

-Group 2-

Food Bank Booking System

Reduce Waste. Make Giving Easier.

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NT\$400 Billion

The annual economic loss from 3.8 million tons of wasted food.

On one side: Massive Waste



**NT\$400 Billion
Lost Annually**

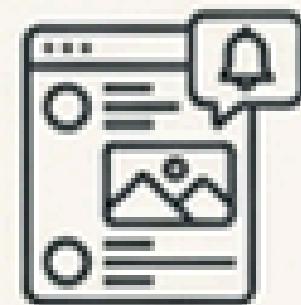


On the other: Unmet Need



**260,000 low-income
households struggling
for stable meals.**

Why is Helping So Hard? The Old Way is Broken.



Scattered Info:

Updates are easily missed
in cluttered groups.



No User Choice:

Bureaucratic distribution
lacks flexibility and dignity.



Slow Coordination:

Phone hotlines are slow and
require manual effort.

Our Solution: The "Uber Eats" Model for Food Banks



- ✓ **Single Unified Platform:** Instant access to all information.
- ✓ **Interactive Map:** Find nearby locations fast.
- ✓ **Self-Service Booking:** Reserve food with no phone calls needed.

A System Designed for Everyone



Users

Find surplus food from nearby shops.

Map Lookup → Browse Items → Book Pickup



Merchants

Easily list surplus items and manage orders.

Create Account → List Items → Mark Complete

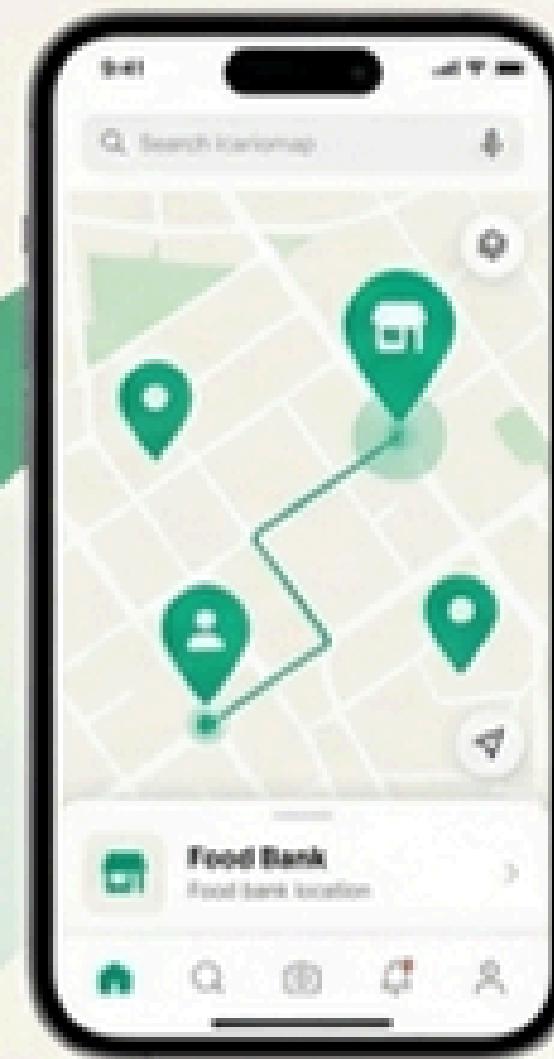


Admin

Monitor the entire ecosystem.

