REQUIERMENT PHASE

DATA FLOW AND DIAGRAM

Date   : 4 Nov 2025

Team ID   : NM2025TMID03861

Project Name   : To Supply Leftover Food to Poor

Maximum Marks: 4 Marks

DATA FLOW AND DIAGRAM:

Food Donors (e.g., restaurants, grocers) provide "Food Offers & Availability" to the platform.
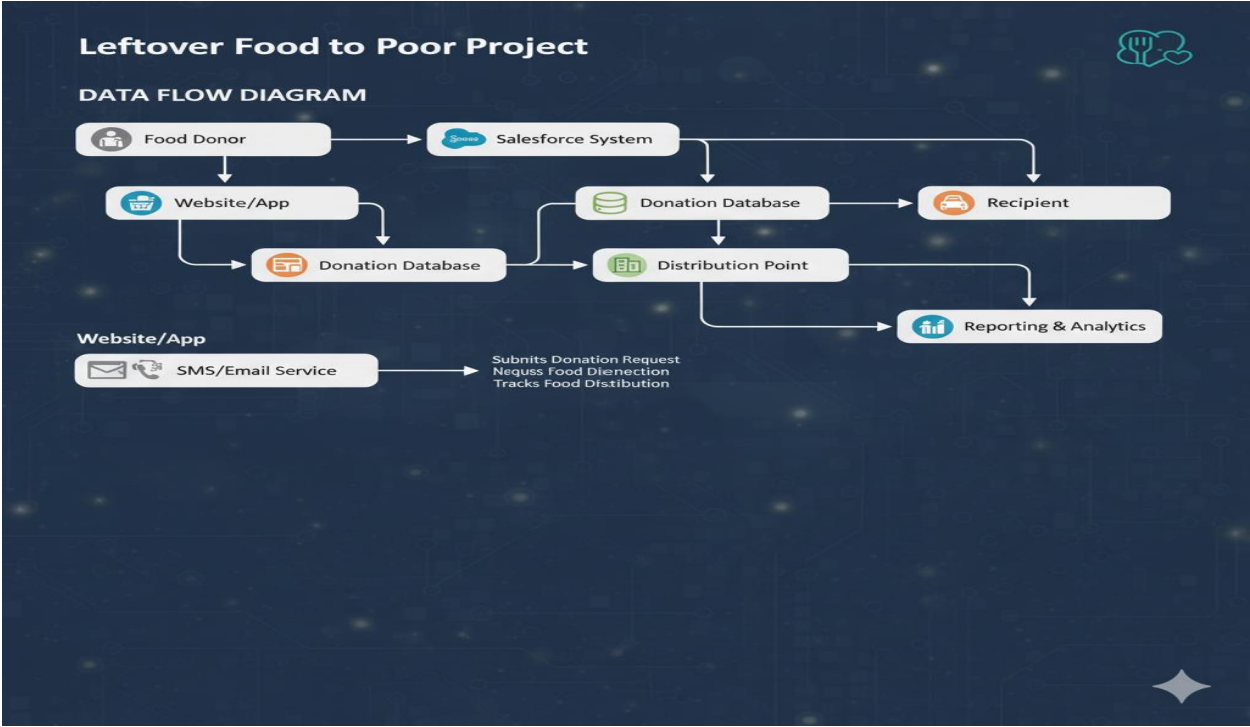
Food Recipients (e.g., charities, families) submit "Food Requests & Capacity" to the platform, indicating what they need and how much they can handle.

The platform then processes these inputs to create "Allocations & Delivery Info," notifying recipients of incoming food.

Volunteer Drivers receive "Optimized Routes & Tasks" based on their "Availability & GPS Data" to pick up donations from donors and deliver them to recipients. They also provide real-time updates back to the platform.

System Admins manage "System Configuration & Access" and generate "Reports" on platform activity and impact.

An external "Location Data" service provides geographical information for route optimization.

User Stories Table: Centralized Food Rescue & Delivery Network (Salesforce Project)

ID	Persona	User Story	Acceptance Criteria

ID	Epic	User Story	Acceptance Criteria
FS01	**Corporate & Local Food Donor**	As a **Corporate Food Donor**, I want to easily submit details of **batch food donations**, including item lists and quantities, so the system can prepare for large-scale logistics.	- Ability to create a "Batch Donation" record with multiple "Food Item" line items. - Fields for item description, quantity, weight, expiration date, storage requirements (e.g., frozen, refrigerated). - Option to upload a manifest or spreadsheet for bulk item entry.
FS02	**Corporate & Local Food Donor**	As a **Local Food Donor**, I want to quickly offer **ad-hoc surplus food** via a mobile app, so small, immediate donations can be captured.	- Mobile-responsive interface for "Quick Offer." - Minimal fields: Photo upload, food type, estimated servings, best pickup time. - GPS integration to auto-populate donor location.
FS03	**Corporate & Local Food Donor**	As a **Food Donor**, I want to receive **scheduled delivery alerts** with details of the assigned volunteer/driver and estimated arrival, so I can prepare the food for handover.	- Automated email/SMS notification 30-60 minutes before pickup. - Notification includes driver's name, contact, vehicle type, and estimated time of arrival (ETA). - Dashboard view of "Pending Pickups" with real-time status updates.
FS04	**Corporate & Local Food Donor**	As a **Food Donor**, I want to receive **delivery confirmations** and a digital record of my donation, so I have proof of contribution for internal tracking or tax purposes.	- Automated email/in-app notification upon successful pickup/delivery to the hub/recipient. - A downloadable PDF "Donation Receipt" with donor, items, quantities, date, and recipient.
VV01	**Diverse Volunteer Network**	As a **Delivery Volunteer**, I want to easily sign up for available delivery slots and see optimized routes on my mobile device, so I can efficiently transport food.	- Volunteer portal/app to view and claim available "Delivery Tasks." - Integration with mapping services (e.g., Google Maps) for turn-by-turn directions. - Mobile form to confirm pickup and drop-off.
VV02	**Diverse Volunteer Network**	As a **Food Safety Inspector Volunteer**, I want to submit inspection reports for incoming food at the central hub using a tablet, so we ensure all food meets safety standards.	- Tablet-optimized Salesforce Flow or custom component for "Food Inspection Report." - Fields for temperature logs, visual inspection notes, expiry checks, and pass/fail status. - Ability to attach photos of inspected items.

V V 0 3	**Divers e Volunt eer Networ k**	As a **Volunteer**, I want to view my past activities and contributions (e.g., hours volunteered, miles driven, inspections completed), so I can track my impact.	- Personal "Volunteer Dashboard" showing total hours, number of deliveries/inspections, estimated food value handled. - Export option for volunteer activity log.
R I 0 1	**Registe red Individ uals & Familie s**	As a **Registered Individual/Family**, I want to indicate my household size, dietary restrictions, and preferred delivery window, so I receive appropriate food packages.	- User profile includes fields for "Household Size," "Allergies/Dietary Needs," "Preferred Delivery Times." - Ability to update this information easily.