

CLIENT CASE STUDIES

Generative AI, *shipped* to production.

Selected client engagements in AI agents, document intelligence and AI-enabled platforms, each delivered by Skugal's engineering team from first build to production.

**29**

Case studies: named clients plus Pinpole

17

Agentic AI & document intelligence

11

AI-enabled platforms & engineering

ISO 9001

Certified quality management

Pinpole: an AI workspace that designs, simulates and deploys cloud infrastructure

THE CHALLENGE

- Cloud teams design across disconnected diagrams, cost sheets, IaC and load tests
- Capacity and cost problems are found only after deployment
- Designs are hand-translated to Terraform, often with long-lived cloud keys

WHAT WE BUILT

AI infrastructure architect

Prompts or whiteboard photos become editable architectures.

Traffic & cost simulation

100 ms tick engine, 30+ service models, P50/P95/P99 and monthly cost.

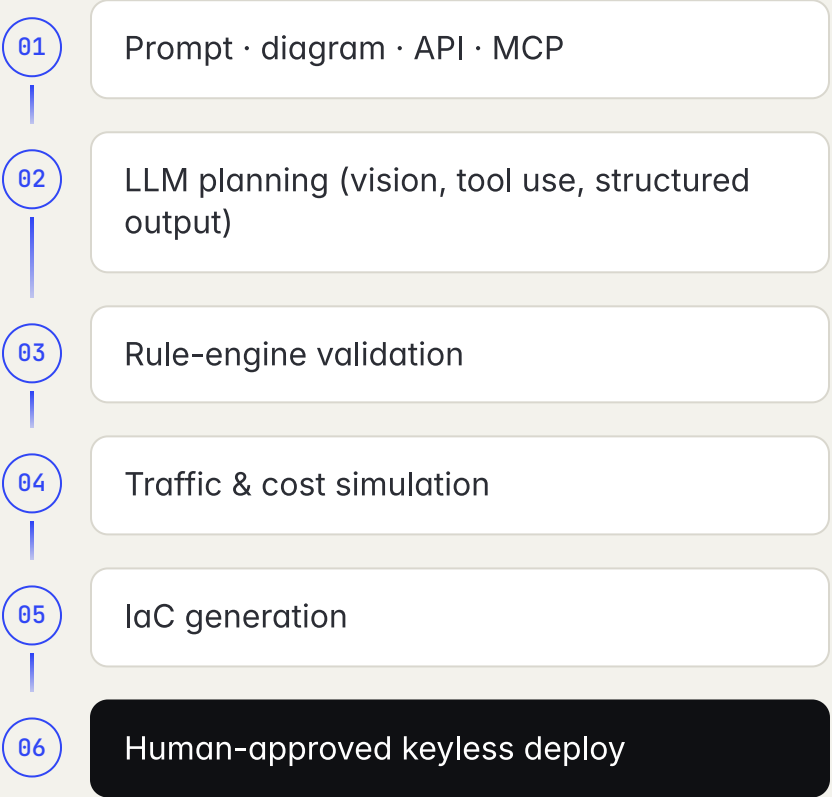
Keyless deployment

OIDC federation; Terraform, CloudFormation, CDK, SAM, ARM.

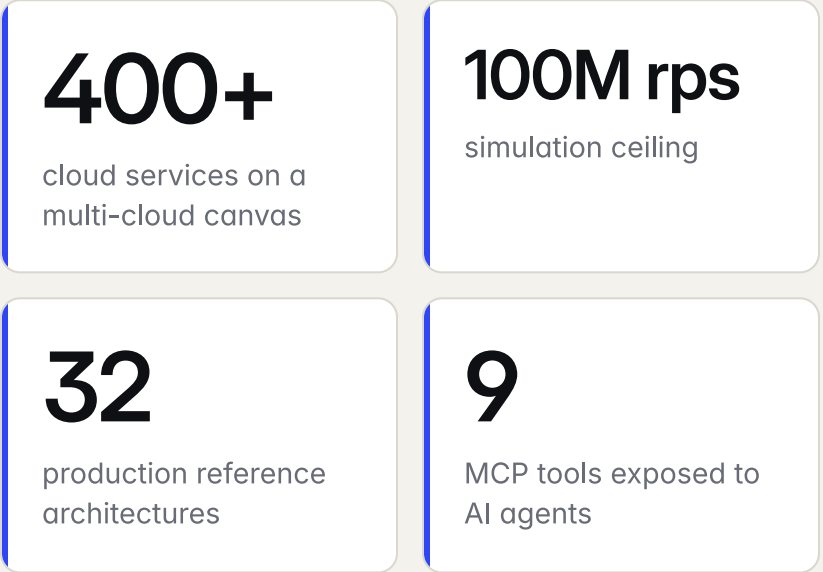
API, SDKs & MCP server

Agents can design, simulate and open canvases programmatically.

HOW IT WORKS



IMPACT



SECTION B · 17 CASE STUDIES

Agentic AI & Document Intelligence

LLM agents, voice AI, speech and vision pipelines, and document-intelligence systems built for startups and growth-stage product teams.

- SettleOnAI
- Phonetik
- Dark Patterns Laboratory
- AICre8
- Trenches.ai
- Outcurve
- Finn Design
- FitwithPari
- DQ Ventures
- Hermann IT Solutions
- RevitPay
- Nexensus
- CoinTribe Technologies
- Lendly
- Ad9Labs
- DebitMyData
- Plato Technologies

B

Turning cold outreach into real conversations with AI voice agents

BUILT WITH OPENAI

THE CHALLENGE

- Outbound calling and scheduling were manual and slow
- Rigid IVR systems broke natural conversation and missed caller intent
- Email follow-ups were disconnected from what happened on the call

WHAT WE BUILT

AI phone agent

API-triggered outbound calls with live, two-way speech.

Real-time conversation engine

Handles pushback, negotiates times and confirms meetings.

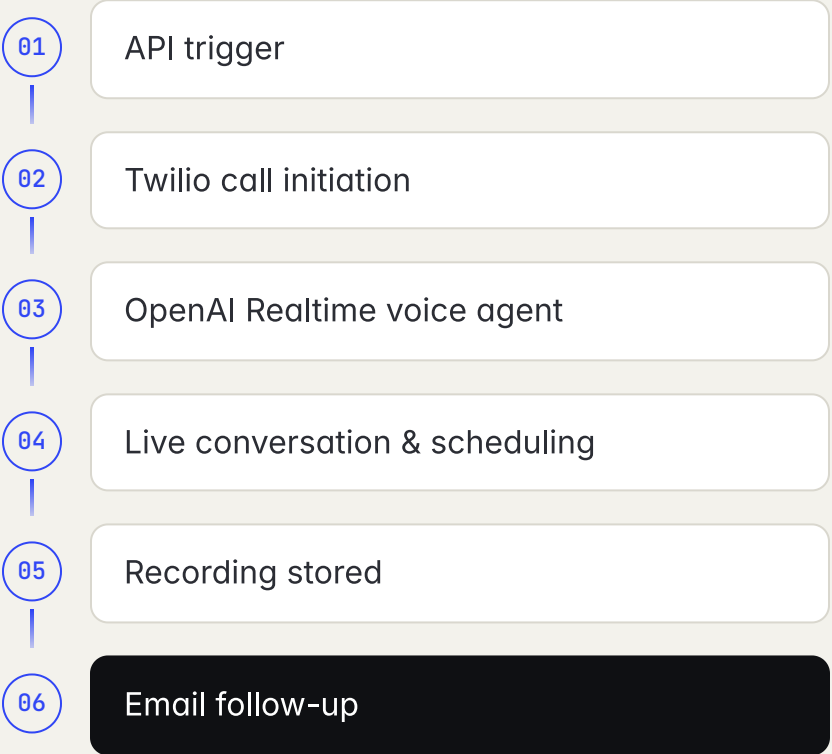
Call recording layer

Every call stored as the foundation for post-call intelligence.

Automated follow-ups

Outcome-driven emails with feature-flagged test vs production sending.

HOW IT WORKS



OUTCOMES

- ✓ Scripted IVR replaced by natural, intent-driven conversation
- ✓ Scheduling became conversational instead of form-based
- ✓ Follow-ups now consistent, automated and safely rolled out
- ✓ Agent-extensible base for calendar, CRM and multi-agent flows

STACK

OpenAI Realtime API

Twilio

AWS EC2

Prompt-engineered dialogue

Automated captions and audio description for accessible video at scale

BUILT WITH OPENAI

THE CHALLENGE

- Captioning and audio description were manual, costly and slow on large libraries
- Subtitle quality, speaker attribution and sound cues were inconsistent
- Accessibility mandates had to be met across languages and regions

WHAT WE BUILT

Open → closed captions

Rekognition text detection, timestamp alignment, SRT output.

Speech, speaker & sound

Whisper, PyAnnote + WhisperX diarisation, YAMNet sound classes.

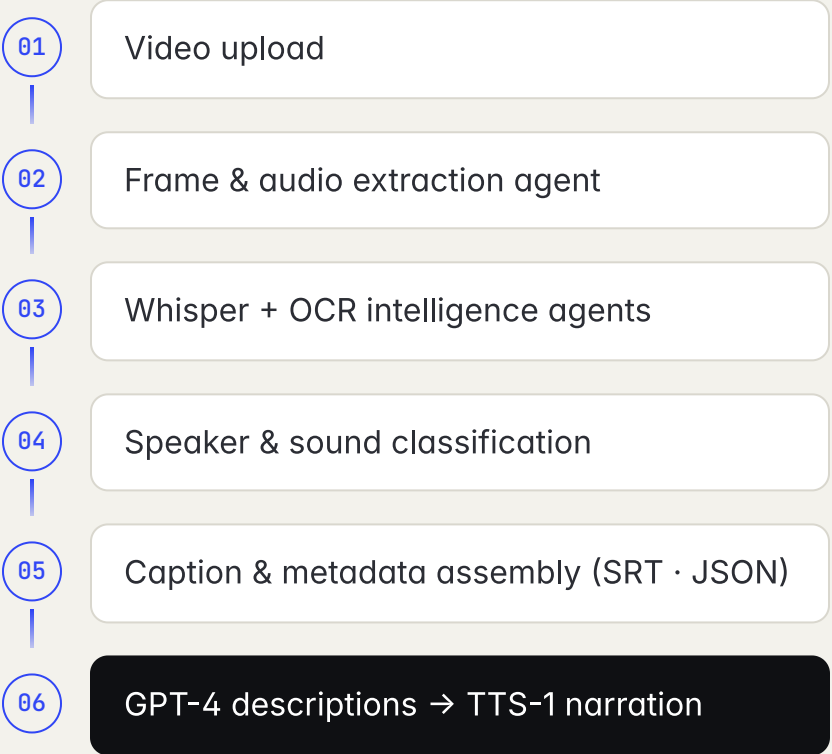
Audio description

GPT-4 describes silent scenes from frames; TTS-1 narrates.

