

QuikAuthor — Architecture Overview

Authoring-only platform · No learner/end-user access

v1.0 · 2026

USERS (AUTHORING TEAM ONLY)

L&D Author / Admin

Creates, edits and exports training content. No learner or end-user accounts exist on the platform.

Web Browser

Accesses QuikAuthor via HTTPS. All sessions authenticated. Accounts can be anonymised if required.

↓ HTTPS / TLS 1.3

FRONTEND — PRESENTATION LAYER

React 18 SPA TypeScript

Single-page application. Course builder, slide editor, quiz tools, SCORM export.

Vercel CDN Edge

Global edge delivery. Automatic HTTPS. Zero-downtime deploys. ISO 27001 / SOC2 Type II certified host.

↓ Secure API / JWT Auth

BACKEND — DATA & AUTH LAYER (SUPABASE ON AWS)

PostgreSQL DB RLS

All tables protected by Row Level Security (RLS) and encrypted at rest (AES-256 via AWS RDS). Each org's data is isolated at the database level.

Auth (GoTrue)

JWT-based authentication. Email / SSO login. Session management and role-based access.

Object Storage S3

Encrypted S3-compatible storage for uploaded images and video assets. AES-256 at rest.

Edge Functions Deno

Stateless serverless functions for API orchestration. No persistent runtime state.

↓ Secure API Calls (no data retained)

Google Gemini API AI

Stateless API calls via Google Gemini (Enterprise). Prompts and content are not used for global model training per Google's Data Processing Addendum.

AssemblyAI Transcription

Video transcription for AI-assisted course creation from uploaded video files.

Video Microservice Railway

Isolated video processing service. Separate from core application data and database.

Stripe Billing

Secure payment processing. No card data is stored in QuikAuthor — all billing data is held exclusively by Stripe (PCI DSS Level 1 certified).

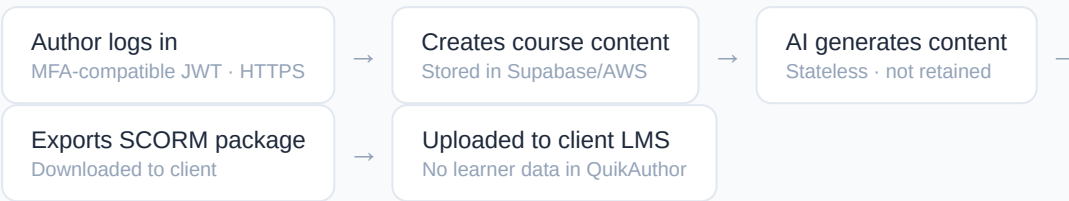
↓ SCORM Package (exported to client LMS – no data returns)

OUTPUT — CLIENT LMS

SCORM 1.2 / 2004 Package

Completed courses are exported as a self-contained SCORM package and uploaded directly to the client's LMS. Learner tracking happens entirely within the client's own LMS — not in QuikAuthor.

DATA FLOW SUMMARY



Data stored in QuikAuthor is limited to: author account details, course content, and uploaded assets (images/video). No learner data, completion records, or tracking data is held in QuikAuthor at any time. Author accounts can be anonymised on request. Infrastructure providers (Supabase/AWS, Vercel) hold ISO 27001 and SOC 2 Type II certification.