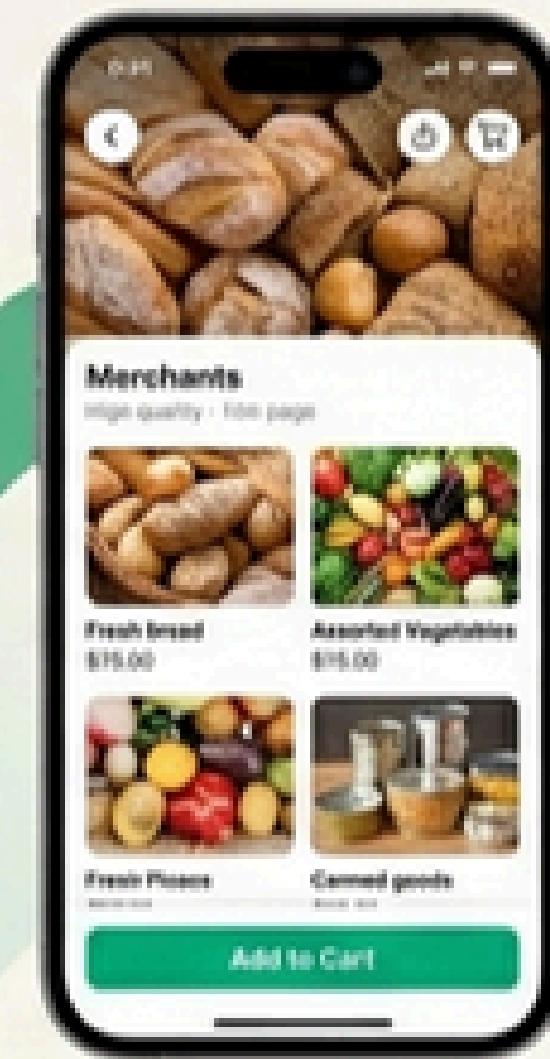
Dashboard Stats → Manage Users & Merchants

The User Journey: Finding Help in a Few Clicks



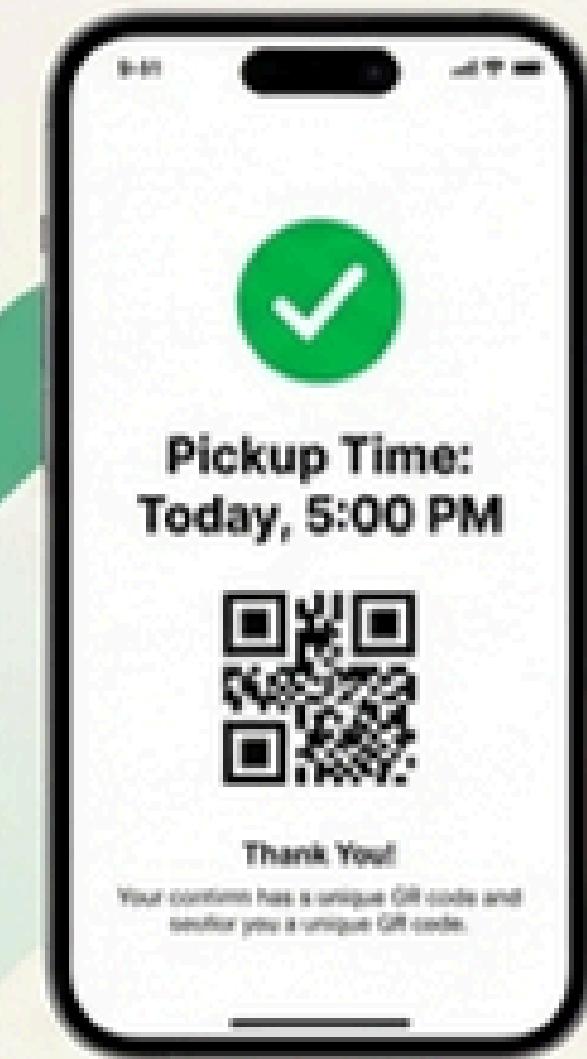
Step 1

Browse nearby locations on an interactive map.