Frame-accurate merge

FFmpeg merges narration back into the original video.

HOW IT WORKS



OUTCOMES

- ✓ Major reduction in manual captioning and narration effort
- ✓ Large video libraries processed without proportional headcount
- ✓ Multi-language, multi-region accessibility readiness
- ✓ Regulation-ready accessible media assets for broadcasters

STACK

OpenAI Whisper

GPT-4

OpenAI TTS-1

AWS Rekognition

AWS Transcribe

PyAnnote

WhisperX

YAMNet

FFmpeg

Lambda · SQS

n8n

Detecting manipulative UX on high-traffic websites with explainable AI

THE CHALLENGE

- Fake scarcity, false urgency, countdown timers and confirm-shaming are subtle and dynamic
- Manual audits don't scale, and screenshots lack context
- Intent is hard to prove without structured, explainable analysis

WHAT WE BUILT

Automated scanning

Live pages crawled with DOM, timers and pop-ups captured.

LLM pattern detection

Interprets intent and context, not just keywords.

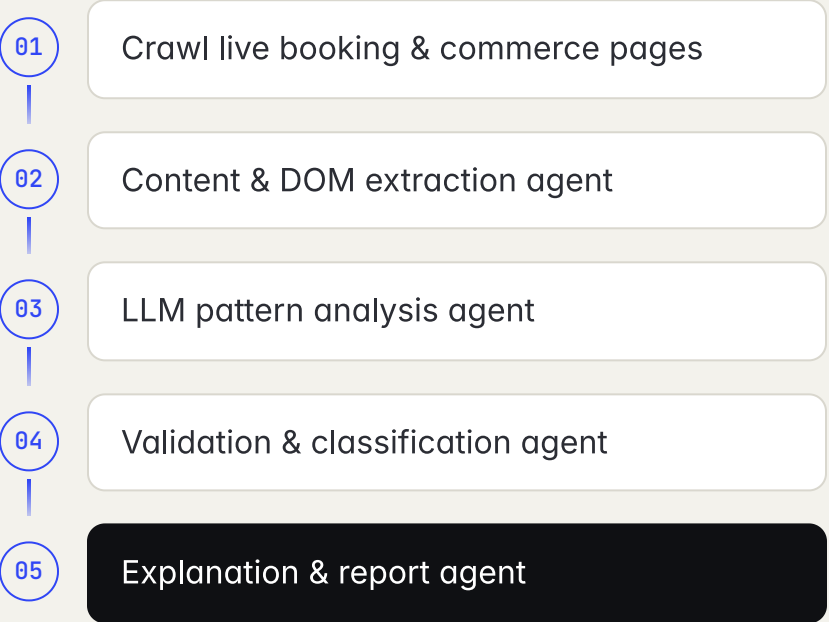
Validation agent

Checks and classifies findings against known categories.

Explainable reports

What was flagged and why, written for legal, UX and compliance teams.

HOW IT WORKS



OUTCOMES

- ✓ Manual UX audit effort reduced dramatically
- ✓ Pre-launch compliance checks for product teams
- ✓ Evidence-backed explanations usable by regulators
- ✓ Modular: new dark-pattern categories added without rework

Turning a single prompt into a running, deployable Web3 application

THE CHALLENGE

- LLMs output code files, not runnable applications
- No preview, execution or deployment after generation
- No auth, payments or Web3 workflows (tokens, contracts, networks)

WHAT WE BUILT

Intent decomposition

One prompt split into objective, pages, Web3 needs and file structure.

Codebase generation

Complete multi-file projects in a live file explorer.

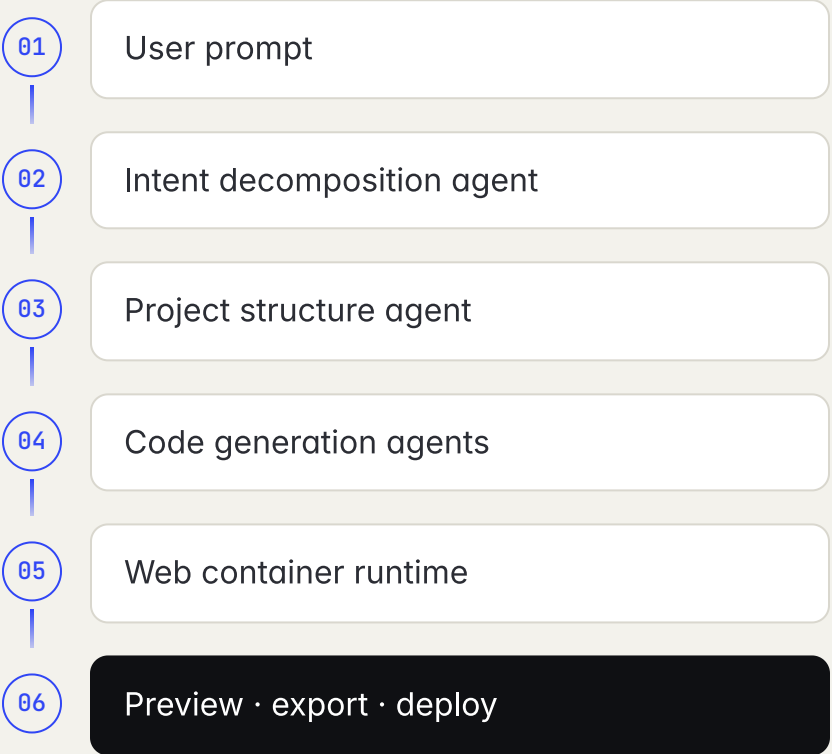
In-browser execution

Generated apps run instantly in web containers.

Stripe monetisation

Free vs Pro, checkout, webhooks, upgrades, refunds.

HOW IT WORKS



OUTCOMES

- ✓ Moved users from prompt → code to prompt → product
- ✓ Apps previewed instantly with no local setup
- ✓ Meme-token sites, DeFi dashboards, dApps and contracts, from testnet to mainnet
- ✓ Production-ready subscriptions and access control

A multi-agent trading assistant grounded in live on-chain data

THE CHALLENGE

- Traders juggle dashboards and raw transaction logs
- Wallet state and P&L change minute by minute
- Generic AI chat has no grounding in the user's actual transactions

WHAT WE BUILT

Live data sync

Agent pulls wallet data; the UI updates as on-chain state changes.

Context-aware chat

Portfolio, P&L, token detail, swaps and trending assets.

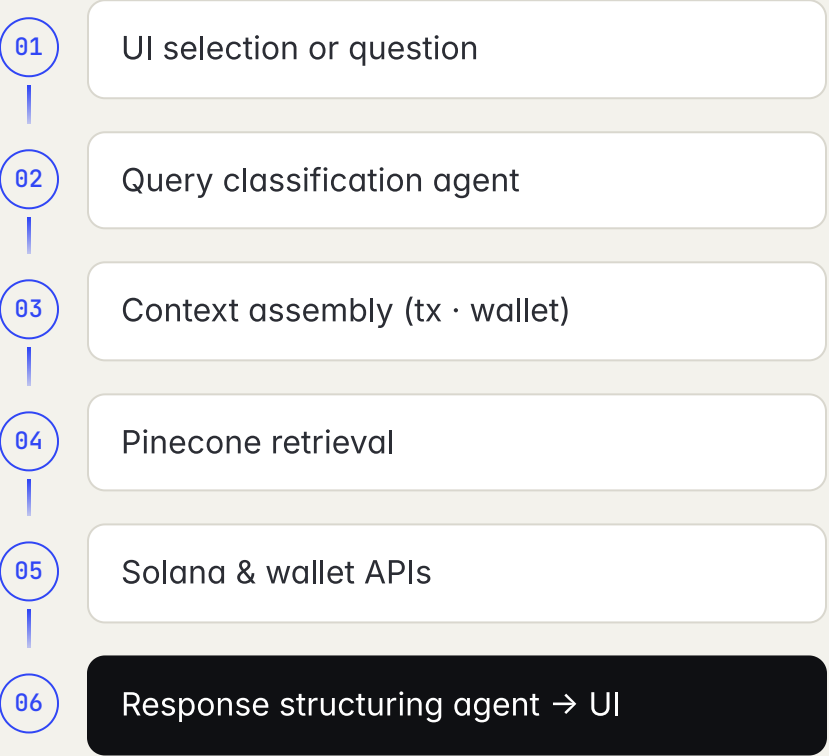
Transaction-scoped Q&A

The selected row becomes the agent's context for follow-ups.

UI-aligned schemas

Responses structured to render directly as UI components.

HOW IT WORKS



OUTCOMES

- ✓ Answers tied to the exact transactions a trader selects
- ✓ System prompts designed to minimise API calls
- ✓ Continuous testing to suppress hallucinations
- ✓ Foundation for copy trading and risk-based leaderboards

Turning “who should we target?” into a one-line prompt

THE CHALLENGE

- Account research meant manual searching and rigid filters across tools
- Data was copy-pasted into spreadsheets
- Outreach stayed generic and converted poorly

WHAT WE BUILT

Prompt-based discovery

Describe an ICP in plain language and get real, structured company data.

ICP matching engine

Filters by geography, industry, ARR and market cap, then prioritises.

