To Supply Leftover Food to Poor

1. Project Overview

The goal of the **To Supply Leftover Food to Poor** project is to effectively handle the logistical coordination issues associated with food collecting, volunteer management, and transportation to several drop-off locations. The solution makes use of the Salesforce platform to facilitate real-time tracking and expedite data management. The long-term objectives of this project are to reduce food waste and assist underprivileged populations while improving operational efficiency, user experience, and data integrity.

2. Objectives

Business Goals:

•Establish a reliable procedure to handle donations of extra food.

•Streamline volunteer, delivery, and collection point coordination to increase the effectiveness of food distribution.

•Make real-time tracking and reporting possible to aid with impact analysis and decision-making.

Specific Outcomes:

• The creation of unique objects and connections to monitor locations, volunteers, drop-off locations, and job allocations.

• A reporting system that provides up-to-date information on parameters related to food distribution.

• Dashboards that show the distribution of food supplies, volunteer participation, and location-based requirements.

3. Salesforce Key Features and Concepts Utilized

This project utilizes several Salesforce features, including:

•**Custom Objects:** For data tracking, we created the Venue, Drop-Off Point, Task, Volunteer, and Execution Details objects.

•**Triggers:** To automatically set distance values, a special Apex trigger called DropOffTrigger was implemented.

•**Lightning App and Custom Tabs:** A FoodConnect Lightning App was created to streamline and organize navigation for all objects.

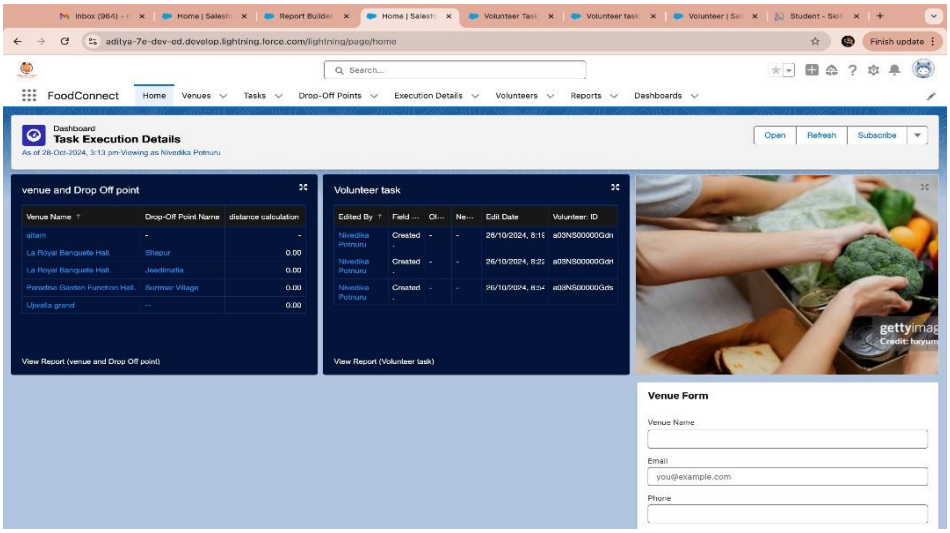
- **Sharing Rules**: To make it easier to limit user access based on proximity, sharing rules were configured using distance criteria.

4. Detailed Steps to Solution Design

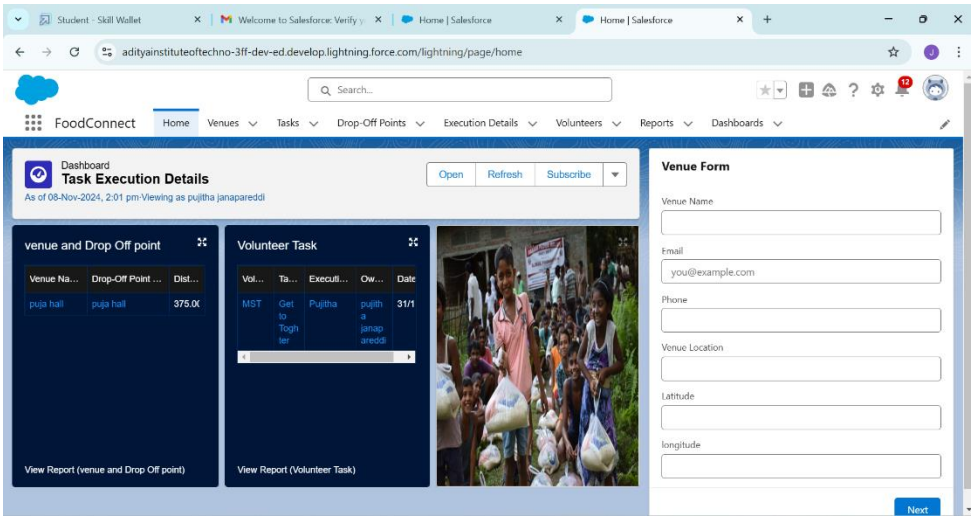
The design and development process included the following steps:

- **Data Models:** Constructed unique objects with pertinent fields and associations (Lookup and Master-Detail) for the following: Venue, Drop-Off Point, Task, Volunteer, and Execution Details**.**
- • **User Interface Design:** Added unique tabs to the FoodConnect Lightning App to facilitate navigation.
- • **Logic for Business:** DropOffTrigger was created to automatically assign distances to the Distance Calculation field so that rules may be assigned smoothly**.**
- **Screenshots**:

Screenshot of the UI



Pujitha Add Screenshot of the Flow.



5. Testing and Validation

The approach to testing involved:

- **Unit Testing:** Apex Classes and Triggers, particularly DropOffTrigger and custom field updates, were tested.
- **User Interface Testing:** Verified the accuracy of data flow and usability of each UI element across custom tabs and the FoodConnect App.

6. Key Scenarios Addressed by Salesforce in the Implementation Project

- **Scenario 1: Food Distribution and Collection Coordination:**
  - Overseen by establishing and linking drop-off locations and arranging distances with designated sharing groups.
- **Scenario 2: Volunteer Assignment and Tracking:**
  - Ensured effective food collection and delivery assignments by keeping an eye on volunteer duties and availability.
- **Scenario 3: Reporting and comments:**
  - Made it possible for volunteers to rate deliveries, track served capacity for upcoming enhancements, and offer comments on delivery.

7. Conclusion

Summary of Achievements: The project effectively created a streamlined system for handling food donations, organizing volunteers, and delivering them to specified places by utilizing Salesforce. This platform demonstrates a scalable and significant approach to food security by efficiently reducing food waste while advancing the objective of delivering food to underprivileged communities.