

INTERNAL IMPLEMENTATION CASE STUDY

Morifar OS

Building an AI-assisted operating layer for Morifar Group

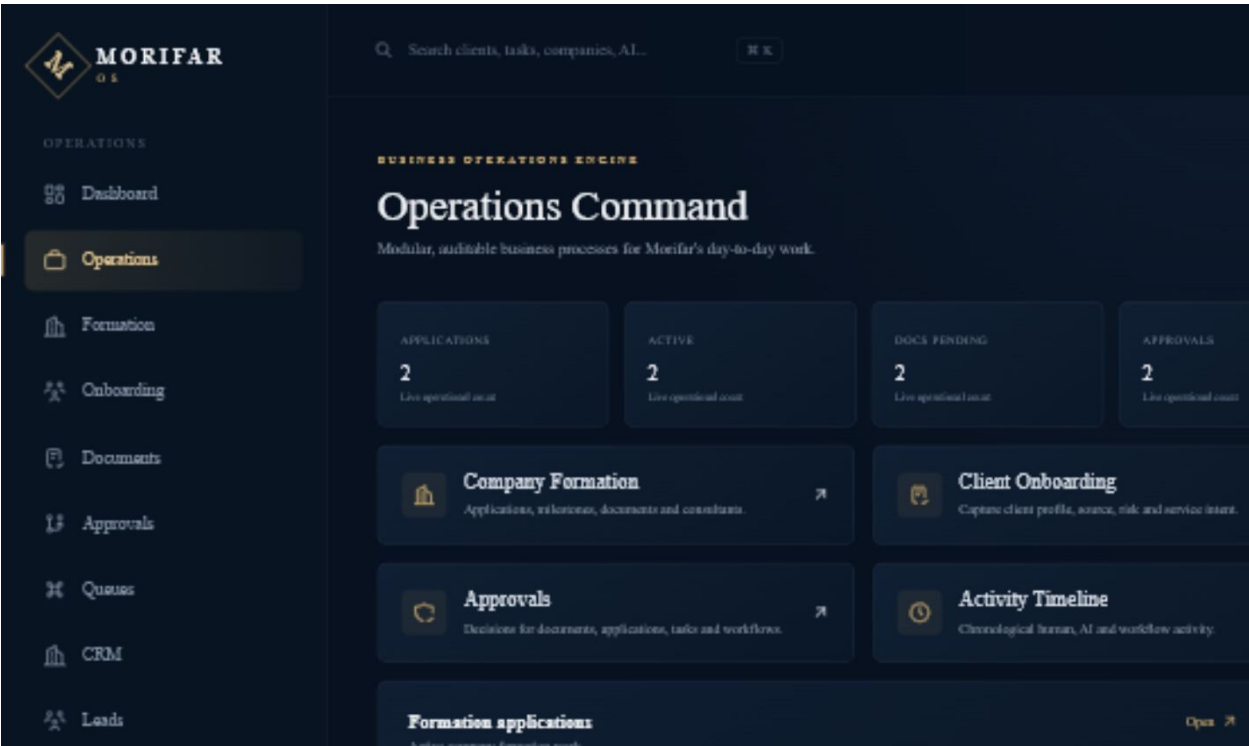


Figure 1. Operations Command - real repository QA capture, cropped for page layout; no interface content altered. Source: [qa/screenshots/business-operations.png](#)

8	29/29	95/100
calendar days to CTO Mode	authenticated routes passed	internal RC readiness

Implementation: 28 June-5 July 2026 | Evidence independently rechecked: 12 July 2026

CASE STUDY SCOPE

The honest version

Morifar Group needed one operating environment for work distributed across companies, departments, files, conversations and individual team members. In an eight-calendar-day build cycle, Morifar designed and developed Morifar OS: an authenticated internal platform combining CRM, operational case management, documents, approvals, human-controlled workflows, AI-labelled decision support and executive visibility.

DISCLOSURE This is an internal implementation case study, not a story about an unrelated external client. The engineering evidence is public. Commercial outcomes have not been invented.

Verified status

Version 1.0.0 Release Candidate was recorded on 2 July 2026. The platform is suitable for an internal pilot and controlled demonstrations. It is not yet ready for durable live client records or autonomous legal, financial or government actions.

Client

Morifar Group - a Dubai-based, multi-entity business group.

Proven outcome

The defensible result is a functioning, authenticated Release Candidate with documented modules, human-control safeguards, responsive QA evidence, a dated public commit history and reproducible build and route tests. No cost-saving, revenue or head-count claims are made.