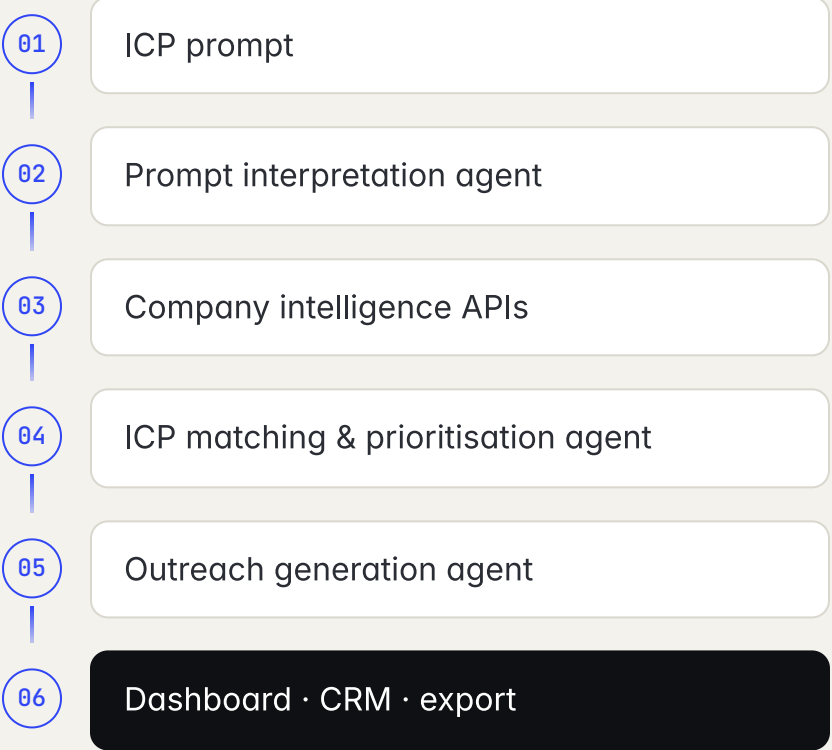
Outreach generation

Account-specific LinkedIn posts, campaigns, pitch PDFs and account plans.

CRM-ready output

Saved lists, CSV/PDF export and CRM integration.

HOW IT WORKS



IMPACT

Days → minutes

account research time

OUTCOMES

- ✓ Higher relevance through ICP-matched targeting
- ✓ Personalised outreach at scale with no extra headcount
- ✓ Faster GTM execution for sales and growth teams

Conversational AI analytics on large-scale MongoDB data

THE CHALLENGE

- Simple sales questions needed complex MongoDB aggregation pipelines
- Data was spread across many collections for sales, ads and orders
- Analytics requests depended on engineers, with no conversational follow-up

WHAT WE BUILT

Chat analytics

Plain-English questions with memory for follow-ups.

AI-generated queries

find/aggregate pipelines that are read-only and validated.

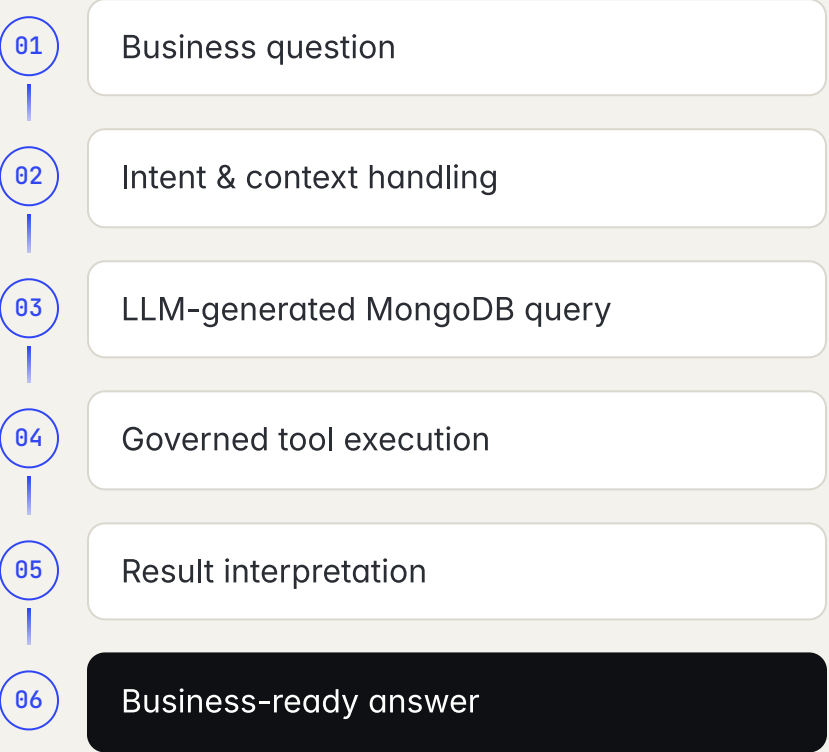
Governed tool execution

Queries run only through approved tools, with no raw DB access.

Multi-collection reasoning

Combines sales and advertising (SP/SD/SB) data.

HOW IT WORKS



OUTCOMES

- ✓ Founders and operators query complex data themselves
- ✓ Reduced dependency on engineering for analytics
- ✓ Secure, read-only, governed database access

CoachPrep: pre-computed AI student profiles for personalised coaching

THE CHALLENGE

- Onboarding forms, assessments, posture notes and feedback lived in raw, fragmented formats
- Coaches couldn't quickly understand a student before class
- Personalisation didn't scale across many students

WHAT WE BUILT

Long profile

LLM-merged JSON of goals, restrictions, assessments and progress.

Short class profile

Must / should / nice-to-know summary per class format.

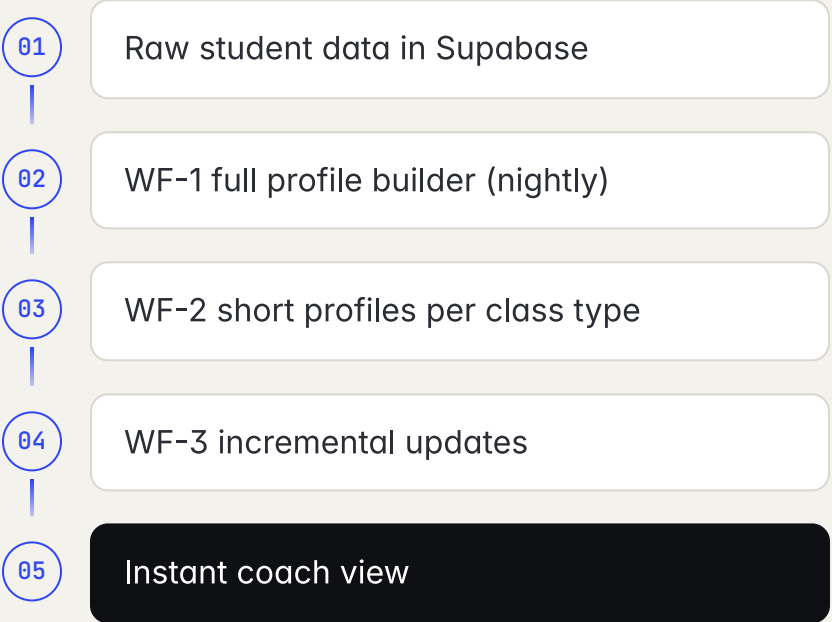
Three n8n workflows

Nightly full build, short-profile generator, incremental refresh.

Supabase system of record

Versioned profiles, atomic RPC upserts, full audit trail.

HOW IT WORKS



IMPACT

0

real-time LLM calls during a class

3

orchestrated, retry-safe workflows

OUTCOMES

- ✓ Instant coach access to student insight
- ✓ Profiles evolve automatically with student progress
- ✓ Agent-extensible base for scheduler and progress agents

Governed AI automation for venture deal flow and CRM

THE CHALLENGE

- High volumes of inbound founder emails and contacts
- Manual checks for existing CRM contacts and duplicates
- Inconsistent enrichment, with workflow loops re-processing records

WHAT WE BUILT

CRM intelligence

AI classifies founders, operators and internal contacts.

Idempotent processing

State flags skip processed contacts and prevent loops.

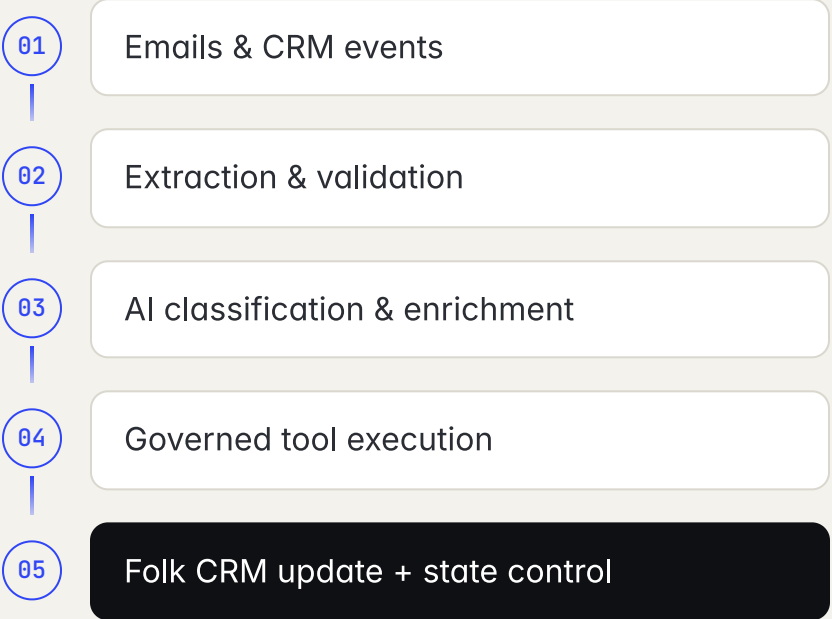
MCP-style execution

AI suggests; only approved tools write to the CRM.

Time-zone-aware scheduling

Predictable once-a-day runs across regions.

HOW IT WORKS



OUTCOMES

- ✓ Faster processing of inbound founder and deal flow
- ✓ Less manual CRM work for the investment team
- ✓ No duplicate records; clean, enriched profiles
- ✓ Secure, auditable AI usage

AI document intelligence inside Microsoft Dynamics ERP workflows

THE CHALLENGE

- Sales orders and item masters were keyed in manually from PDFs, emails and scans
- Customer and item matching carried high error risk
- Documents arrived in English and German with no pre-import validation

WHAT WE BUILT

Unified intake

PDF, image, EML or text, in one or many documents per run.

Multilingual extraction

Same AI workflow for English and German documents.

