Project Title
"Food For All: Supplying Leftover Food to the Needy using Salesforce"

Abstract
This project leverages Salesforce technology to efficiently manage, track, and distribute leftover food to the underprivileged. The system connects food donors, volunteers, and NGOs, ensuring food reaches the needy on time while reducing food waste. Salesforce's powerful CRM capabilities are used to streamline communication, automate workflows, and generate insightful reports for continuous improvement.

Introduction

- Background:
  Food wastage is a global issue, and millions of people remain hungry despite the availability of surplus food. Initiatives like Naan Mudhalvan aim to empower individuals and organizations to solve pressing social problems using technology.
- Objective:
  To build a scalable solution using Salesforce that connects food donors (hotels, restaurants, events) with NGOs and volunteers to distribute surplus food effectively.

Scope

- Donors: Restaurants, hotels, event organizers, individuals.
- Beneficiaries: Underprivileged individuals and communities.
- Stakeholders: NGOs, volunteers, and government authorities.
- Technologies Used: Salesforce, Mobile Apps, and Google Maps API for geolocation services.

System Requirements

Functional Requirements

1. Donor Registration and Food Entry:
   - A portal for donors to register and log leftover food details (quantity, type, expiry time).
2. Volunteer and NGO Management:
   - A dashboard for volunteers/NGOs to view available food and assign tasks based on location.
3. Real-Time Notifications:
   - Automated notifications to volunteers and NGOs for available food nearby.
4. Food Delivery Tracking:
   - Tracking of food pickup and delivery in real time.
5. Feedback System:
   - A mechanism for donors, volunteers, and beneficiaries to provide feedback.
6. Reports and Analytics:

- Reports on food distribution, donor participation, and volunteer efforts.

Non-Functional Requirements

1. Scalability: To handle increasing donors and food requests.
2. Security: Secure donor and beneficiary data using Salesforce Shield.
3. Usability: Simple UI/UX for accessibility across diverse user groups.

System Architecture

Key Components

1. Salesforce CRM:
    - Manages donor data, volunteer assignments, and food distribution.
2. Salesforce App:
    - Mobile app for donors and volunteers to interact with the system.
3. Integration with Google Maps:
    - Displays real-time location data for food pickup and delivery.
4. Workflow Automation:
    - Automates notifications and assignment tasks using Salesforce Flow.

Modules Description

1. Donor Module

- Registration and profile creation.
- Food entry (type, quantity, location, and expiration time).

2. Volunteer Module

- View food availability based on location.
- Task assignment and completion tracking.

3. NGO Module

- Connect with volunteers and donors.
- Feedback and beneficiary tracking.

4. Admin Module

- Monitor all operations.
- Generate reports on food distribution metrics.

Implementation Plan

Phase 1: Planning and Requirement Gathering

- Identify key stakeholders.

- Define system architecture and workflows.

Phase 2: Salesforce Setup

- Configure Salesforce org and set up data models.
- Create custom objects: Donors, Food Details, Volunteers, and NGOs.

Phase 3: Development

- Build interfaces using Salesforce Lightning.
- Implement workflows and real-time notifications with Salesforce Flow.
- Integrate Google Maps API.

Phase 4: Testing

- Conduct user testing with donors, volunteers, and NGOs.
- Ensure data security and system reliability.

Phase 5: Deployment and Training

- Deploy the solution on the Salesforce platform.
- Provide training sessions for stakeholders.

Phase 6: Maintenance and Support

- Regular updates based on feedback.
- Monitor performance and scalability.

Technologies Used

- Salesforce Platform: Lightning Experience, Salesforce Flow, Salesforce Shield.
- Integration Tools: Google Maps API for location services.
- Analytics: Tableau CRM for dashboards and reporting.

Expected Outcomes

1. Reduction in food wastage.
2. Timely food delivery to needy individuals.
3. Enhanced collaboration among donors, volunteers, and NGOs.
4. Data-driven decision-making for improving future operations.

Conclusion

This project aligns with Naan Mudhalvan's mission to create sustainable and impactful solutions. By leveraging Salesforce, we aim to build an efficient and scalable system for addressing hunger and food waste, making a tangible difference in the community.