THE OPERATING PROBLEM

From fragmented coordination to one controlled environment

The group needed to coordinate leads, clients, companies, formation work, documents, approvals and management reporting through a single operating layer. The prior model depended too heavily on fragmented files, messages, spreadsheets and individual staff knowledge.

- One authenticated source of operational visibility.
- Clear ownership of tasks, cases and department queues.
- Human approval for sensitive decisions.
- Traceable workflow and audit history.
- AI assistance that explains and recommends without pretending to be autonomous.
- An architecture capable of expanding into country, department and service packs.

DESIGN PRINCIPLE AI prepares, recommends, drafts, validates and tracks. Humans approve.

What the system was designed to avoid

The implementation deliberately avoids hidden auto-approval, autonomous submissions and unsupported claims that a model is making final legal, compliance or financial decisions.

SOLUTION

What Morifar built

Morifar OS is a Next.js 15 application using React 19, strict TypeScript and Node.js 22. The current data layer uses SQLite. The architecture separates routes, reusable components, domain features, repositories, deterministic services and CTO documentation.

Layer	Implemented Release Candidate scope
Operations	Dashboard, CRM, leads, tasks, formation, onboarding, documents, approvals, queues and timelines
Automation	AI Command Center, AI Professionals, Workflow Engine and Service Automation
Intelligence	Executive Copilot, Client Intelligence, Operations Intelligence and Knowledge Base
Control	Authentication, protected routes, human approvals, audit logs, System Status and Company Profile
Handover	CTO Mode, architecture map, walkthrough, training and controlled demo-data reset

Current AI implementation

The intelligence provider is deterministic and rule-based. It produces labelled guidance from operating records and is designed so a future model provider can be connected behind the same service interface. The current product should therefore be described as AI-assisted and AI-ready - not as a fully autonomous AI workforce.

REAL PRODUCT EVIDENCE

Workflow orchestration with human controls

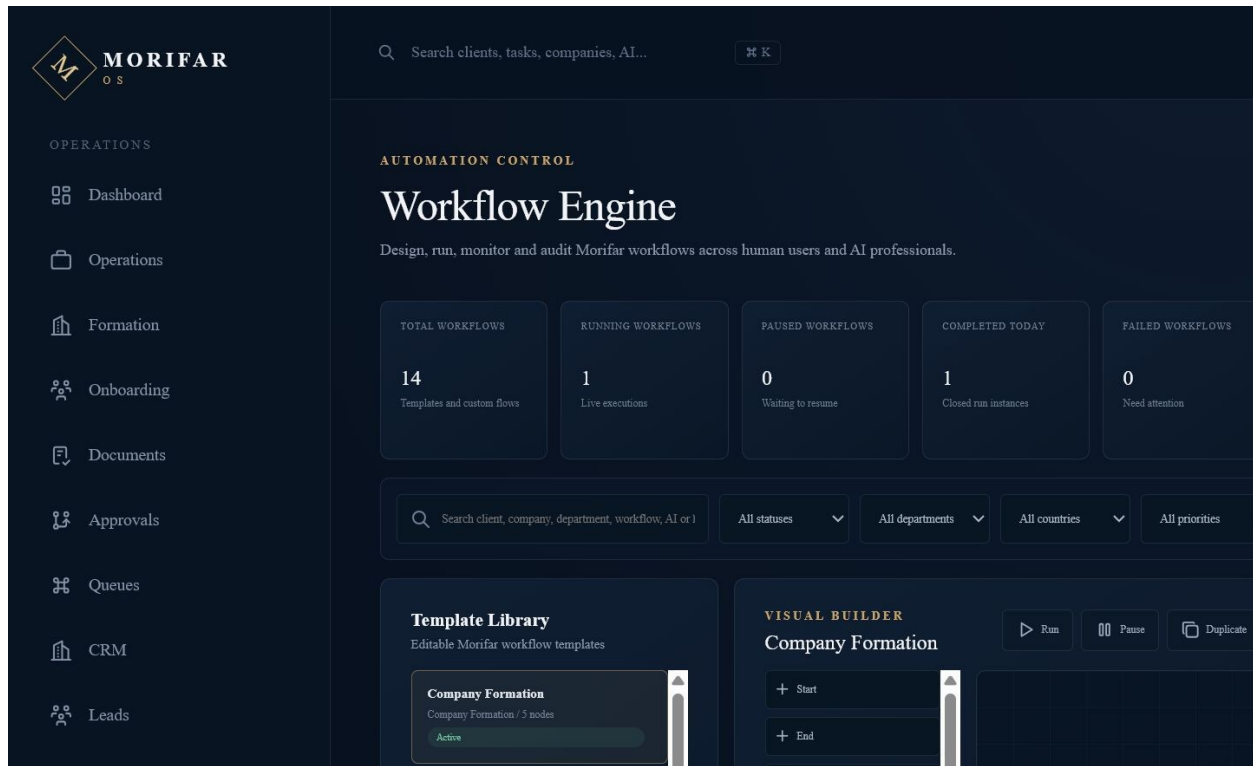


Figure 2. Workflow Engine - templates, run controls, monitoring and approval-oriented workflow design. Source: <qa/screenshots/workflow-engine.png>

The Workflow Engine stores editable definitions, run records and audit activity. Webhook and API nodes remain configurable placeholders; durable external worker orchestration is future work.