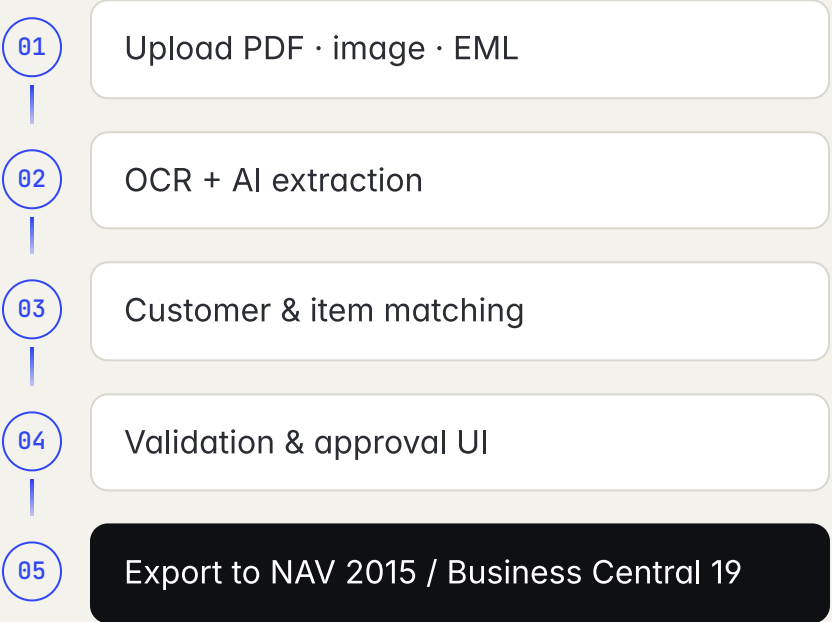
AI matching

Customers and items matched to ERP records, with uncertain matches flagged.

Human validation

Approve or adjust values before an ERP-ready export.

HOW IT WORKS



OUTCOMES

- ✓ Significant reduction in manual ERP data entry
- ✓ Fewer customer and item mismatches
- ✓ Same backend reused for sales orders and item imports

AI agents that parse invoices and bank statements for reconciliation

THE CHALLENGE

- Finance teams keyed data manually from PDFs and scans
- Template-based automation broke whenever formats varied
- Reconciliation cycles were bottlenecked by document handling

WHAT WE BUILT

Smart ingestion

Dashboard, email or API upload, auto-classified as invoice or statement.

OCR extraction agents

Textract + Google Vision extract line items, totals and transactions.

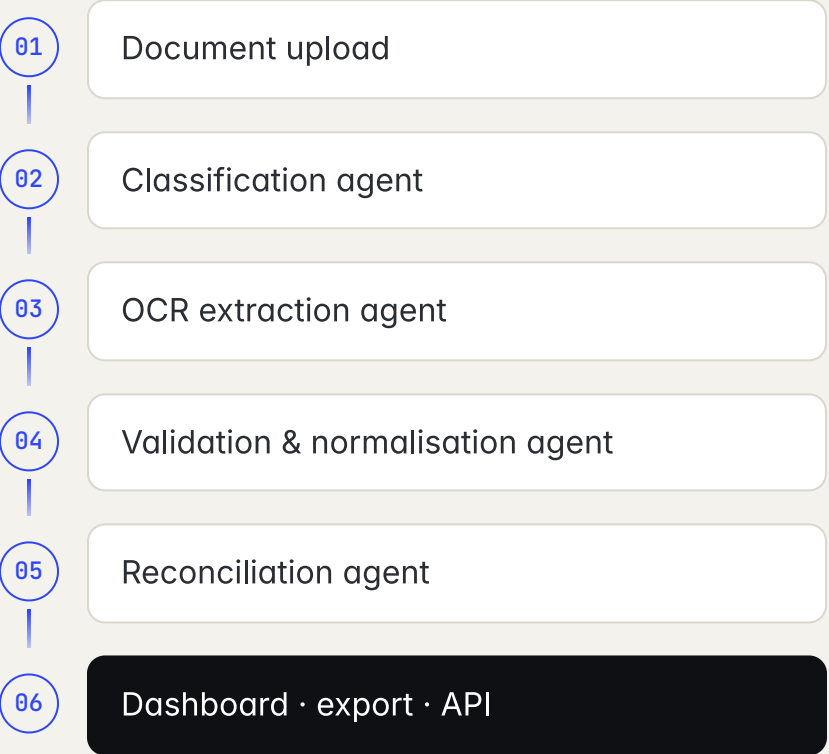
Reconciliation insights

Invoice-to-payment matching; CSV/Excel export to ERP.

Serverless scale

Event-driven Lambda pipelines with resilient queues.

HOW IT WORKS



IMPACT

~80%

reduction in document processing time

OUTCOMES

- ✓ Significant drop in manual data-entry errors
- ✓ Faster reconciliation and reporting turnaround
- ✓ Normalisation across invoice and statement formats

STACK

AWS Textract

Google Cloud Vision

AWS Lambda

Queues

Agent pipeline

Agentic bank-statement parsing for faster lending decisions

THE CHALLENGE

- Every bank uses different statement layouts and transaction semantics
- Unstructured and semi-structured PDFs resisted automation
- Underwriting needed accurate JSON and Excel outputs at volume

WHAT WE BUILT

Case-based dashboard

Upload statements, track processing, view transactions and trends.

Bank-aware parsing

OCR + NLP that adapts to each bank's layout.

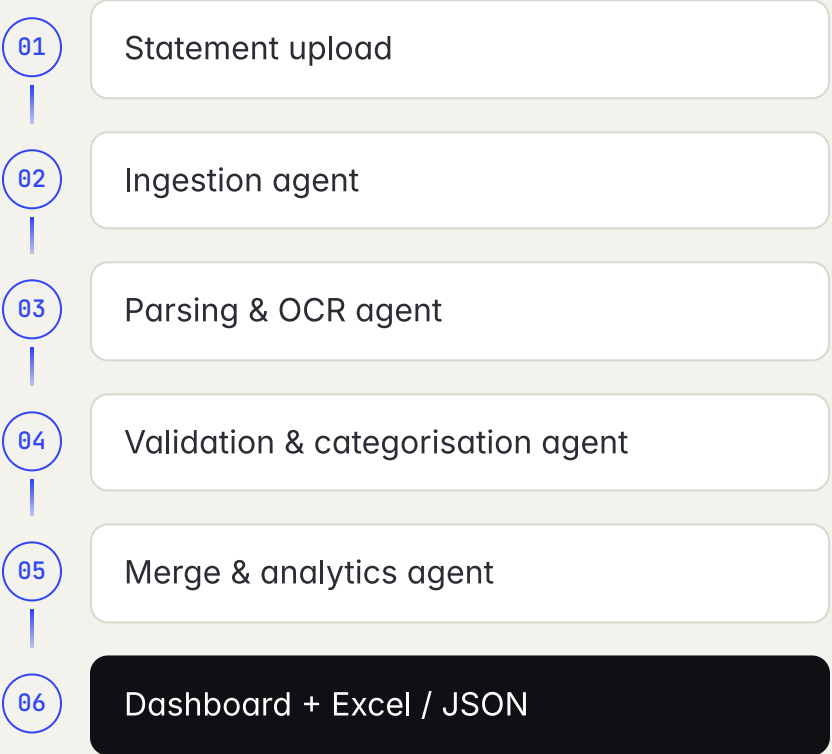
Validation & categorisation

Credits, debits, EMI and charges classified; anomalies flagged.

Merge & analytics

Multiple statements merged; EOD balance, inflow and outflow computed.

HOW IT WORKS



IMPACT

25+

Indian bank formats processed automatically

Hours → minutes

reconciliation time

OUTCOMES

- ✓ Faster loan underwriting and credit decisions
- ✓ Queue-based agents for high-throughput, fault-tolerant processing

AI document agents that took loan processing from days to minutes

THE CHALLENGE

- Aadhaar, PAN, bank statements and TIN documents were collected and checked by hand
- Credit assessment workflows were fragmented
- Lender matching and case transfers caused multi-day delays

WHAT WE BUILT

Application intake

Secure capture with a unique application number per case.

Document validation

Textract + ML rules check authenticity and completeness.

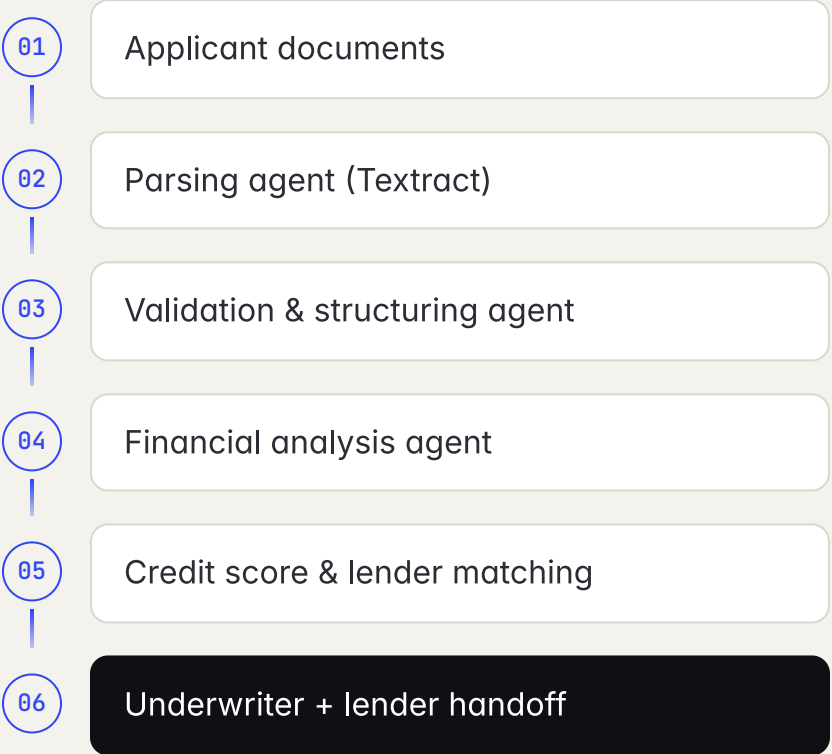
Credit dashboard

Automatic income, expense and cash-flow summaries.

Lender matching

PAN-based credit score; rule-driven lender shortlist and transfer.

