Project Title: To Supply Left Over Food To Poor

Category: Salesforce

Skills Required: Salesforce Developer

1. Project Overview

This project focuses on **connecting surplus food from donors to the underprivileged** through Salesforce technology. It aims to address the dual challenges of **food waste reduction** and **hunger alleviation**. By leveraging Salesforce CRM, automation tools, and community collaboration, the project provides a streamlined system for managing donations and ensuring food reaches those in need promptly. This initiative enhances sustainability, reduces environmental waste, and strengthens social equity by tackling hunger efficiently.

2. Objectives

Business Goals:

- Minimize food waste by redistributing surplus food from businesses and events.

- Improve access to food for underprivileged individuals through organized logistics.

- Build a transparent and scalable network of donors and beneficiaries.

Specific Outcomes:

- Automated matching of food donors with beneficiaries in real time

●Tracking of donations, ensuring quality and compliance with food safety standards.

●Analysis of food donation trends to optimize the process and maximize impact.

4. Salesforce Key Features and Concepts Utilized

Advanced Features:

1. Salesforce Flow:

  ● Automates workflows, such as matching donors to beneficiaries and

  sending alerts.
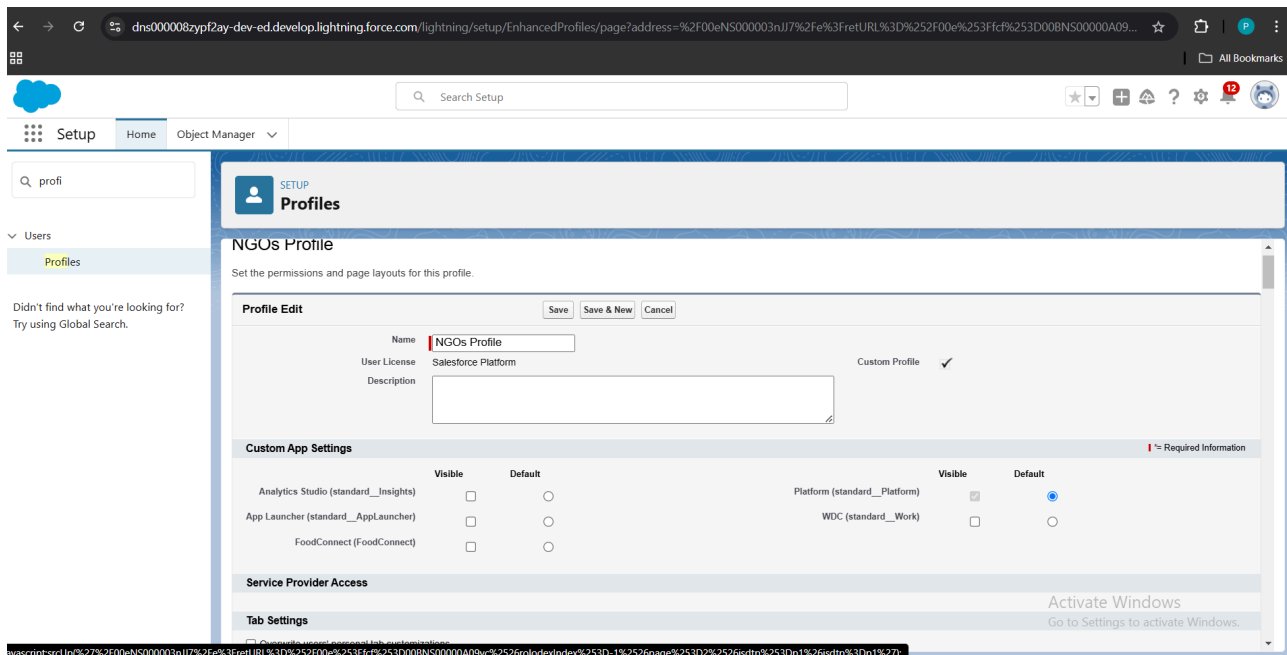
2. Einstein AI:

  ●Predicts food needs based on historical data and donation trends.

3. Community Cloud:

  ●Creates a centralized hub for donors, non-profits, and volunteers to interact.

4. Integration with Mobile Apps:

● Simplifies user engagement by allowing real-time tracking and notifications on the go.

5. Detailed Steps to Solution Design

Data Models:

- Donor Data Model: Includes fields for donor name, contact information, and available food items.

- Beneficiary Data Model: Captures the non-profit's requirements, capacity, and location.

