

Project Title

To Supply Leftover Food to Poor

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To Supply Leftover Food to Poor

1. Project Overview

This project aims to leverage the power of Salesforce to create an efficient and scalable solution for distributing leftover food to those in need. By utilizing Salesforce's robust capabilities, we can streamline the process of collecting, tracking, and delivering surplus food, ensuring it reaches the hands of hungry individuals and families.

2. Objectives

To develop a Salesforce-based platform that efficiently connects surplus food donors (restaurants, grocery stores, etc.) with organizations serving the food-insecure population, thereby reducing food waste and alleviating hunger.

Goal:

- **Reduce food waste:** Minimize the amount of edible food that is discarded by facilitating its redistribution to those in need.
- **Alleviate hunger:** Provide nutritious meals to individuals and families facing food insecurity.
- **Increase operational efficiency:** Streamline the process of food donation and distribution through automation and data-driven insights

Expected Outputs:

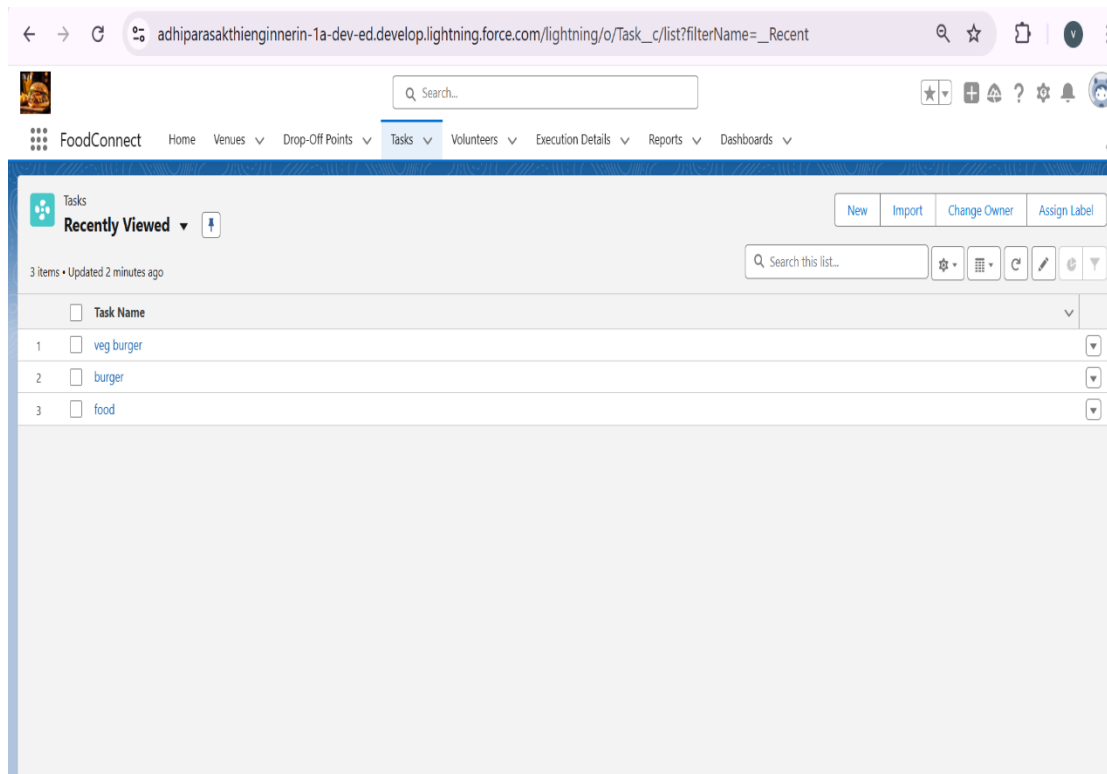
- **Salesforce Platform:** A robust Salesforce platform with custom objects and workflows to manage:
 - Donor information and surplus food details
 - Recipient organization profiles and needs
 - Food pickup and delivery schedules
 - Real-time tracking of food donations and distributions
 - Reporting and analytics to measure impact
- **Improved Efficiency:** Streamlined processes for food donation, pickup, and distribution, leading to reduced logistical challenges and faster delivery times.
- **Increased Food Rescue:** A significant increase in the amount of surplus food rescued and distributed to those in need.
- **Data-Driven Insights:** Data-driven insights to optimize operations and identify areas for improvement.
- **Positive Social Impact:** A measurable reduction in food waste and a positive impact on the lives of individuals and families facing food insecurity.