HOW IT WORKS



IMPACT

Days → minutes

loan processing time

60–70%

less manual document validation

OUTCOMES

- ✓ Audit-ready workflows with role-based access
- ✓ Seamless lender handoff with complete documentation

Automating complex lending operations with agent-driven workflows

THE CHALLENGE

- Operations spanned Salesforce, email, financial files, enrichment tools and reviews
- Daily workflows were manual, error-prone and hard to audit
- The challenge was orchestrating many interdependent workflows reliably

WHAT WE BUILT

Financial file agent

Daily files pulled from email; GST and gross calculated; gaps alerted.

Salesforce automation

State-wise registration aggregation and balanced account assignment.

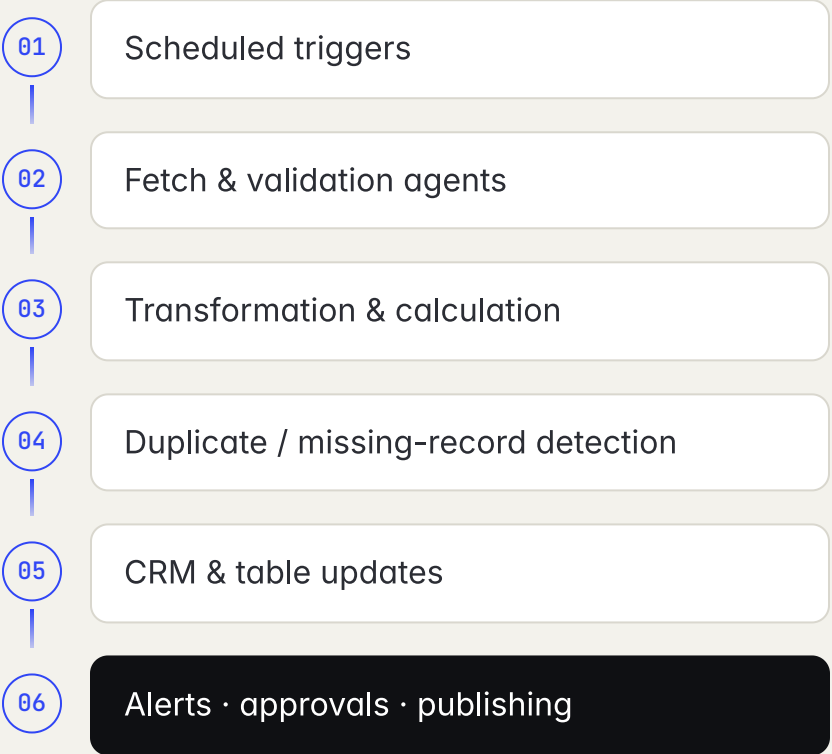
Async enrichment

PhantomBuster jobs triggered, polled and parsed safely.

AI review replies

AI-drafted Google review replies, published only after approval.

HOW IT WORKS



IMPACT

6

production workflows orchestrated

OUTCOMES

- ✓ Fewer reconciliation errors and data inconsistencies
- ✓ Idempotent, safely re-runnable scheduled jobs
- ✓ Controlled AI usage with human approval

STACK

Salesforce

Playwright

PhantomBuster

Dropbox

AWS

LLM drafting

From one product image to dozens of on-brand creatives in minutes

THE CHALLENGE

- Creative production was slow: shoots, edits and approvals
- It was expensive, relying on studios, creators and agencies
- Output was inconsistent across teams and regions, so brands could scale spend but not creative

WHAT WE BUILT

Brand intelligence hub

Logos, colours, fonts and tone applied to every asset.

AI creative generation

Ads, banners, social posts, product visuals and reels.

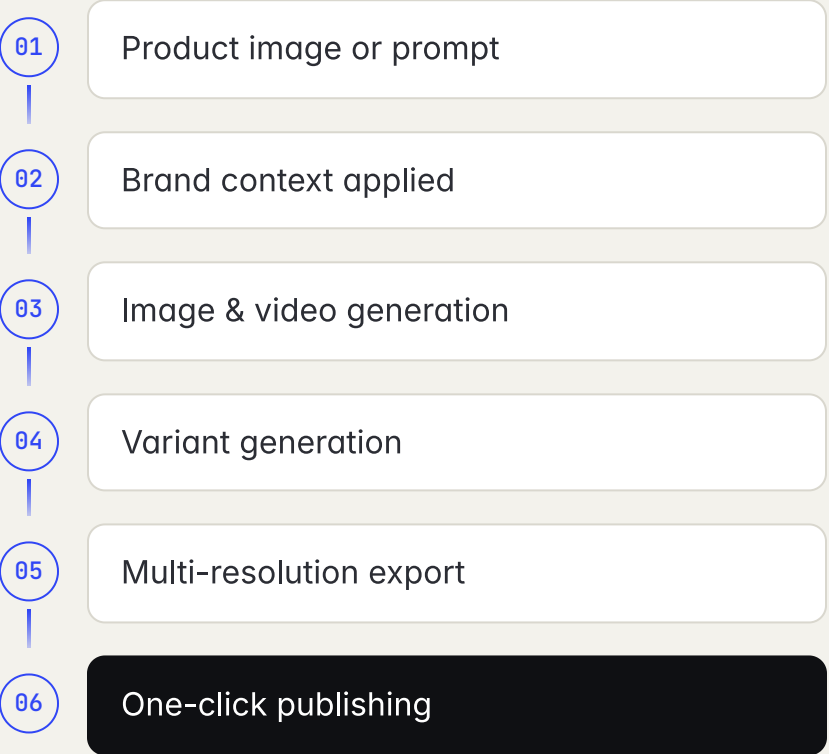
Variations & video

10–20 variants per click; static images turned into motion.

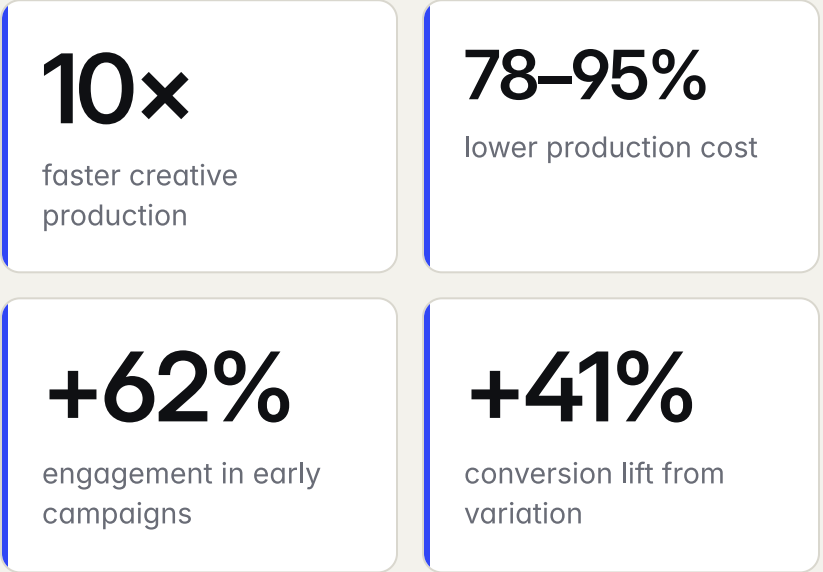
Multi-channel publishing

Correct sizes for every platform; schedule and publish in-app.

HOW IT WORKS



IMPACT



Reported from Ad9Labs internal benchmarks and early customer usage

Hardening a privacy-first data-ownership platform for real users

THE CHALLENGE

- AI agents failed silently with “no valid JSON response found”
- Save flows didn't persist, and the client crashed after agent updates
- Login, wallet-connect and spam-filtered verification emails blocked onboarding

WHAT WE BUILT

Agent reliability

Validated JSON handling ended silent failures and error-popup storms.

State & save flows

Settings, voice and sound updates now persist reliably.

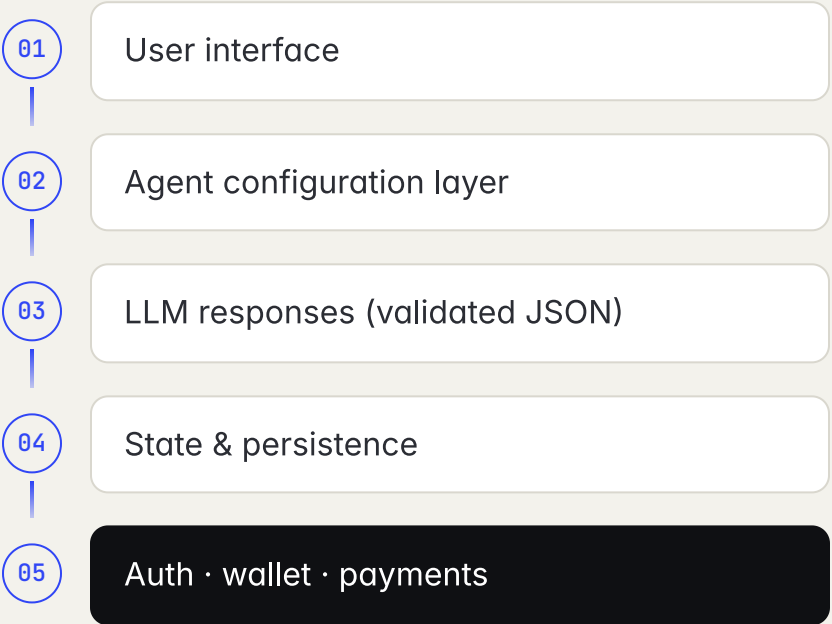
Onboarding fixes

First-attempt login and wallet-connect issues resolved.

Subscription readiness

Manual Stripe updates replaced with automated flows.

HOW IT WORKS



OUTCOMES

- ✓ Fewer agent failures and silent errors
- ✓ Smoother sign-up and login
- ✓ Reliable AI interactions for users
- ✓ Clear path to self-serve subscriptions

An agentic crypto platform for price tracking, portfolio insight and trends

THE CHALLENGE

- Prices, news, on-chain data and portfolios lived across dozens of platforms
- Retail users couldn't tell meaningful moves from noise
- The business needed a scalable subscription model

WHAT WE BUILT

Real-time tracking

Live prices, historical trends and market context.

AI portfolio analysis

Exposure, distribution and predictive indicators.