- Inventory Management: Tracks food expiry, quantity, and type (e.g., perishable or non-perishable).
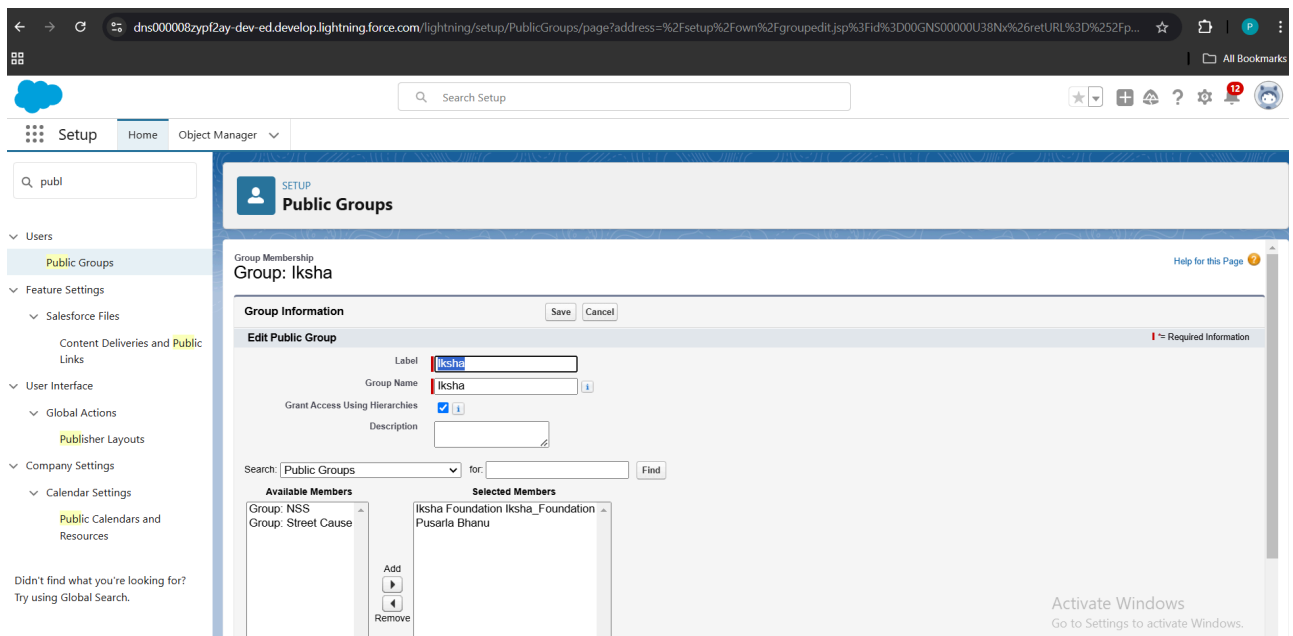
Workflow Automation:

Step 1: Donors log details of leftover food (e.g., 50 sandwiches, available for pickup by 7 PM).

Step 2: Salesforce Flow matches the logged food to nearby beneficiaries.

Step 3: Notifications are sent to beneficiaries and volunteers.

Step 4: Pickup and delivery statuses are updated in real time.
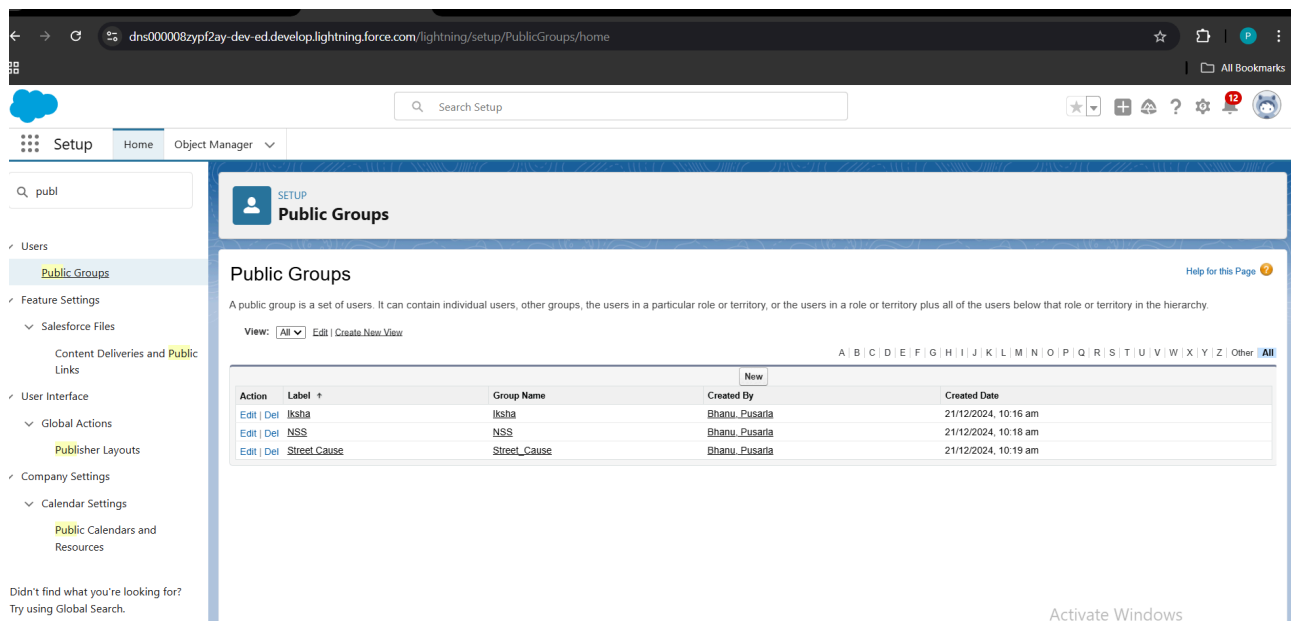
Design Enhancements:

- User Interface:

    - Donor View: A simplified interface to log food details in seconds. ○

    Beneficiary View: A dashboard showing all available food donations nearby.

6. Testing and Validation

Testing Strategy:

1. Unit Testing:

- Check that donor and beneficiary data sync correctly across all components.

- Ensure automated triggers send accurate and timely notifications.

2.Integration Testing:

- Validate that mobile apps and external delivery systems (e.g., Google Maps) work seamlessly.
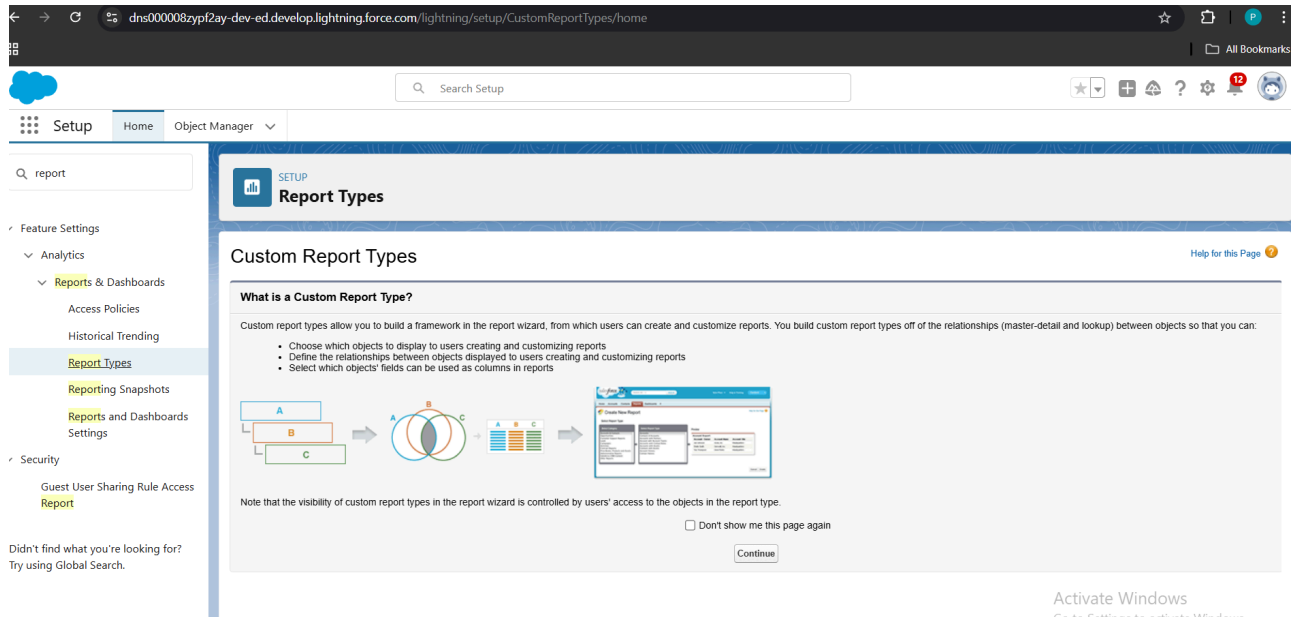
3.User Acceptance Testing (UAT):

- Conduct feedback sessions with donors, beneficiaries, and volunteers to identify usability improvements.