4. Detailed Steps to Solution Design

The primary goal of this project is to efficiently connect businesses with excess food to organizations that can distribute it to those in need.

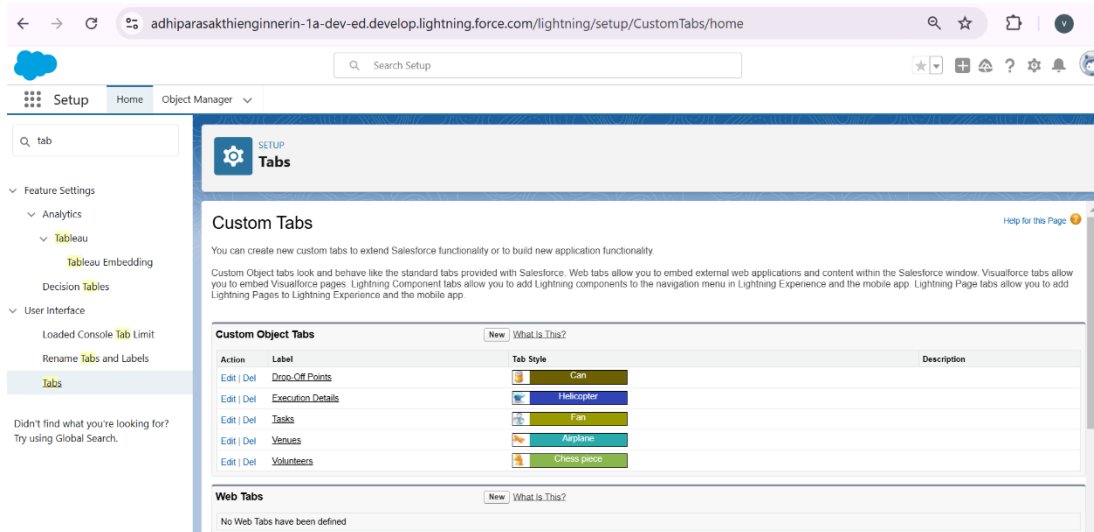
Requirement Gathering

1.Object:



The screenshot shows the Salesforce Lightning interface for the 'Tasks' object. The page title is 'Tasks' and it shows 'Recently Viewed' tasks. The tasks list includes: 1. veg burger, 2. burger, and 3. food. The page has a navigation bar with 'FoodConnect', 'Home', 'Venues', 'Drop-Off Points', 'Tasks', 'Volunteers', 'Execution Details', 'Reports', and 'Dashboards'.

2.Tabs:



The screenshot shows the Salesforce Lightning interface for the 'Custom Tabs' setup page. The page title is 'Custom Tabs' and it shows a list of custom object tabs. The tabs list includes: Action, Label, Tab Style, and Description. The tabs are: Drop-Off Points, Execution Details, Tasks, Venues, and Volunteers. The page has a navigation bar with 'Setup', 'Home', and 'Object Manager'.

3. Functional Requirements: Register and profile creation , Add food donation details (type, quantity, pickup time) ,View donation status and notifications.

4. Non-Functional Requirements: Performance, Security, Scalability, Usability, Reliability.

5. Data Requirements: Name, address, contact information, food type, average daily leftover quantity, pickup time slots.

6. Integration Requirements: Integration with notification services (e.g., SMS, email) to send timely alerts.

5. Testing and Validation

Testing:

1. Unit Testing:

- Test each custom object, field, and validation rule individually to ensure they function as expected.
- Verify data types, field lengths, and required fields.
- Test workflow rules and approval processes to ensure they trigger correctly and route tasks to appropriate users.
- Test custom formulas and calculations to verify accuracy.

2. System Testing:

- Simulate real-world scenarios to test the entire system's workflow.
- Create food donation records, assign them to NGOs, and track their status from pickup to delivery.

- Test mobile app functionality, including data synchronization and GPS tracking.
- Verify that notifications and alerts are sent to appropriate users at the right time.

3.Performance Testing:

- Measure system response time under different load conditions.
- Identify performance bottlenecks and optimize system performance.
- Test the scalability of the system to accommodate future growth.

Validation:

Data Validation:

- Validate data entered into the system to ensure it is accurate and complete.
- Implement data quality checks to identify and correct errors.
- Test data migration processes to ensure data is transferred correctly.

6.Key Scenarios Addressed by Salesforce in the Implementation Project

1. Efficient Food Donation Management:

- Real-time Tracking: Salesforce allows real-time tracking of food donations from the moment they are offered by restaurants to their final delivery to beneficiaries.