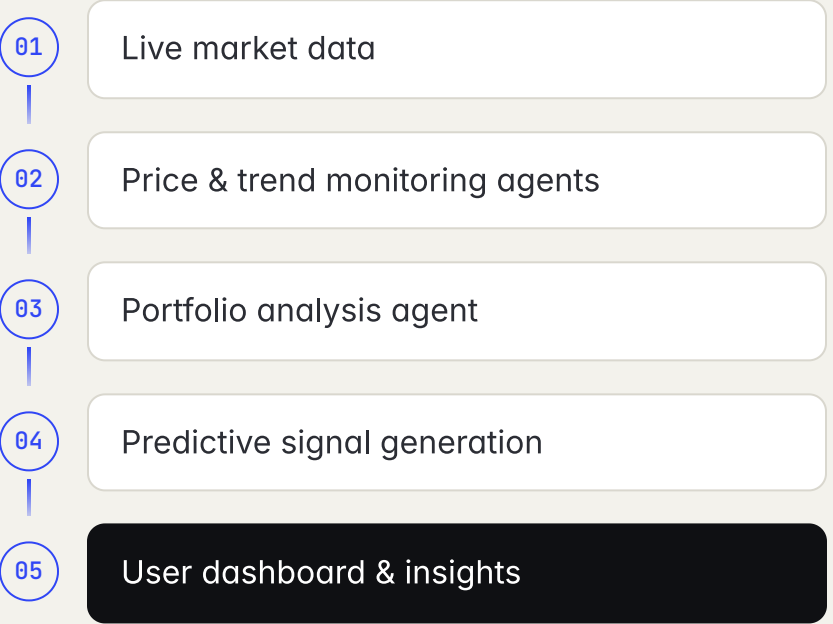
Agentic market intelligence

Agents watch volatility and momentum shifts continuously.

Subscriptions & admin

Freemium, Connect and Enterprise tiers; churn analytics.

HOW IT WORKS



OUTCOMES

- ✓ Clearer portfolio visibility for retail users
- ✓ Less time spent interpreting market noise
- ✓ Scalable, subscription-driven revenue model

STACK

React

Node.js

Snowflake

PostgreSQL

DynamoDB

AWS Lambda

S3

SECTION C • 11 CASE STUDIES

AI-Enabled Platforms & Engineering

Computer vision, ML signal engines, real-time data pipelines and serverless platforms: the engineering foundation that production AI runs on.

- Wimwisure
- Token Metrics
- Morlogix
- Cureboon
- Optimal Portfolio
- Halo Solutions
- Erkmo Analytics
- ACT
- Whittle Group
- Simport
- Orangewood



Motor insurance inspections 45% faster with computer vision

THE CHALLENGE

- Vehicle inspections were slow, manual and dependent on human judgement
- Inconsistent inspections delayed underwriting
- Fraudulent or incomplete submissions raised risk exposure

WHAT WE BUILT

Operations dashboard

Every inspection case managed digitally, with live status.

Guided evidence capture

Self and assisted image/video capture flows.

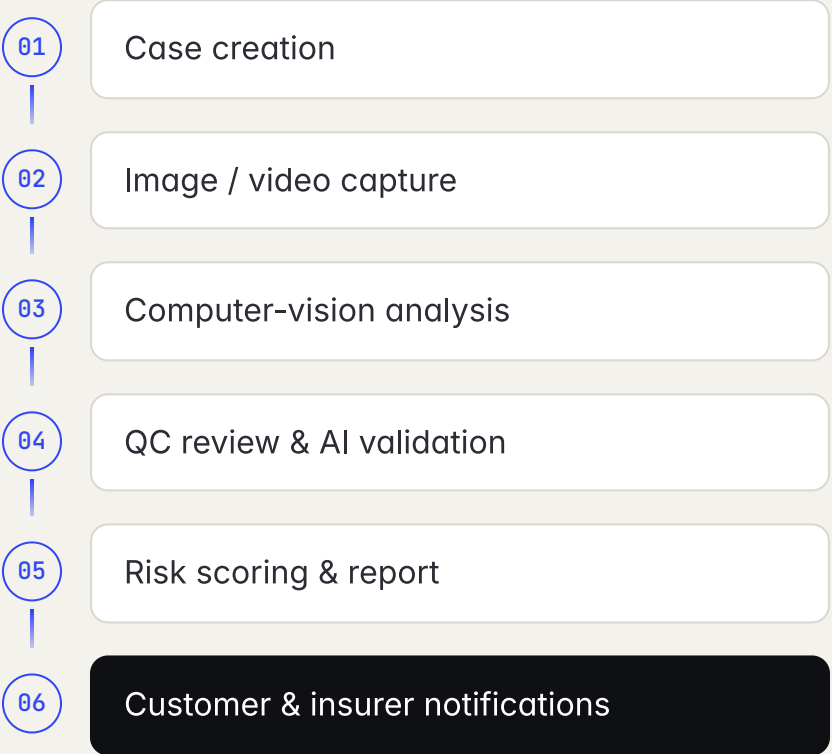
AI-assisted QC

Computer-vision pre-validation with a full audit trail.

Automated communication

SMS, WhatsApp and email at every stage.

HOW IT WORKS



IMPACT

45%

faster inspection-to-report turnaround

–30%

incomplete or invalid inspections

+25%

fraud detection accuracy

–35%

customer support queries

Turning crypto market noise into personalised investment signals

THE CHALLENGE

- On-chain and off-chain crypto data was fragmented
- There was no clear signal for bullish versus bearish conditions
- Personalisation for individual investors was limited

WHAT WE BUILT

Signal engine (TMI)

ML scoring over live and historical data for buy/sell insight.

Personalised dashboards

Market and token signals instead of raw charts.

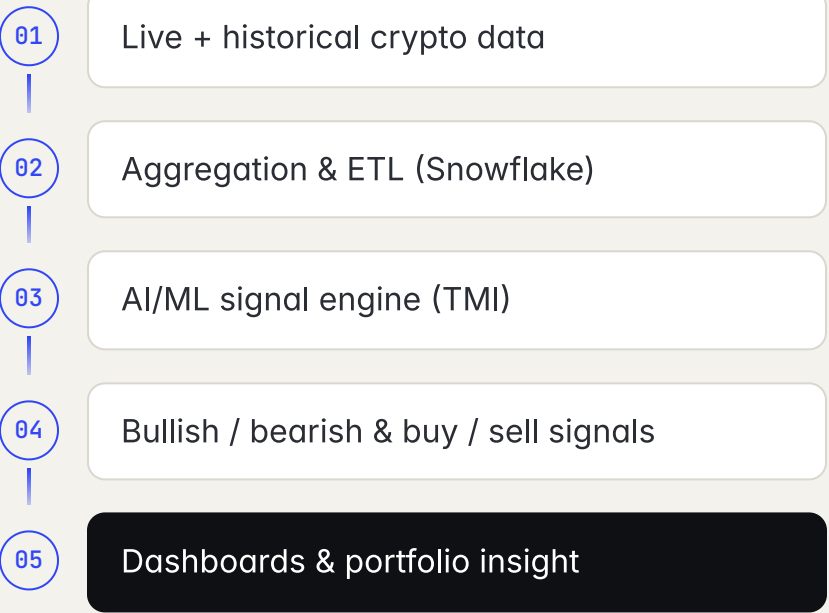
Portfolio tracking

Asset-level performance and portfolio trends.

Data infrastructure

Snowflake warehouse, modular ETL and real-time APIs.

HOW IT WORKS



IMPACT

6–8 mo

to a production-grade platform

OUTCOMES

- ✓ Personalised investment insight for retail users
- ✓ Less time spent interpreting market data
- ✓ Foundation that kept scaling across market cycles

An AI-assisted mortgage origination and financial intelligence platform

THE CHALLENGE

- Applications, documents, credit checks and compliance ran in disconnected systems
- Complex, rule-driven mortgage workflows needed manual reviews
- Brokers and banks each worked with different processes

WHAT WE BUILT

Loan Manager

Digital 1003 applications, milestones, credit checks and LOS sync.

Vision dashboard

AI income, expense and liability summaries, with EMI and risk flags.

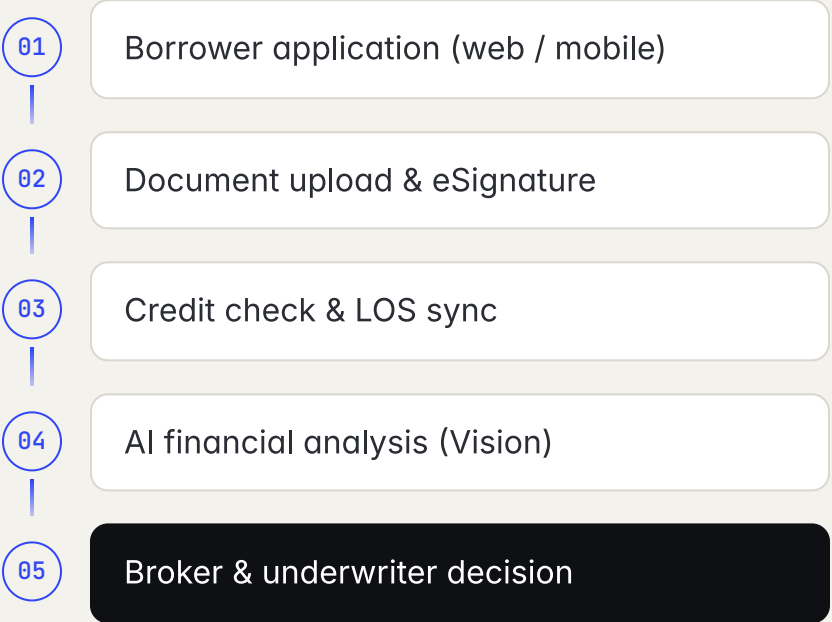
Admin dashboard

Roles, billing plans, integration monitoring and audit trails.

Borrower experience

Mobile-first applications, eSignature and live status.

