



Visit here

413 custom POS & internal operations tools

OVERVIEW

Built custom point-of-sale systems and internal tools for 413 Cafezinho Premium and Grandma's Sandwich, connecting counter activity with stock, reporting, and administration.

ROLE	Solo full-stack developer
PERIOD	March 2025-April 2026
STATUS	Operational systems deployed on Cloudflare Workers

THE PROBLEM

Two food-service brands needed software shaped around their own operating routines. Counter sales, products, ingredients, shifts, branch operations, and reporting had to fit the business workflow, while internal teams also needed tools to replace spreadsheet handoffs.

CONNECT A COUNTER SALE TO STOCK AND MANAGEMENT REVIEW

1. Staff create and record sales in the brand's point-of-sale workflow.
2. Product and ingredient operations connect transactions to inventory activity.
3. Managers use shift reports, inventory dashboards, and administrative tools to review and coordinate work.

WORK DELIVERED

- Built 413 Cafezinho Premium POS and Grandma's Sandwich POS as solo full-stack projects.
- Deployed the applications using SvelteKit, Cloudflare Workers, and D1.
- Delivered inventory dashboards, reporting utilities, and admin panels that replaced manual spreadsheet workflows.
- Added offline-capable sales and automatic synchronization for Grandma's Sandwich operations.

WHAT THE WORK ENABLES

- Staff can use custom POS workflows designed around each brand's service needs.
- Product, ingredient, inventory, shift, and reporting tasks connect to the relevant sales workflow.
- Grandma's Sandwich POS can retain sales locally while offline and synchronize when connectivity returns.
- Internal dashboards and admin tools reduce reliance on manual spreadsheet handoffs.

CONSTRAINTS

The systems needed to fit fast counter work and differing brand workflows. Grandma's Sandwich also needed an offline path for sales, while internal tools had to be practical for staff and managers to use during daily operations.

TECHNICAL IMPLEMENTATION

Designed and built the applications end to end with SvelteKit and TypeScript, using Cloudflare Workers and D1 for the deployed systems. Grandma's Sandwich uses Dexie.js and IndexedDB for local sales storage and synchronization after connectivity returns. The wider delivery included inventory, reporting, and administration tools. The 413 Cafezinho public storefront was later retired while its internal POS remained in use.

PLATFORMS & TECHNOLOGIES

SvelteKit | TypeScript | Cloudflare Workers | Cloudflare D1 | IndexedDB | Dexie.js | Point-of-sale and inventory workflows

DETAILED CASE STUDY

I built custom POS systems and internal tools for 413 Cafezinho Premium and Grandma's Sandwich. The work connected counter sales with inventory, shift reporting, branch workflows, and administration, using applications designed around each brand's day-to-day operations.

01 / THE OPERATIONAL NEED

Each brand needed software that matched its daily work

Cafezinho needed employee-facing sales and shift workflows alongside products, ingredients, and end-of-day reporting. Grandma's Sandwich needed POS, branch operations, stock movement, supply orders, and role-specific staff access.

The broader software role also included inventory dashboards, reporting utilities, and admin panels that replaced manual spreadsheet workflows. One generic screen could not express both brands' processes.

02 / THE APPROACH

Build around counter work, shifts, branches, and connectivity

I developed both systems end to end with SvelteKit and TypeScript, deploying them on Cloudflare Workers with D1. Cafezinho's POS connects order handling, payment, shift activity, product and ingredient management, and end-of-day reports.

For Grandma's Sandwich, offline use was a core requirement. The client stores sales locally with IndexedDB and Dexie.js and synchronizes them when the connection returns; branch context, supply orders, payment verification, and permissions support the wider workflow.

03 / SYSTEMS AND INTERNAL TOOLS

Bring sales, stock, and management work into purpose-built applications

The Cafezinho system combines counter sales with products, ingredients, shift logs, payment activity, and reporting. Its public storefront has since been retired, while the internal POS remains in use.

Grandma's Sandwich has an offline-capable POS and broader branch operations platform. Inventory dashboards, reporting utilities, and admin panels extend the work beyond checkout and replace spreadsheet handoffs.

04 / WHAT CHANGED

Operational tasks now follow connected digital workflows

Staff and managers have custom applications for sales, inventory, reporting, and administration. Grandma's Sandwich can keep recording sales while offline and sync them after connectivity returns.

The delivery included two deployed POS systems and internal tooling that replaced manual spreadsheet processes. Separate case studies describe the Cafezinho and Grandma's Sandwich products in more detail.

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