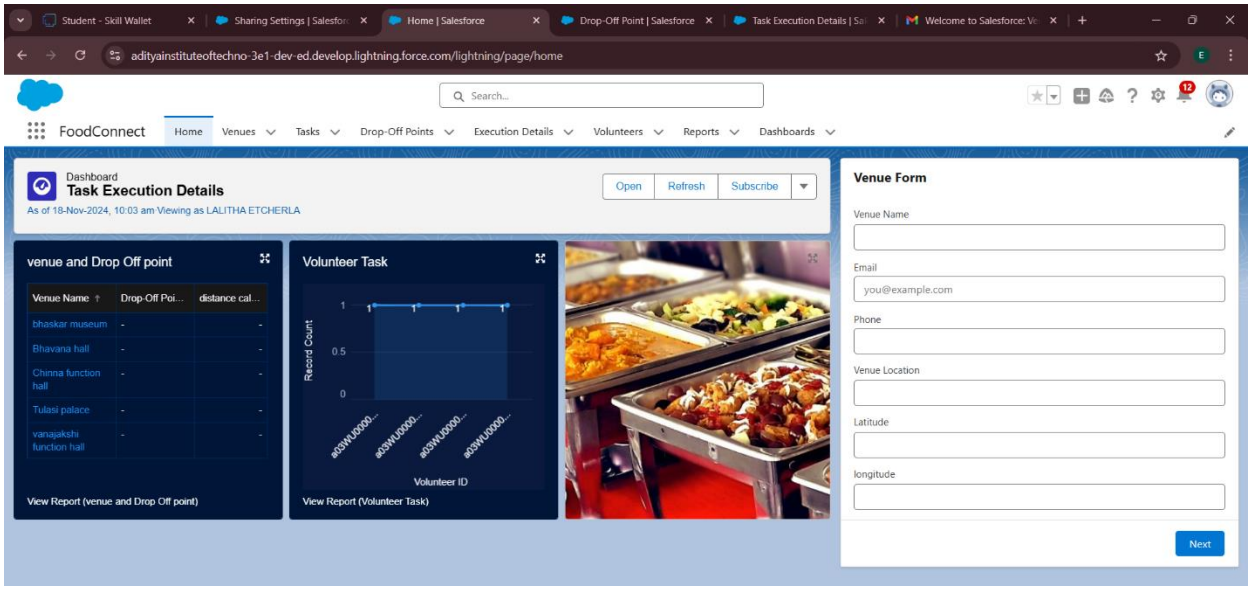
The design and development process consisted of the following steps:

- **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



Lalitha 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.