HOW IT WORKS



OUTCOMES

- ✓ Origination, documents and financial insight unified
- ✓ AI guides applications and validates data, while humans stay in control for compliance
- ✓ Integrations with CRMs, LOS and credit providers

An agent-orchestrated doctor-to-doctor teleconsultation platform

THE CHALLENGE

- Junior doctors needed real-time guidance from senior specialists
- Telemedicine tools served patient-to-doctor use, not doctor-to-doctor collaboration
- Verification, payouts and compliance were handled manually

WHAT WE BUILT

Doctor dashboard

Consultant search, video/audio, encrypted chat, prescriptions.

Admin dashboard

Verification, audit trails, payouts and reporting.

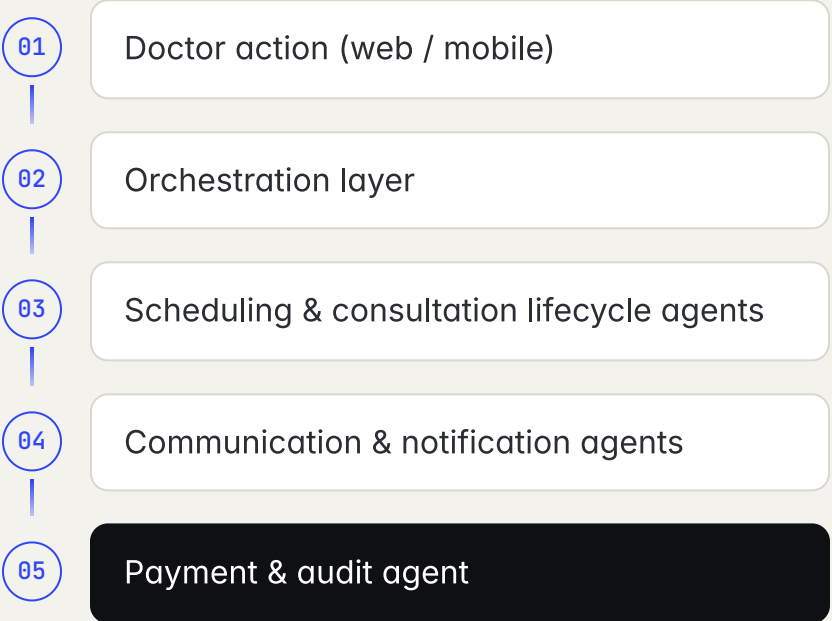
iOS & Android apps

Instant requests and push alerts, tuned for unstable networks.

Workflow agents

Scheduling, lifecycle, communication, notification, payment.

HOW IT WORKS



OUTCOMES

- ✓ Faster access to senior expertise
- ✓ Less manual coordination between doctors
- ✓ Centralised admin control and compliance

STACK

AWS

Firebase

Google Meet

iOS

Android

Encryption · RBAC

Making business architecture actionable, traceable and decision-ready

THE CHALLENGE

- Strategy documents were disconnected from delivery
- Architecture artefacts were scattered across tools and teams
- Governance was reactive, with weak traceability from goals to outcomes

WHAT WE BUILT

Governed metamodel

Capabilities, value streams, initiatives and controls linked by schema.

Document conversion

Objectives, initiatives, risks and dependencies extracted into the model.

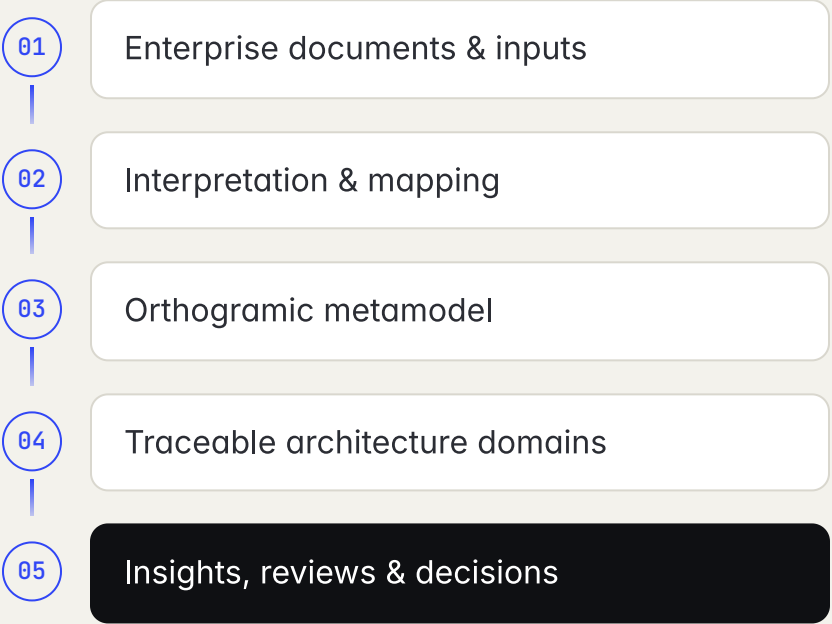
Strategic alignment

Gaps, overlaps and misalignment surfaced.

Continuous assurance

Traceability from policy to control to delivery.

HOW IT WORKS



OUTCOMES

- ✓ A single, real-time view of the organisation
- ✓ Less manual architecture documentation
- ✓ Better audit readiness and compliance confidence

Turning live video into actionable intelligence at scale

THE CHALLENGE

- Recording video was easy, but processing it at scale was hard
- Near-real-time stream processing was needed
- Insights had to come from visual content without manual review

WHAT WE BUILT

Live recording & streaming

Low-latency ingestion of concurrent streams via AWS IVS.

Stream processing

Kinesis Video Streams for buffering, built to absorb spikes.

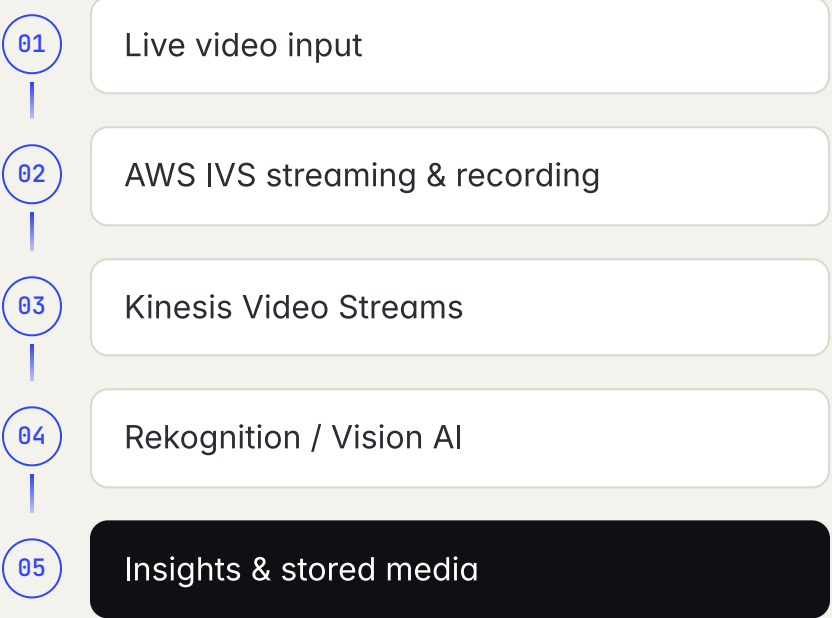
Vision analysis

Object detection, scene recognition and moderation.

Infrastructure as code

Entire stack versioned in CloudFormation.

HOW IT WORKS



OUTCOMES

- ✓ Reliable live recording at scale
- ✓ Automated insight extraction from video
- ✓ Faster provisioning and safer scaling

Turning raw eCommerce events into real-time business intelligence

THE CHALLENGE

- eCommerce event data sat in silos and arrived late
- Batch reports delayed decisions
- High-volume streams had to be processed without data loss

WHAT WE BUILT

Event tracking

Per-client Snowplow tracking for views, clicks, sessions and journeys.

Streaming pipeline

Fault-tolerant Kinesis ingestion that absorbs traffic spikes.

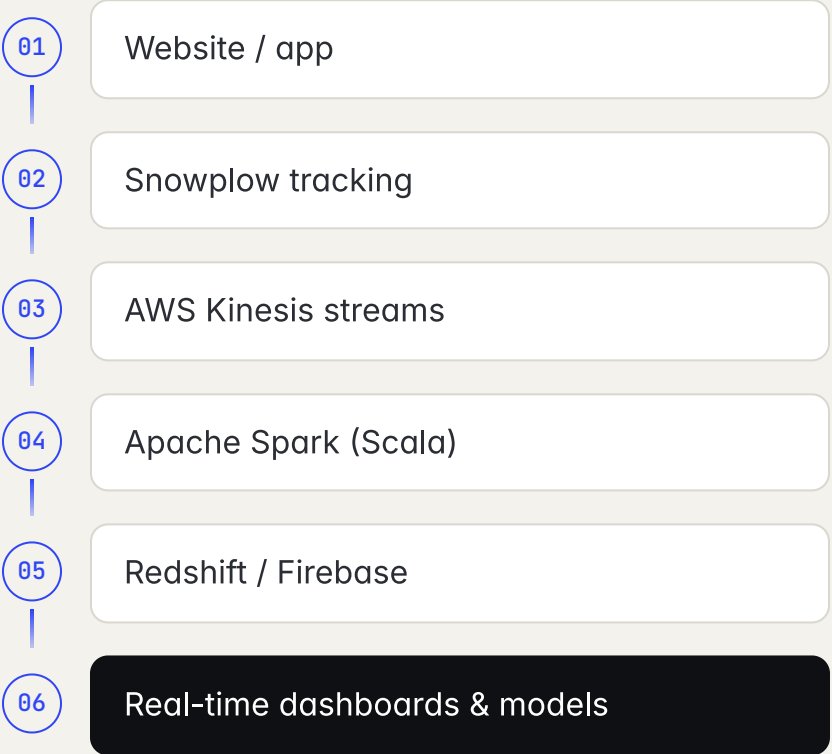
Spark processing

Scala jobs aggregate sessions, funnels and behaviour.

Decision dashboards

KPIs, deltas and journey views; AI-ready data.

HOW IT WORKS



OUTCOMES

- ✓ Real-time visibility into user behaviour
- ✓ Delays from batch analytics eliminated
- ✓ Foundation for AI-driven growth optimisation

An event-driven call-processing platform built for millions of calls

THE CHALLENGE

- Twilio callbacks need sub-second responses
- Complex call flows covered IVR, round-robin, billing, voicemail and whisper
- Zapier, webhooks, billing and reporting loads could not drop events

WHAT WE BUILT

Call-flow engine

Dynamic TwiML for IVR, round-robin, billing routing and voicemail.