- **Automated Notifications:** Automated notifications are sent to restaurants, NGOs, and volunteers to keep everyone informed about donation status, pickup schedules, and delivery updates.
- **Centralized Platform:** A centralized platform provides a single source of truth for all stakeholders, improving coordination and reducing errors

2. Scalability and Flexibility:

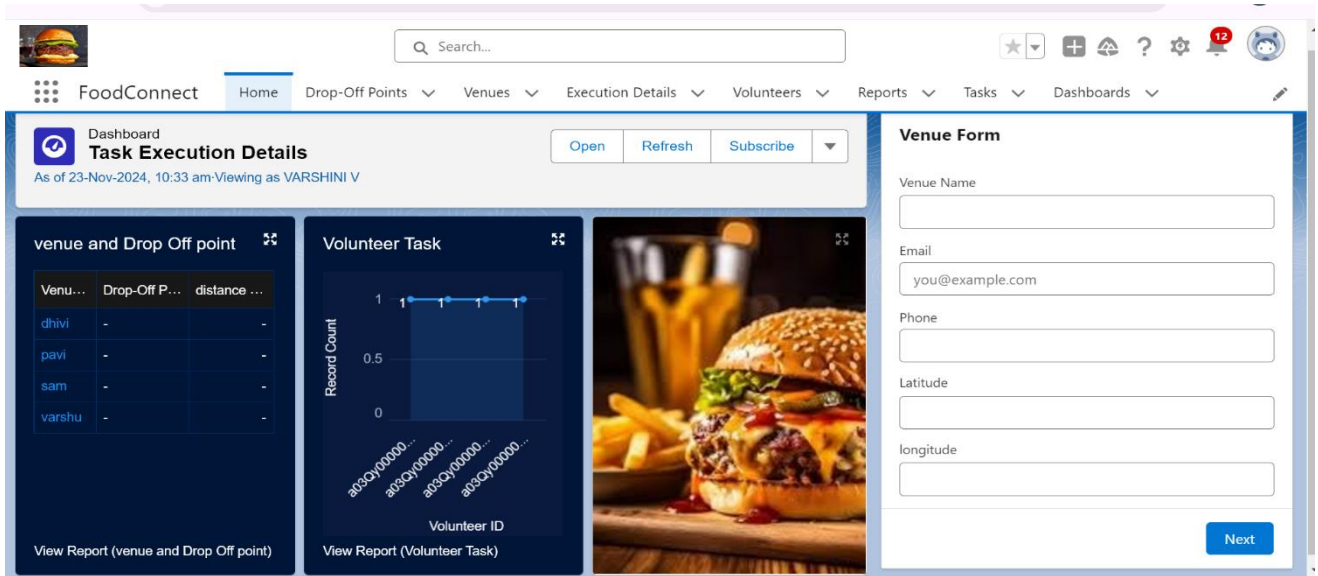
- **Scalable Platform:** Salesforce's scalable architecture can accommodate growth and expansion as the program expands to new areas and partners.
- **Customizable Solutions:** Salesforce's flexibility allows for customization to meet the specific needs of different organizations and regions.
- **Integration with Other Systems:** Salesforce can be integrated with other systems, such as inventory management and accounting software, to streamline operations.

7. Conclusion

Summary of Achievements:

The successful implementation of **Leftover Food Supply to Poor** a centralized platform in Salesforce to connect restaurants with excess food to NGOs and underprivileged individuals.

Output:



The screenshot displays the FoodConnect dashboard interface. At the top, there is a navigation bar with a search bar and various icons. Below the navigation bar, the main content area is divided into several sections.

Task Execution Details: This section shows a table titled "venue and Drop Off point" with columns for Venue, Drop-Off Point, and distance. The table lists four venues: dhivi, pavi, sam, and varshu, each with a corresponding Drop-Off Point and distance.

Venu...	Drop-Off P...	distance ...
dhivi	-	-
pavi	-	-
sam	-	-
varshu	-	-

Below the table, there is a button labeled "View Report (venue and Drop Off point)".

Volunteer Task: This section displays a line graph titled "Record Count" showing the number of records over time. The x-axis represents Volunteer ID, and the y-axis represents the Record Count. The graph shows a steady increase in the number of records over time.

Below the graph, there is a button labeled "View Report (Volunteer Task)".

Venue Form: This section contains a form for entering venue details. The form includes fields for Venue Name, Email, Phone, Latitude, and Longitude. A "Next" button is located at the bottom right of the form.