RESPONSIVE EVIDENCE Repository QA includes separate desktop, tablet and mobile captures. The Phase 6 review records responsive passes at all three breakpoints, while the fresh 12 July recheck focused on source, build, routes and safeguards.

REAL PRODUCT EVIDENCE

Documents and approvals remain human-controlled

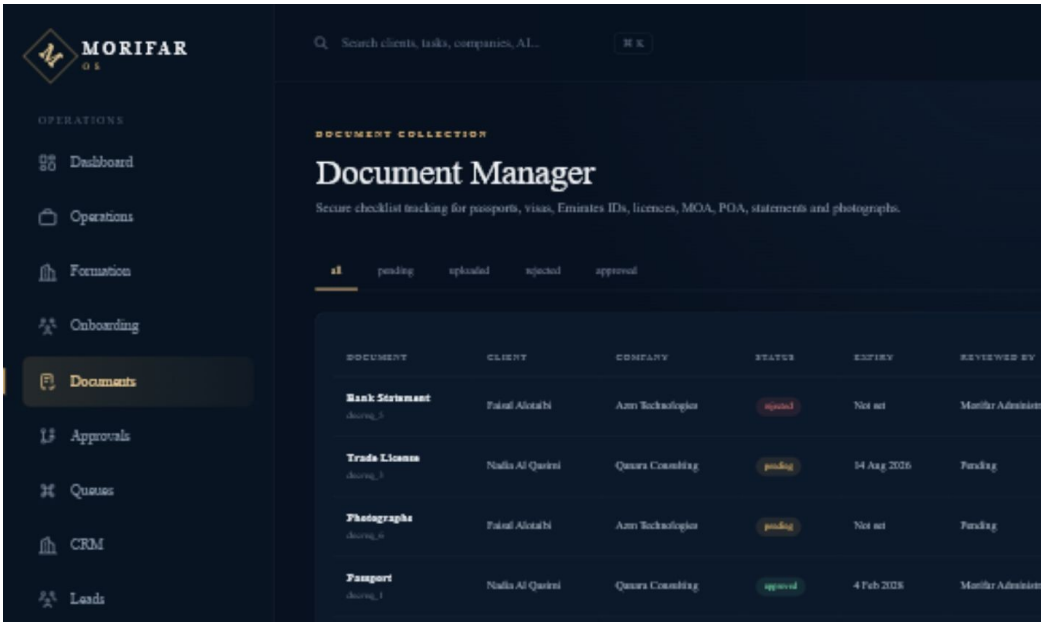


Figure 3. Document Manager - document records, status and reviewer context. Source: qa/screenshots/documents.png

