

Growqr Project Technology Mapping Report

This report outlines the core modules of the Growqr platform, detailing the primary technologies and infrastructure components responsible for delivering each feature.

Module	Core Functionality	Frontend Technology	Backend Microservice (FastAPI)	Database/Indexing	AI/Special Technology
1. Sign-In / Sign-Up	Authentication, Phone/Email Verification, Bulk User Onboarding (Whitelabel), Paid User E-Verification.	React / Next.js, React Native	Auth Service	PostgreSQL, Redis (Sessions, Rate Limits)	Third-Party Integrations (Verification)
2. Onboarding	Guided profile setup (Resume, Purpose, Social, Video, etc.).	React / Next.js, React Native	Onboarding Service	PostgreSQL	-
3. User Profile Settings	Management of user data, preferences, and security settings.	React / Next.js, React Native	Auth Service	PostgreSQL	-
4.	Personalize	React /	Dashboard	PostgreSQL	AI

Dashboard	Provides Progress, Quick Links, Notifications, AI Recommendations, Weekly Summary (USP: Centralized command center).	Next.js, React Native	Service	, Redis, ElasticSearch	Orchestration (Recommendation Logic)
5. Roleplay	AI-driven immersive learning simulations, Week-wise structured content, Feedback & Improvement. (USP: AI-driven immersive roleplay).	React / Next.js, React Native	Roleplay Service	PostgreSQL , File Storage (S3/GCS)	C-RAG Pipeline, LLMs, Vector DB
6. Practice	Marketplace of real-world use cases, Virtual Interview Simulator, Instant scoring + feedback. (USP: AI-powered industry-specific practice).	React / Next.js, React Native	Practice Service	PostgreSQL	C-RAG Pipeline, LLMs

7. Resume Builder	Auto-fetch/ Manual entry, Templates, AI ATS Scoring, Keyword suggestions, PDF/QR Export. (USP: Smart creation with AI-based ATS optimization).	React / Next.js	Resume Service	PostgreSQL , File Storage (S3/GCS)	LLMs (ATS Scoring, Keyword Suggestion)
8. Matchmaking	Matches to Jobs, Mentors, Events. Filtering, Direct Apply, Auto Job Apply. (USP: Intelligent matchmaking engine).	React / Next.js, React Native	Matchmaking Service	PostgreSQL , ElasticSearch (High-perf search)	n8n Automation , Bright Data (Ingestion)
9. Content Generator	AI creates Cover letters, Social posts, Hashtags, Optimized engagement. (USP: One-click	React / Next.js	Content Generator Service	PostgreSQL	LLMs, AI Orchestration

	AI content creation).				
10. Inbox	Unified notifications, Categorized, Deep links, Real-time updates. (USP: Centralized notification hub).	React / Next.js, React Native	Notification Inbox Service	PostgreSQL	WebSockets (Soketio)
11. Assessment	MCQs, Case studies, Role-specific evaluations, Skill gap report. (USP: AI-led employer-style interview assessment).	React / Next.js	Assessment Service	PostgreSQL	LLMs (Scoring, Gap Analysis)
12. QR Code	Generate QR linked to resume/video, Analytics. (USP: Professional networking QR system).	React / Next.js	QR Generator Service	PostgreSQL, Analytics Service	-

13. Incentive Token (Gamification)	Management of gamification points and rewards.	React / Next.js, React Native	Payment Service	PostgreSQL	-
14. Conversational Chatbot (Dadaji)	Personalized AI Mentor Chatbot.	React / Next.js, React Native	AI Orchestration Service	Vector DB, PostgreSQL	C-RAG Pipeline, LLMs
15. Payment Gateway	Subscription management, Transaction processing, Billing.	React / Next.js	Payment Service	PostgreSQL	Third-Party Gateway Integration
16. Archive/Purge Rules	Data retention and clean-up automation.	-	Archival/Purge Service (Django CRONs)	PostgreSQL, Object Storage (S3/GCS)	-
17. Third-Party Integrations	Email, SMS, External Alerts.	-	Alerts Service	-	n8n Automation

Project Infrastructure and Stack Summary

Layer	Primary Technology	Key Components / Tools	Function
Frontend	Next.js (Web), React Native (Mobile)	React, Tailwind CSS, TanStack Query,	User Interface, Server State Management,

		Component-driven UI	Styling, Mobile Portability
Backend	Python FastAPI	Django Admin (Backoffice), REST + GraphQL, WebSockets (Soketi)	High-performance API delivery, Business Logic, Internal Tools, Real-time Communication
API Gateway	Kong Gateway	JWT Plugin, Rate-Limiting, Analytics, CORS	Edge Security, Centralized Routing, Traffic Management, Observability
Data Storage	Polyglot Persistence	PostgreSQL (Relational/Primary Data), Redis (Caching), ElasticSearch (Search/Indexing), Vector DB (pgvector/Pinecone /Chroma)	Structured data, High-speed caching, Full-text search, Semantic search
Artificial Intelligence	Generative AI	C-RAG Pipeline, LLMs (Various), Embeddings Workflow, MCP (Model Context Protocol)	Personalized content generation, Roleplay simulation, Intelligent scoring, Chatbot
DevOps/Deployment	GitLab CI/CD	Docker, AWS/GCP (Cloud), Load Balancing, Multi-environment lifecycle (Dev, Staging, Prod)	Automated pipeline, Containerization, Cloud Hosting, Infrastructure Management
Automation	n8n	Webhooks, External API Connectors, Internal	Low-code workflow automation for data ingestion, alerts,

		Microservice APIs	and complex multi-step processes
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