

Project Overview

The **Chicago Free-Food Network (CFFN)** is a prototype information system designed for a mock nonprofit organization responding to a SNAP benefits pause in Chicago. The system enables staff and volunteers to manage donors, food inventory, recipients, and distribution events, while also allowing community members to submit local food resources such as pantries, fridges, or meal programs.

This document supplements the online portfolio by providing detailed visuals, schema annotations, and reporting examples. While the portfolio highlights key screenshots, this summary offers deeper context and technical detail.

Core System Roles

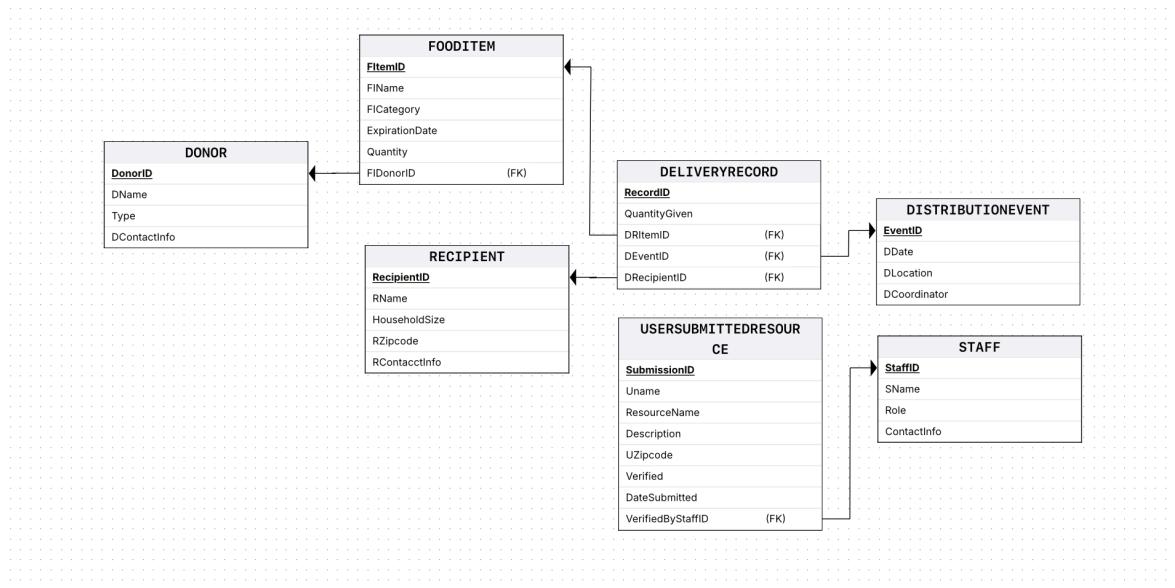
- **Donors** – contribute food items and track donations.
- **Recipients/Households** – register for aid and receive distributions.
- **Staff/Volunteers** – manage data entry, inventory, and reports.
- **Community Users** – submit local food resources and descriptions for staff to verify.
- **Administrators** – oversee the database, verify submissions, and run reports.

Key Features

- **Donor & Inventory Management** – record donor details and track food items by category, expiration date, and quantity.
- **Recipient & Distribution Tracking** – register households and record delivery or pickup events.
- **Community Resource Submissions** – allow users to submit local resources with descriptions and zip codes, verified by staff.
- **Reporting & Analysis** – identify top donors, high-demand areas, and generate printable reports for grant tracking.
- **User-Friendly Interface** – navigation form provides quick access to all forms and reports.

Relational Schema

- Defines the structure of the CFFN database.
- Shows relationships between donors, recipients, food items, and distribution events.
- Demonstrates planning and normalization of tables for efficient data management.



Navigation Form

- Main menu interface for staff and volunteers.
- Provides quick access to donor, food item, recipient, and community resource forms.
- Designed for usability and intuitive navigation.

The screenshot shows a navigation form interface. At the top, there is a header bar with a logo and the title "Navigation Form". Below the header, there is a horizontal tab bar with four tabs: "Form 1 - DonorEntry" (selected), "Form 2 - FoodItemEntry", "Form 3 - RecipientEntry", and "Form 4 - UserSubmittedResource". The main content area is titled "Form 1 - Donor Entry". It contains the following fields:

- DonorID: A numeric input field containing "1".
- Full Name (E.g., John Doe): A text input field containing "Hyde Park Grocers".
- Type (business, non-profit, individual): A dropdown menu currently set to "Business".
- Contact Information (Email or Phone Number): A text input field containing "773-555-4012".

Query 1 - Donations by Donor

- Summarizes contributions by donor name, type, category, and total quantity.
- Helps staff identify top donors and track inventory trends.
- Demonstrates functional queries for analysis and reporting.

DName	FirstOfDType	FICategory	SumOfQuant
Greater Chicago Food Depository	Organization	Produce	60
Hyde Park Grocers	Business	Canned Goods	120
Hyde Park Grocers	Business	Dairy	40
Lincoln Square Pantry	Non-Profit	Dry Goods	80

Report 1 - Donations by Donor

- Printable report showing detailed donations and summary statistics.
- Useful for grant tracking and community reporting.
- Highlights the system's ability to generate professional, shareable outputs.

REPORT 1 - DonationsByDonor			
DName	FIName	FICategory	Quantity
Greater Chicago Food Depository	Fresh Apples	Produce	60
Summary for 'DName' = Greater Chicago Food Depository (1 detail record)			
Sum			60
Standard			###
Hyde Park Grocers	Whole Milk	Dairy	40
	Canned Beans	Canned Goods	###
Summary for 'DName' = Hyde Park Grocers (2 detail records)			
Sum			###
Standard			33%
Lincoln Square Pantry	Rice Bags	Dry Goods	80
Summary for 'DName' = Lincoln Square Pantry (1 detail record)			
Sum			80
Standard			###
Grand Total			###