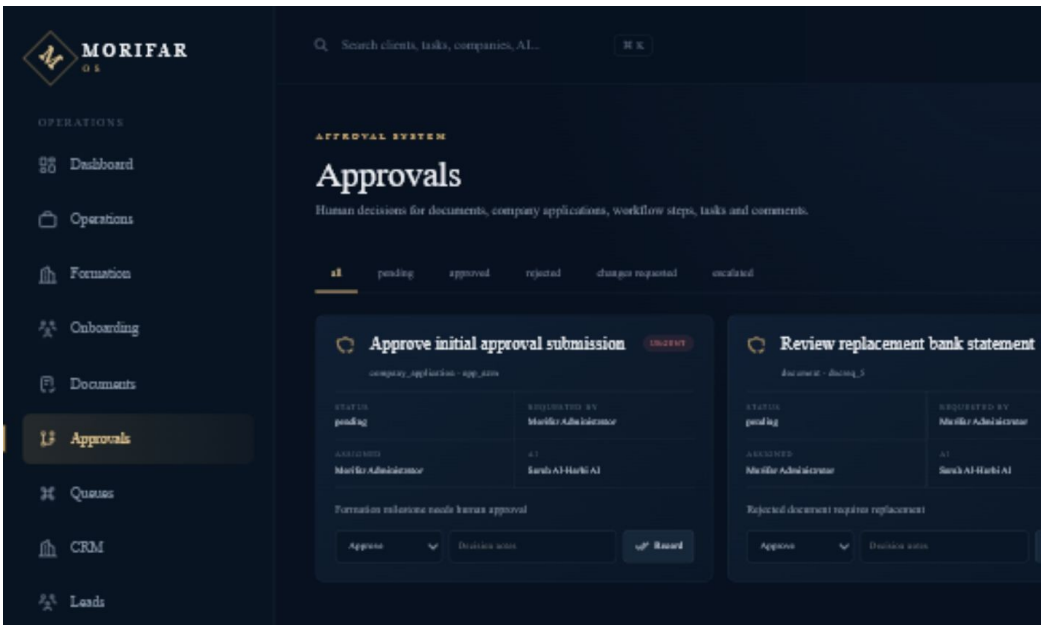


Figure 4. Approvals - sensitive decisions stay with authorised users. Source: qa/screenshots/approvals.png

BOUNDARY Secure binary file storage, OCR, malware scanning and final legal-document issuance are not production-ready in this Release Candidate.

DEVELOPMENT EVIDENCE

An eight-calendar-day public development record

Date	Public evidence	Recorded result
28 Jun	Initial platform, authentication audit and first full QA	74/100; two server-render failures identified
28-29 Jun	Phase 4 operations and stabilization	Broken routes and desktop overflow addressed; typecheck/build passed
2 Jul	Intelligence Layer and release hardening	84/100 then 92/100; route smoke and System Status added
2 Jul	Service Automation and Version 1.0 RC	Human-review safeguards; internal readiness recorded at 95/100
5 Jul	CTO Access Pack and CTO Mode	Architecture, routes, services, data, QA and training visibility

Before and after - only what can be proved

Measure	Initial verified state	Current verified state
Full QA	74/100	92/100 Phase 6 review; 95/100 internal RC readiness
Critical route failures	Two	Zero in the 12 Jul 29-route authenticated smoke test
Release state	Early internal platform	Version 1.0.0 Release Candidate
Access control	Protected redirects; one reviewer context	Six protected routes passed redirect checks on 12 Jul
Service automation	Not present	Dedicated safeguard test passed

All scores are internal engineering and QA assessments stored in the public repository. They are not an independent certification, security audit or client-outcome study.