4.Load Testing:

- Simulate high-traffic scenarios to ensure the platform can handle scaling.

Validation Metrics:

1.Accuracy of food-matching algorithms.

2.Response time for real-time notifications.

3.User satisfaction scores for each stakeholder group.

7. Key Scenarios Addressed by Salesforce in the Implementation

1. **Scenario 1**: Donor Availability

   ● A donor logs a large quantity of perishable food at the end of an event.

Salesforce immediately notifies nearby shelters, and a volunteer picks it up within an hour. 2.

Scenario 2: Beneficiary Shortage

   ● A beneficiary logs a request for specific food items (e.g., vegetarian meals).

   Salesforce uses its database to recommend donors with surplus matching the request.

3. **Scenario 3**: Volunteer Coordination
   ● Volunteers receive a real-time update when a new donation is logged. Route

optimization tools guide them to complete pickups efficiently.
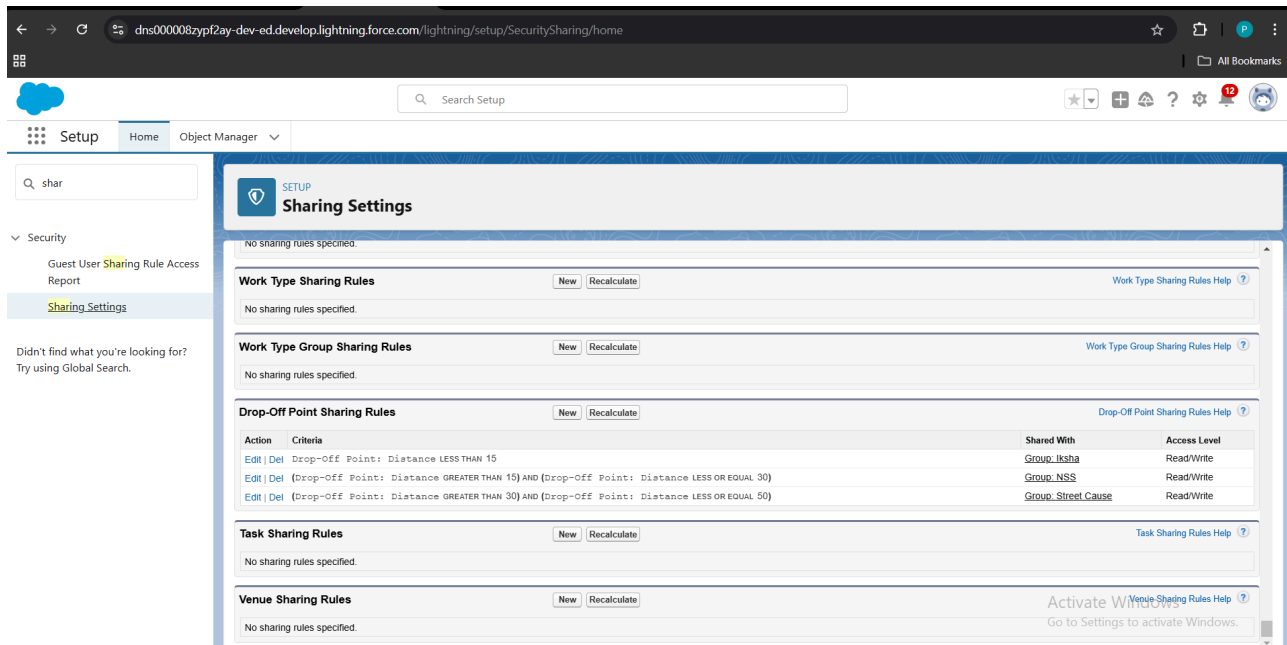
4. **Scenario 4**: Reporting Impact

- Admins generate a report showing how many meals were provided, total donations, and environmental savings in a month.

8. Conclusion

Achievements:

- The project successfully leveraged Salesforce to reduce food waste and fight hunger.
- Automations improved efficiency, cutting down the time it takes to connect donors and beneficiaries.
- Insights and analytics enabled stakeholders to measure the social and environmental impact.

Vision for the Future:

- Expand the project to incorporate a global database of donors and beneficiaries.

- Integrate with AI-driven food quality assurance systems.

- Collaborate with government and international organizations to increase scale and impact.