

Food Donation System Report

Summary:

This project is a website built using JavaScript, Node.js, Express, HTML, and CSS, with a MySQL database. The system facilitates food donation operations for organizations like restaurants and shelters. It allows users to add and view restaurants, volunteers, food items, schedule donation pickups, view upcoming expiring food items, and update delivery locations for scheduled pickups. The database has prepopulated tables where the users interact through a graphical user interface that has nice styling, live updates, and formatted data display. All the data interactions happen through SQL queries sent to the backend and use the DAO design pattern. It is tested and runs smoothly on Chrome.

Key SQL Statements:

- Insert a new restaurant
 - INSERT INTO Restaurant (Name, Address, ContactEmail)
VALUES (?, ?, ?);
- Insert a new volunteer
 - INSERT INTO Volunteer (Name, Phone, Email)
VALUES (?, ?, ?);
- Insert a new food item
 - INSERT INTO FoodItem (Name, ExpiryDate, Quantity, RestaurantID)
VALUES (?, ?, ?, ?);
- Insert a new donation pickup
 - INSERT INTO DonationPickup (PickupDate, DeliveryLocation, FoodItemID, VolunteerID)
VALUES (?, ?, ?, ?);
- Update pickup location
 - UPDATE DonationPickup
SET DeliveryLocation = ?
WHERE PickupID = ?;

- Report: Food items expiring in next 7 days
 - `SELECT * FROM FoodItem`
`WHERE ExpiryDate BETWEEN CURDATE() AND DATE_ADD(CURDATE(),`
`INTERVAL 7 DAY);`

Demo Video Link:

https://youtu.be/KwCzyleCcl4?si=RmI_Y_gvLYO6Ze1g

Web References:

<https://w3schools.com/> – Frontend