FAILURE-TO-FIX EVIDENCE

The case study keeps the failure in the record

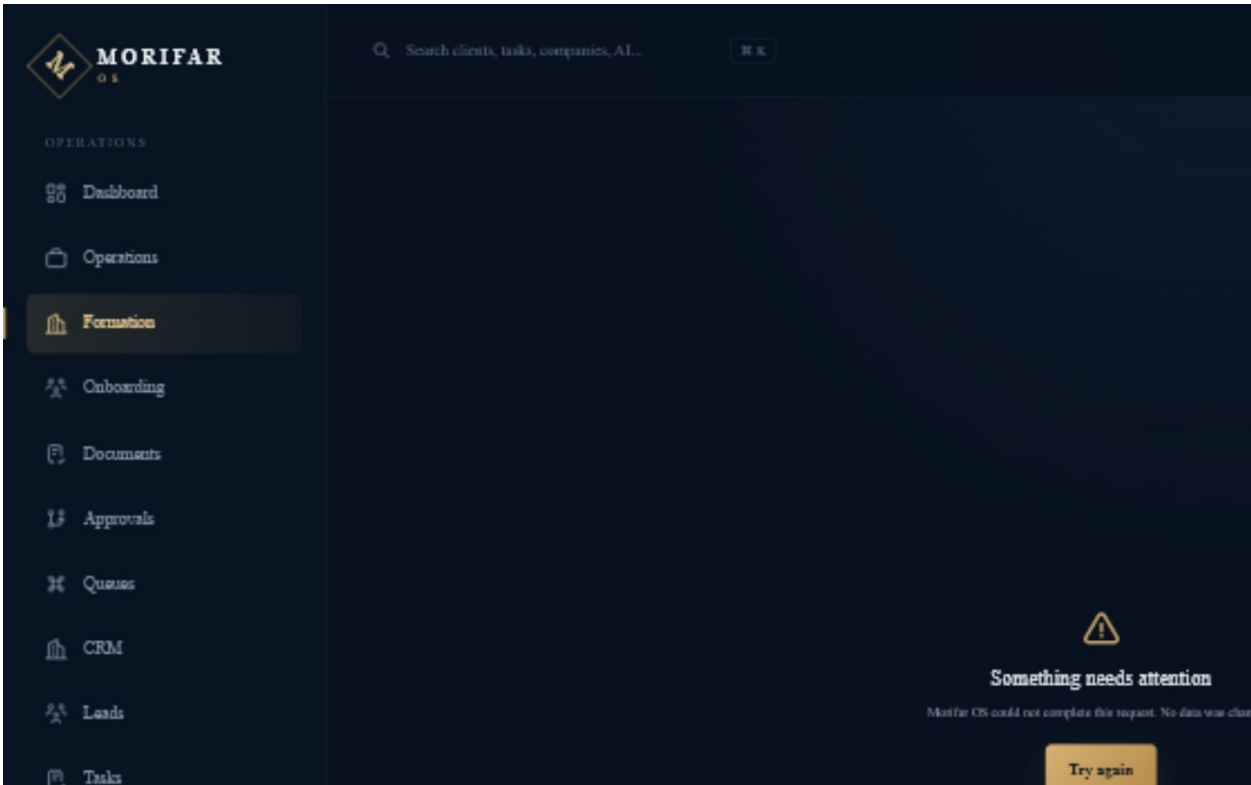


Figure 5. Initial QA capture: the Company Formation route displayed the production error boundary on 28 June 2026. Source: [qa/screenshots/company-formation.png](#)

The 28 June QA report recorded two failing server-rendered routes: ``/company-formation`` and ``/tasks/new``. The later production-readiness report records the serialization fixes. The fresh 12 July smoke test returned HTTP 200 with valid page headings for both routes.

Route	28 Jun capture	12 Jul verification
/company-formation	Production error boundary	PASS 200 - Company Formation
/tasks/new	Production error boundary	PASS 200 - Create a task

WHY THIS MATTERS Showing the original defect and the later test result is stronger evidence than presenting a polished interface without the development trail.

INDEPENDENT RECHECK

Fresh verification performed on 12 July 2026

The public repository at commit `ffe07daa363b89aac4ef1c8ab28cdd687dc44bdb` was cloned and checked specifically for this case study.

Check	Result	Evidence
Strict TypeScript validation	PASS	No type errors
Optimized production build	PASS	Node 22.17.0; Next.js 15.5.19
Authenticated route smoke	29/29 PASS	All returned HTTP 200 with page headings
Unauthenticated protection	6/6 PASS	Expected login redirects
Service Automation safeguards	PASS	Explanations, drafts, communications, compliance and approvals
SQLite warning	REPRODUCED	Documented Node `node:sqlite` experimental warning

What this verification does not cover

The recheck validates the current source build, server-rendered routes, access redirects and dedicated safeguard assertions. It is not a penetration test, independent accessibility certification, external infrastructure audit or long-duration live-data trial.

HONEST BOUNDARIES

What Morifar OS does not yet prove

This case study does not claim cost savings, revenue growth, head-count reduction or improved client turnaround. The platform has not completed a long enough live-data operating period to support those measurements.

- Vercel `/tmp` SQLite storage is ephemeral and unsuitable for durable live client records.
- The current AI provider is deterministic and rule-based; live model orchestration is not connected.
- External government, banking, email, WhatsApp and payment integrations are not live.
- File uploads, OCR and malware scanning are not production-ready.
- Workflow execution is not backed by a durable background worker.
- Multi-role authorization has not been fully validated beyond the available reviewer/Super Admin context.
- There is no independent penetration test, accessibility certification or external product audit yet.

NEXT EVIDENCE GATE Migrate to durable storage, remove demo data and run a controlled 30-60 day internal pilot with timestamped baselines before publishing time, cost or service-level improvements.

Publication integrity

No founder or client quotation is included because no exact quotation has yet been approved in writing. Add one only after the named speaker approves the final words and public attribution.

EVIDENCE REGISTER

Public sources supporting this case study

1. [Public repository](#)
2. [Initial commit - 28 Jun](#)
3. [First full QA report - 74/100](#)
4. [Production readiness](#)
5. [Phase 5 Intelligence Layer commit](#)
6. [Phase 5 QA review - 84/100](#)
7. [Phase 5.1 hardening report - 92/100](#)
8. [Phase 6 Service Automation commit](#)
9. [Phase 6 executive review - 92/100](#)
10. [Version 1.0 RC commit](#)
11. [Release notes](#)
12. [CTO Mode final commit](#)

Screenshot provenance

All interface images in this document come from the public repository's QA screenshot folders. Display crops were made only to fit the page; no screen text, numbers, states or controls were generated or retouched. The original files remain available in the repository.

Prepared as an evidence-backed public case-study draft for Morifar Group. Evidence date: 12 July 2026.