Step 2

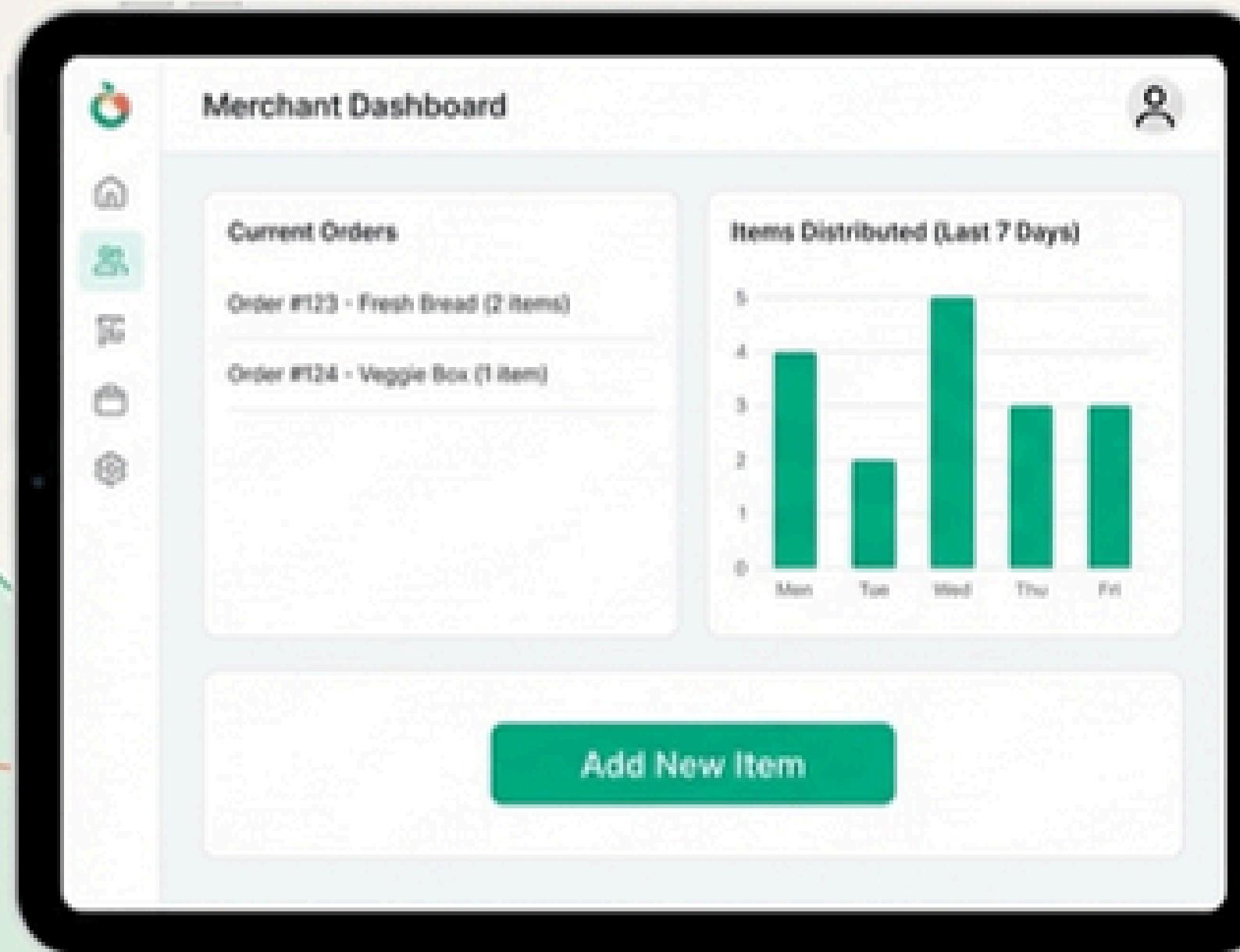
View available food items and add to cart.



Step 3

Book a pickup time and receive a confirmation.

Empowering Merchants to Eliminate Waste



- Simple Item Listing: Quickly upload surplus food details.
- Real-Time Order Management: Track bookings as they come in.
- Clear Completion Flow: Easily mark orders as picked up.

Built with Proven, Modern Technology



For a flexible and powerful back-end.



For reliable and scalable data management.



For a responsive and clean user interface.



For lightweight, interactive mapping.

Our Development Journey: Challenges and Breakthroughs

Main Challenges

 Complex Map Integration
(Leaflet.js)

 Shopping Cart & Inventory
Logic

 Multi-Role Authentication
System

How We Solved It

 AI-Assisted Development:
Used AI guidance to solve
problems faster and
accelerate coding.

 Automated Testing:
Implemented Unit and
Integration tests to ensure
system reliability.

The Road Ahead: Evolving the Platform

Password Reset & Email Notifications

Enhance user account security and communication.

Dedicated Donor Role

Create a new user type for individuals or organizations who want to donate food directly.

Firebase Integration

Leverage Firebase for more robust real-time features and notifications.





Food shouldn't
be wasted.

Helping shouldn't
have barriers.