

NAAN MUDHALVAN PROJECT REPORT

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

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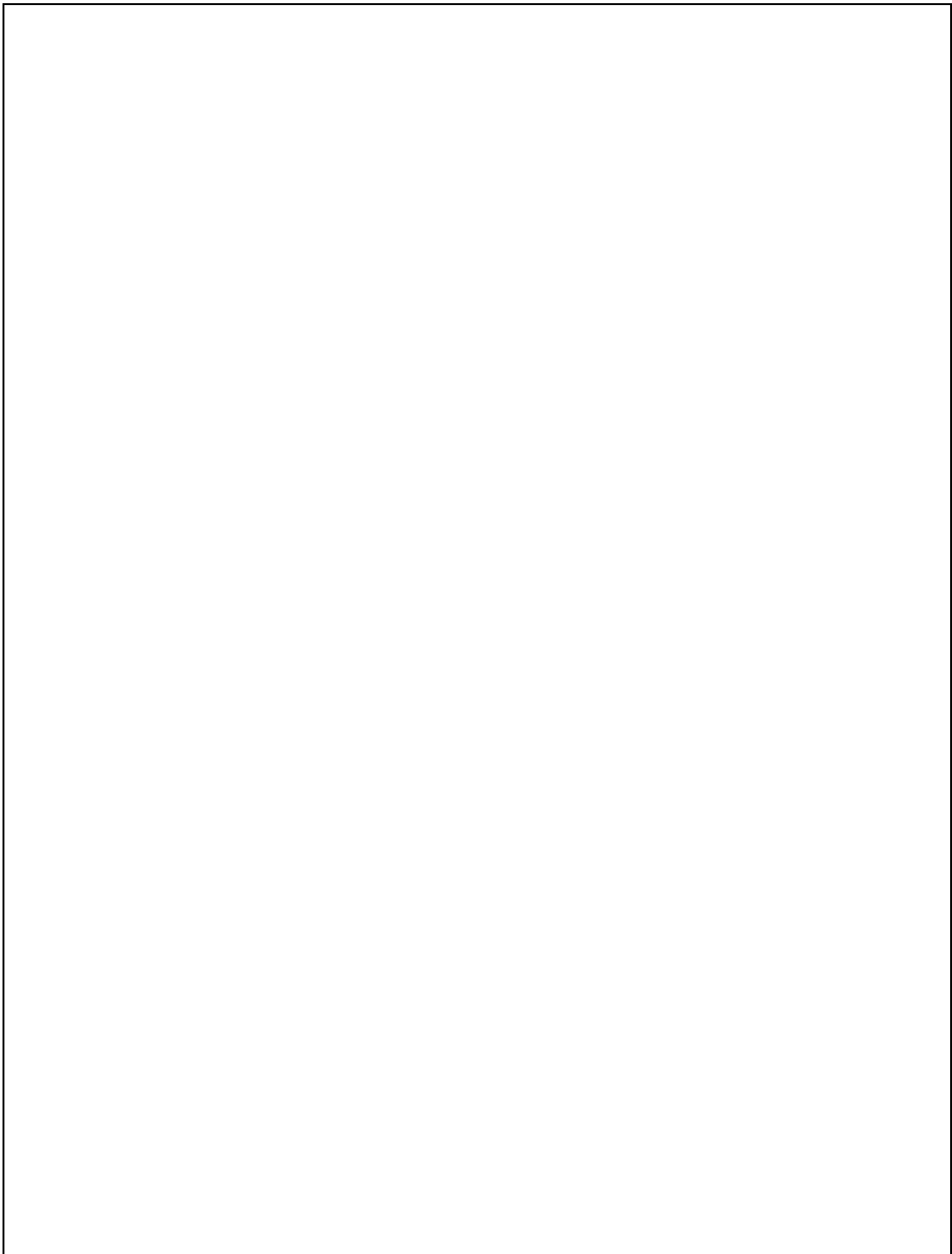
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DESIGN PHASE – Leftover Food Supply to Poor (Salesforce Platform)

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
		Stores donor details, location, food info,
Drop-Off Point	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
		Stored distance value for sharing rules
Distance	Number	

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.