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Grandma's POS & franchise operations

OVERVIEW

Sales, stock, and branch operations brought into one system that keeps working when the connection drops.

ROLE	Solo full-stack developer
PERIOD	October 2025-May 2026
STATUS	Deployed on Cloudflare Workers

THE PROBLEM

A food-service business needed to coordinate sales, ingredients, orders, and access across locations without relying on fragmented spreadsheets or a constant internet connection.

FIND AND ORDER SUPPLIES FOR A SELECTED BRANCH

1. Select the branch that is placing the supply order.
2. Search the raw-material catalog for the items needed.
3. Set quantities and review the order before submitting it.

WORK DELIVERED

- Built an offline-capable POS with automatic synchronization when connectivity returns.
- Connected product recipes to ingredient deductions and stock movement.
- Added branch-scoped access, order history, payment verification, and configurable roles.

WHAT THE WORK ENABLES

- Sales can continue during internet outages.
- Recipe-based stock deduction replaces manual updates.
- Staff and managers share a traceable order and inventory workflow.

CONSTRAINTS

The system needed to support busy counters, multiple locations, and unreliable connectivity. Each role needed access appropriate to its work.

IMPLEMENTATION DETAILS

Designed and built end to end, with local IndexedDB storage for offline sales and a Cloudflare Workers/D1 backend. The platform also includes internal communication, audit history, and more than 30 configurable permissions.

TOOLS AND TECHNOLOGIES

SvelteKit | TypeScript | Hono | Cloudflare Workers | Cloudflare D1 | IndexedDB | Dexie.js | Google Drive API

DETAILED CASE STUDY

I built a branch-aware operations platform for a food-service business that needed point-of-sale, inventory, supply orders, and staff access to work across locations, including when internet connectivity was unreliable.

01 / THE PROBLEM

Daily operations crossed branches and workflows

This was more than a checkout screen. Staff needed to process sales, manage ingredients, move supplies between locations, verify payments, and hand work over through preparation and pickup. Branches also needed their own users, stock, and reports.

The system had to remain useful through internet outages and replace manual coordination across spreadsheets and separate operational tools.

02 / THE APPROACH

Treat offline use and branch context as core requirements

I built the point-of-sale client to store sales locally with IndexedDB and Dexie, then synchronize them with the backend when connectivity returns. User sessions are scoped to a branch so staff work with the location's own operational context.

I organized supply orders around a traceable lifecycle: create the order, review and verify payment, prepare it, confirm pickup or receipt, and retain an activity log. A custom transaction wrapper keeps multi-step backend operations atomic.

03 / THE SOLUTION

Connect sales, stock, orders, and access control

I built the application with SvelteKit, TypeScript, and Hono, backed by Cloudflare Workers and D1. Product recipes connect sales to ingredient deductions; branch staff can manage supply orders, attach payment proof, and follow preparation and receiving status.

The wider system includes audit logs, order chat, inventory and production tools, and configurable roles with more than 30 permissions. Payment-proof files are queued locally and synchronized to Google Drive through its API in the background.

04 / WHAT CHANGED

One deployed platform supports the branch workflow

The application is deployed on Cloudflare Workers. Its documented capabilities include offline sales with later synchronization, recipe-based stock movement, branch-scoped operations, payment verification, configurable access, and an order history staff can trace.

The screenshots show the branch selector, supply-order and payment-verification screens, preparation progress, order logs, and role management.

A USEFUL PLACE TO START

What is slowing your business down?

[Schedule a call](#)

Tell me about the workflow, the friction, and what a better version would look like.

TO GOD BE THE GLORY!

And we know that all things work together for good to them that love God, to them who are the called according to his purpose.

- Romans 8:28