

Mealflo Hackathon Writeup

A food support delivery app that turns requests, meal inventory, volunteer capacity, and delivery constraints into safer routes.



PROBLEM

Track chosen and problem tackled

We chose Track 2: Food Security Delivery Operations. We tackled the coordination problem faced by volunteer-led food delivery programs that manage food requests, meal inventory, volunteer availability, allergies, accessibility constraints, cold-chain needs, routes, and delivery status across forms, spreadsheets, messages, phone calls, and memory.

Mealflo reduces that burden by making requests, constraints, routes, driver assignments, and delivery progress visible in one place.



WORKING WEB APP

What we built

We built Mealflo, a working web app for coordinating food support delivery operations. It connects public intake, coordinator operations, and a phone-first volunteer driver experience, backed by a database layer, map-based routing, inventory awareness, and OpenAI-assisted parsing for intake and inventory workflows.



Public intake

Recipients request food support and volunteers offer to deliver. Mealflo captures address, meal count, timing, dietary needs, allergies, mobility constraints, vehicle access, and cooler capacity.



Coordinator dashboard

Coordinators review intake, approve structured drafts, check inventory, generate routes, assign drivers, and monitor progress from one operational view.



Volunteer driver view

Drivers choose availability, accept a suggested route, see each stop with delivery notes and meal details, follow the map, and mark stops complete.

How a frontline operator would use it on a real Monday morning

A frontline coordinator opening Mealflo on a busy Monday can move from scattered information to an actionable delivery plan.

1 Review new requests

Instead of searching through emails, forms, spreadsheets, and messages, the coordinator sees incoming requests with address, meal count, urgency, dietary needs, allergies, mobility needs, and delivery notes.



2 Approve structured intake

Mealflo helps turn intake messages into structured drafts. The coordinator reviews the original request, checks parsed details, and approves delivery work.



3 Check meals and drivers

The coordinator sees which meals are ready and which volunteers are available, including time windows, vehicle access, cooler capacity, stair comfort, and other limits.



4 Generate routes

Deliveries are grouped into route suggestions based on urgency, inventory, location, driver capacity, and food requirements. The coordinator assigns a driver and confirms what to load.



5 Guide the driver

The driver mobile view shows the next stop, address, meals to deliver, delivery notes, map guidance, and a simple completion action.



6 Track completion

As stops are completed, the dashboard updates so the coordinator can see what is out for delivery, complete, delayed, or needing follow-up without calling every driver.



LIVE MAP

Delivery coordination snapshot



0 active Updates as stops complete

READY TODAY

Coordinator view

Client	Urgency	Meals
Mabel Hart	9	2
Keisha Noor	9	2
Noel Okafor	9	3
Priya Sandhu	9	3

[View all](#)



Intended result

Mealflo gives frontline coordinators a calmer operating rhythm: requests, constraints, meal availability, routes, driver updates, and follow-up actions are visible in one place.

NEXT RELEASE

What we would ship next with one more week

With one more week, we would focus on making Mealflo easier to use in real community operations.

01



Additional intake channels

Food support requests often come through Instagram, Facebook, text messages, voicemail, email, or direct messages rather than a formal web form. We would add more intake channels so teams can capture requests from the places people already use.

02



Real SMS communication

Drivers need simple, reliable communication during deliveries. We would add real text messaging from the driver flow, including pre-written messages like: "Hi, this is your meal delivery driver. I'm outside now."

03



Field testing with a real organization

We would work with a real food support organization to test Mealflo against actual intake patterns, route constraints, volunteer workflows, and communication needs, so the next version is shaped by frontline reality instead of demo assumptions.

MEALFLO IN ONE LINE

Mealflo turns food support requests, meal inventory, volunteer capacity, and delivery constraints into safer routes and a clearer delivery workflow.

Requests

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Routes

–

Delivery