External jobs framework

API Gateway → SQS FIFO → Lambda workers with retries.

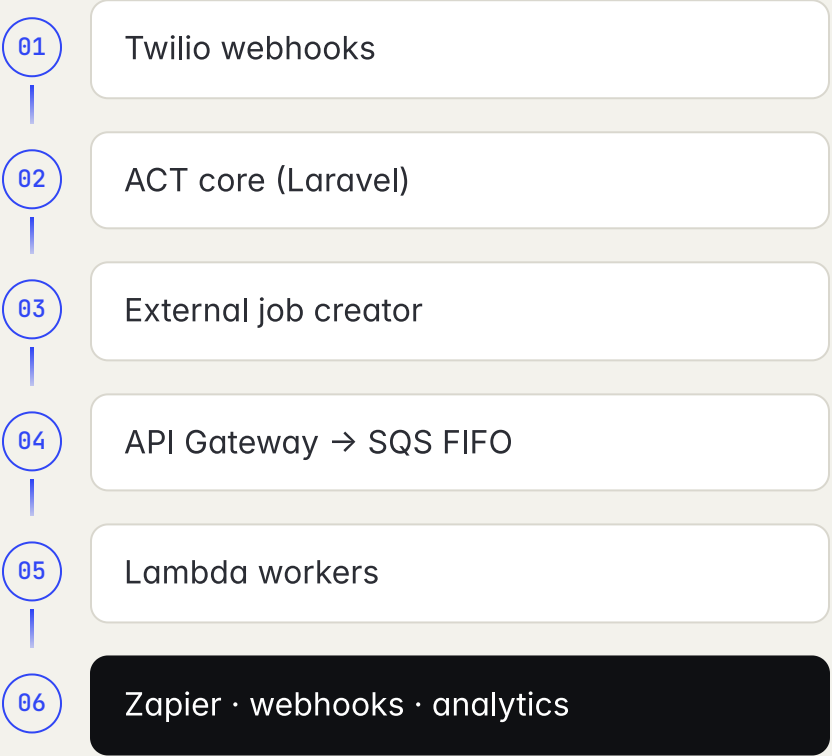
Zapier at scale

Real-time call triggers delivered asynchronously.

Call archive API

MongoDB + GraphQL history offloads MySQL.

HOW IT WORKS



IMPACT

Millions

of calls processed

< 1s

Twilio webhook responses

OUTCOMES

- ✓ Major reduction in timeout-related failures
- ✓ Horizontal scale through traffic spikes

STACK

Twilio

Laravel (serverless)

AWS Lambda

API Gateway

SQS · SNS

MySQL

MongoDB

GraphQL

Zapier

Exactly-once transaction processing for reporting APIs

THE CHALLENGE

- Duplicate transaction writes inflated reports and analytics
- Developers couldn't run Lambdas locally or reproduce production behaviour
- Deprecated fields added noise to reporting queries

WHAT WE BUILT

Idempotent writes

Conditional DynamoDB writes keyed on the transaction payload.

Race-safe ingestion

Consistent write paths for concurrent transactions.

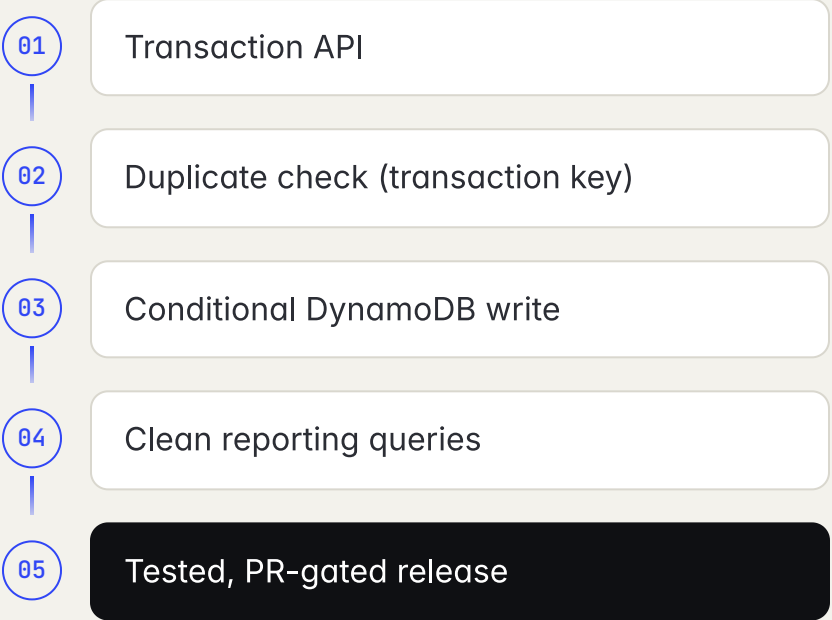
Unit-tested APIs

Duplicate detection, writes and queries covered.

Local Lambda setup

SAM-based local execution against an AWS dev environment.

HOW IT WORKS



IMPACT

0

duplicate transaction writes, even on retries

OUTCOMES

- ✓ Better reporting accuracy and consistency
- ✓ Faster developer onboarding and debugging

STACK

Node.js

AWS Lambda

DynamoDB

AWS SAM

Unit tests

GitHub PR workflow

A digital trade interface for one of India's oldest business houses

THE CHALLENGE

- No real-time control over content and trade processes
- Enquiries, documentation and reporting weren't centralised
- The brand presence didn't match the group's enterprise footprint

WHAT WE BUILT

Public trade portal

Products, HSN codes, Incoterms, process guides and lead capture.

Admin control layer

Content, enquiry status flows and trade documents in one place.

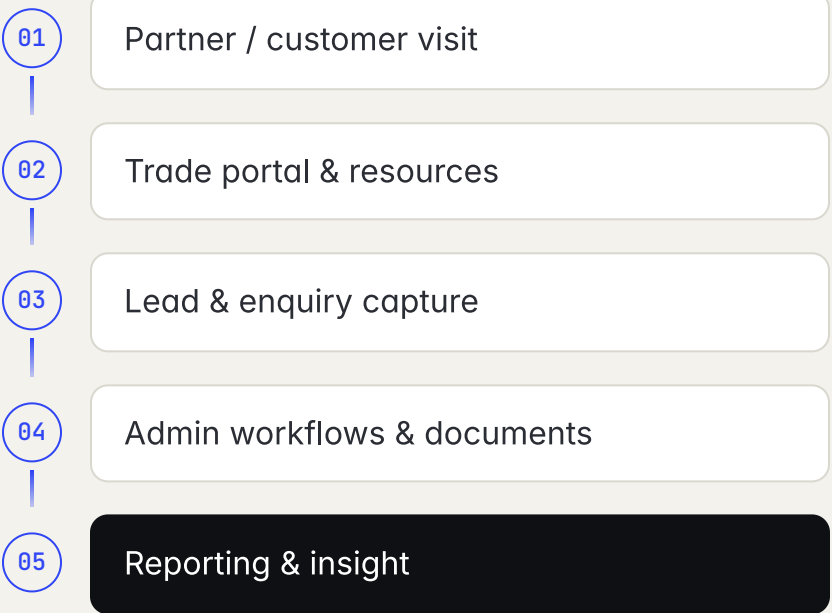
Role-based operations

Access controls and audit logs for regional teams.

Monitoring & reporting

Enquiry, conversion and regional engagement insight.

HOW IT WORKS



IMPACT

~70%

faster content & service updates

OUTCOMES

- ✓ Centralised lead and document management
- ✓ Consistent experience across geographies

STACK

Custom CMS

Admin portal

Partner APIs

SEO & caching

RBAC · audit logs

Making robotic arms safe, affordable and easy to use on real factory floors

THE CHALLENGE

- Industrial robots were expensive and complex to operate
- They were unsafe to work around without cages
- They were out of reach for small and mid-sized manufacturers

WHAT WE BUILT

Arm control system

Precise motion, speed and positioning with real-time feedback.

Guided task setup

Simple configuration for operators without robotics expertise.

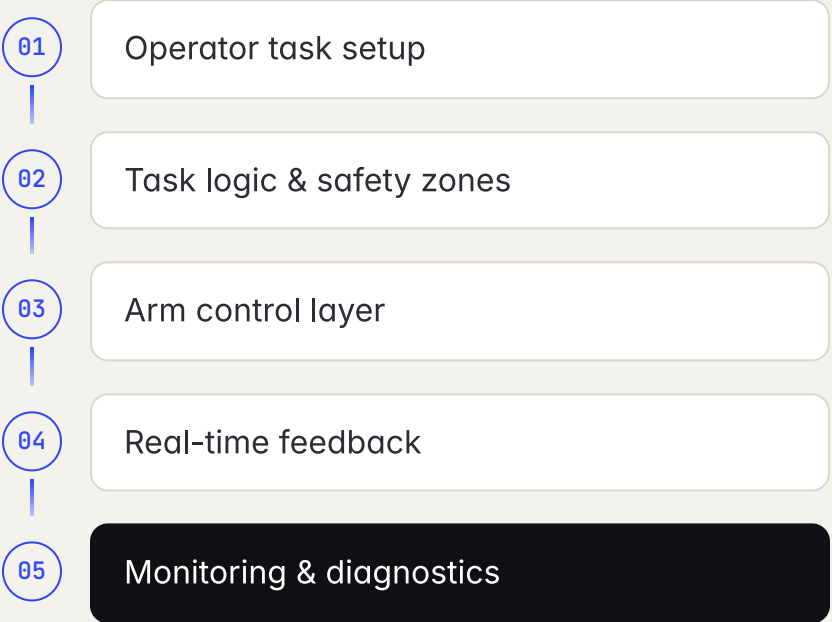
Safety by design

Controlled movement zones for shared human-robot workspaces.

Monitoring & diagnostics

Remote status, performance tracking, faster troubleshooting.

HOW IT WORKS



IMPACT

35–40%

less robot setup & configuration time

OUTCOMES

- ✓ Automation possible without robotics specialists
- ✓ More consistent repetitive tasks

STACK

Custom robotic control software

Operator UI

Adaptive task logic

Remote monitoring

From pilot to *governed* production.

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