DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

NAAN MUDHAVALVAN- SALESFORCE REPORT

TO SUPPLY LEFTOVER FOOD TO THE POOR

PROJECT CREATED BY
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1.Project Overview

This project is designed to connect food donors with individuals and organizations in need by leveraging Salesforce as a platform to facilitate food distribution efficiently. The goal is to reduce food waste and provide leftover food to those in need by creating a seamless and scalable process for matching food donations with recipients.

2. Objectives

Business Goals: Develop a robust system that encourages food donations, tracks availability, and manages the logistics of food distribution.

Specific Outcomes:

- A streamlined interface for food donors to list available food items.
- Automated notifications to nearby recipients when food becomes available.
- Reports on the amount of food distributed and impact on the community.

3. Salesforce Key Features and Concepts Utilized

Custom Objects: Objects for tracking donations (e.g., Food_Donation__c, Donor__c, Recipient__c).

Apex Triggers: Automation for managing logistics, such as notifying recipients of new donations.

Process Automation: Use of Process Builder and Flows for automating donorrecipient matching.

Reports and Dashboards: Visualize food distribution metrics, track donations, and measure impact.

4.Detailed Steps to Solution Design

Data Models:

- Design entities like Food_Donation__c to represent donation records and link donors and recipients.
- Use fields to capture location, food type, quantity, and expiration details.

User Interface:

- Simple forms for donors to register food donations.
- A recipient dashboard to view nearby available food donations.

- **Business Logic**: Apex triggers or flows to send alerts when new donations are available nearby..

5. Testing and Validation

Unit Testing:

Apex classes and triggers related to notifications and data validations.

User Interface Testing:

Ensure smooth navigation for donors and recipients, validate donation matching.

6. Key Scenarios Addressed by Salesforce in the Implementation Project

Scenario 1: A donor registers a food donation; the system automatically sends notifications to nearby recipients.

Scenario 2: A recipient claims a donation, updating the record to track the food distribution.

Scenario 3: Generate reports showing the quantity and type of food donated overtime.

7. Conclusion

Summary of Achievements: This project has successfully implemented a system that enables leftover food donation and distribution. Salesforce automation has streamlined donation matching and tracking, making it easier for communities to reduce food waste and feed those in need.