NAAN MUDHALVAN PROJECT REPORT

SB8067 - SALESFORCE DEVELOPER
“TO SUPPLY LEFT OVER FOOD TO POOR“

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DESIGN PHASE – Leftover Food Supply to Poor (Salesforce Platform)

1. System Architecture Design (How the system will work)

1. **Donor submits leftover food details** (location, contact, food info)
2. **Data is stored in Salesforce Custom Object**
3. **Distance is auto-calculated & stored using Trigger**
4. **Nearest volunteer gets access through Sharing Rules**
5. **Admin monitors all activity through Dashboard & Reports**
6. **Food is collected and distributed to needy people on time**

2. Data Model Design

Custom Object

Object	Purpose
Drop-Off Point	Stores donor details, location, food info, distance

Important Fields

Field Name	Data Type	Purpose
Donor Name	Text	Name of person donating food
Contact Phone	Phone	To contact the donor
Food Details	Text Area	Type/quantity of food
Drop Location	Text / Geolocation	Address or location
Distance Calculation	Number/Formula	Calculates distance
Distance	Number	Stored distance value for sharing rules

3. UI (Screen) Design Using Screen Flow

The form shown to users will contain:

- ✅ Venue / Donor Name
- ✅ Email
- ✅ Phone
- ✅ Location
- ✅ Latitude & Longitude

This will allow anyone to easily submit donation information.

4. Automation Design

Automation	Tool	Purpose
Copy calculated distance into Distance field	**Apex Trigger**	Used for location-based sharing
Data entry form	**Flow Builder (Screen Flow)**	Easy UI for donors
Role-based data access	**Sharing Rules**	Nearest volunteer gets priority
Data visualization	**Reports & Dashboards**	Monitor donations & distribution

5. Trigger Logic Design

When a new drop-off record is created:

➞ Take the value from *Distance Calculation* field.

➞ Store it into *Distance* field.

➞ So sharing rules can use it to assign need-based access.

6. Security & Access Design

Security Layer	Method
Who can see donor data	Sharing Rules based on distance
Data protection	Role & object permissions
System access	Salesforce login authentication

7. Dashboard & Visualization Design

Dashboard will show:

- Total food donations.
- Nearest drop-off locations.
- Number of people helped.
- Active volunteers.
- Real-time distribution status.

Charts used:

- Bar chart → Donations by area.
- Pie chart → Food type distribution.
- List → Recent drop-off points.

8. User Experience Design Goals

✓ Simple form for donors.
✓ Fast food distribution.
✓ Location-based volunteer assignment.
✓ Less food wastage.
✓ More social impact.