# DonarLink – Disaster Relief & Donation Distribution Tracker

## Introduction

Disaster relief operations often face problems like delayed aid, lack of proper donation tracking, and mismanagement of supplies. DonarLink is a Salesforce-based system created to solve these issues.  
  
It allows organizations to track donations, manage supplies, assign volunteers automatically, monitor distributions, and view real-time dashboards. The goal is to make relief operations faster, transparent, and well-organized.

## Problem Statement

Currently, disaster relief operations are handled manually using spreadsheets and phone calls. This causes:  
- Delayed supply distribution.  
- Volunteers not being used properly.  
- Poor visibility for management.  
- Risk of excess or shortage of relief items.

## Objectives

DonarLink solves these by:  
- Centralizing all data (donors, supplies, volunteers, distributions).  
- Automating volunteer assignment.  
- Sending alerts for low supplies.  
- Providing dashboards for real-time decisions.

## Key Features

1. Donor Management – Store donor details, type of donation, and amount.  
2. Supply Management – Track items, quantity, supplier, and expiry dates.  
3. Volunteer Management – Record volunteer details, auto-assign tasks, update availability.  
4. Distribution Tracking – Record where supplies go, how much, and who delivered.  
5. Automation & Alerts – Auto-assign volunteers, send low-stock alerts.  
6. Reports & Dashboards – Visual charts for donations, supplies, and volunteer activities.

## Technology Stack

- Salesforce Developer Edition (Lightning Experience)  
- Custom Objects & Relationships  
- Flows & Apex Triggers for automation  
- Reports & Dashboards  
- Lightning App Builder for UI

## Benefits

- Faster and fairer relief distribution.  
- Better volunteer management.  
- Transparency for donors and management.  
- Reduced manual errors.  
- Real-time decision-making.

## Where to Add Screenshots

1. Org Setup & Configuration (Phase 2)  
 - Salesforce Home Page (Developer Edition).  
 - Company Info setup.  
  
2. Data Modeling & Relationships (Phase 3)  
 - Object Manager showing 4 custom objects.  
 - Schema Builder with Donor, Supply, Volunteer, Distribution.  
  
3. Process Automation (Phase 4)  
 - Flow (auto-assign volunteer).  
 - Validation Rule.  
  
4. Apex Programming (Phase 5)  
 - Trigger in Developer Console.  
 - Handler Class code.  
  
5. UI Development (Phase 6)  
 - DonarLink App with Tabs (Donors, Supplies, Volunteers, etc.).  
 - Record Page Layout (Distribution record with assigned volunteer).  
  
6. Reports & Dashboards  
 - Donation Pie Chart.  
 - Supply Bar Chart.  
 - Volunteer Availability Report.  
  
7. Testing Phase  
 - Creating a Distribution record.  
 - Volunteer auto-assigned after save.