

GalgaXpert

Websites and apps, built in South Africa.

Software Catalogue

Systems we have designed, built and maintain end to end. These are our own products and working demos — not client case studies. Every claim in this document is checkable against the running software.

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Franchise Ordering Platform

Built end-to-end · running on a demo brand

A white-label online ordering, kitchen and delivery platform for South African restaurant franchises — the brand, the customers and the data all stay with the franchise.

THE PROBLEM

Selling through aggregators costs a franchise 15–30% commission per order, moves customers off its own domain at the moment they order, and leaves order history accumulating in a system the brand cannot see — which under POPIA is still its responsibility.

Who it is for: Restaurant franchises and multi-store groups

WHAT IT DOES

- Branded storefront on the franchise's own domain, with guest checkout
- Menu engine — categories, sizes, bases and toppings, priced per store
- Delivery zones with address geocoding, and live order tracking for the customer
- Kitchen display system per store — paid orders arrive in real time
- Driver dispatch, delivery management and a live driver map
- Head-office dashboard covering the whole chain, with sales reports
- Per-store trading hours, busy mode and central brand control
- Role-based access for owner, manager and kitchen, with a full audit trail

ENGINEERING DETAIL

- Shared-schema multi-tenant, with tenant isolation covered by its own integration tests
- Three separate JWT audiences — staff, customer and driver each get their own scheme
- 284 integration tests across 38 files, driving the real HTTP API end to end
- POPIA customer data export and erasure are endpoints with tests, not a policy document
- Ozow instant EFT, priced in Rand; payment credentials encrypted before they are stored

BUILT WITH

Angular 19 · .NET 10 · PostgreSQL 16 · Clean Architecture · Docker · Ozow

More detail: galgaxpert.co.za/franchise-platform/

ClearBDX

Working build · demo data

Bordereaux processing for South African UMAs and short-term insurance brokers — messy partner spreadsheets in, clean insurer-ready output and a full audit trail out.

THE PROBLEM

A UMA receives bordereaux from many partners on different schedules, in inconsistent Excel, CSV and PDF layouts. Reconciling them by hand is slow, error-prone, and leaves nothing an insurer or auditor can trace back to the file it came from.

Who it is for: Underwriting management agencies and short-term insurance brokers

WHAT IT DOES

- One pipeline end to end: upload → map → normalise → validate → reconcile → sign-off → export
- Column mapping with reusable per-partner templates and drift detection when a partner changes format
- AI-assisted mapping suggestions that are deterministic-first and never auto-apply below a confidence threshold
- Validation against binder rules, with exceptions grouped by type and severity, assignable and resolvable
- Data lineage on every line item — raw value, the transform applied, and the canonical result
- Reconciliation of totals against binder terms, with variance drill-down
- Approval and sign-off that locks a submission once decided
- Immutable, searchable audit log and admin CRUD for partners, binders, fields, rules and schedules

ENGINEERING DETAIL

- Four roles enforced by JWT authorization policies at the API, not just hidden in the UI
- Append-only audit log — the database context refuses to update or delete an entry
- Tenant isolation enforced by a global query filter, so a missed WHERE clause cannot leak across tenants
- Direct PII encrypted per column with AES-GCM before it reaches the database
- Mapping suggestions default to a locally-hosted model, so partner data need not leave the country
- 11 Cypress specs / 41 end-to-end tests walk the full pipeline, including the role matrix
- Every runtime and tooling dependency is free/open-source — no commercial licences

BUILT WITH

Angular 21 · .NET 10 · PostgreSQL · Clean Architecture · EF Core 10 · Hangfire

More detail: galgaxpert.co.za/software/clearbdx/

Driver Delivery App

Working build · ships with the franchise platform

A React Native app for delivery drivers — assigned drops, navigation, proof of delivery, cash reconciliation, and an offline queue built for South African signal.

THE PROBLEM

A driver on a delivery is the one person in the chain with no desk, no reliable signal and no time. Anything that loses a tap in a stairwell, or asks them to work out change one-handed in the rain, produces a night that does not reconcile.

Who it is for: Delivery fleets and any business with staff working off a phone in the field

WHAT IT DOES

- A driver sees only the deliveries assigned to them, and navigates to the customer
- Mark collected, delivered or failed, with failure reasons from a closed, agreed set
- Delivery confirmation codes, with a capped retry and recorded reasons for skipping one
- Cash on delivery — the driver enters what they were handed; change and shortfall are derived
- Clock on/off and end-of-shift cash-up
- Push notification when a delivery is assigned
- Background location while a delivery is in progress, with an in-app tracking notice
- A privacy screen showing what is tracked and letting the driver download their own data

ENGINEERING DETAIL

- Separate JWT audience — a driver token cannot reach staff or customer endpoints
- Durable offline queue that auto-flushes when the radio returns or the app is foregrounded
- Repeat taps collapse and per-order ordering is preserved, so a queued delivery cannot overtake its own collection
- Replay is safe by server contract — the API returns 200 without writing a second audit row
- A network failure never signs a driver out; only a definitive 401 from the refresh endpoint does
- Background location stops when nothing is being carried, and sampling rates come from the server alongside the notice quoting them
- Push bodies carry no personal information by contract — the order number is the whole message

BUILT WITH

React Native · Expo SDK 57 · TypeScript · expo-router · Jest

More detail: galgaxpert.co.za/software/driver-app/

How we work

You own everything

Source code, data, domain and accounts are registered in your name and handed over. No lock-in, and no per-seat licence on your own software.

Fixed price, agreed up front

Every project is scoped and quoted before work starts, broken into milestones with agreed dates. Larger builds start with a fixed-price first milestone so you see working software before committing to the whole thing.

A direct line to the engineer

You work with the person who builds it — not an account manager. Faster decisions, honest scope, and someone reachable who understands the system.

Built for local conditions

Priced in Rand, POPIA-aligned data handling, Ozow instant EFT, and systems designed to stay standing on South African networks and power.

Start a conversation

Tell us what you are trying to build — even a rough brief. We reply with questions, a suggested approach and an honest quote, usually within a business day, with no obligation.

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