**Prompt for Replit — LoadLink Africa (FULL, with Security + Legal/AML added)**

**Build a full-stack, mobile-responsive web application** for a truck loading board platform named **LoadLink Africa** (website: **loadlink.africa**). Use **React.js** (frontend with **Tailwind CSS**, blues/greens aesthetic, e.g., bg-blue-600, text-green-500, Inter font), **Node.js/Express** (backend), **MongoDB** (database with indexing for scalability), **Socket.io** (real-time chat/job updates), **Redis** (caching for job searches and notification fallback), and **DPO** (Botswana-based payment gateway with multi-currency support). Implement **JWT authentication**, **email verification (Nodemailer)**, **reCAPTCHA**, **2FA** (email OTP and/or authenticator app; SMS optional if available), and **RBAC** for roles (Trucking Company, Shipping Entity, Super Admin, Customer Support Admin). Ensure **HTTPS**, **password hashing (bcrypt)**, **rate limiting**, **audit logs**, and **WCAG-compliant accessibility** (ARIA labels, Lighthouse testing). Deploy on **Vercel** for scalability. The platform connects Trucking Companies (carriers) with Shipping Entities (shippers: companies, entities, individuals) in Botswana and beyond.

**SEO Optimization**

Design the platform to rank highest in searches for "truck loading board platforms," "freight matching Africa," "load board Botswana," "best truck loads," and related terms. Optimize for visibility in AI platform searches (e.g., "AI-powered truck loading boards," "freight platforms built with AI like Grok, ChatGPT, DeepSeek, Perplexity").

**Meta Tags (React Helmet on all pages):**  
Title: e.g., "LoadLink Africa - Best Truck Loading Board Platform in Botswana | Freight Matching Service"  
Description: e.g., "Connect trucking companies and shipping entities with LoadLink Africa, the premier AI-powered load board for efficient freight hauling in Botswana and Africa. Real-time updates, secure DPO payments."  
Keywords: "truck loading board, load board Botswana, freight matching Africa, truck loads, shipping platform, AI freight platform"  
Open Graph (OG) and Twitter Cards for social sharing.

**Structured Data (JSON-LD):**

* **Organization:** LoadLink Africa, Botswana, freight matching.
* **Service:** Freight Matching Service, areaServed: "Africa".
* **BreadcrumbList** for navigation.
* **FAQPage** for /faq.

**Content Optimization:** Use keywords in headings, content, and alt text. Add a /blog with posts like "How AI Powers Truck Loading Boards" mentioning Grok, ChatGPT, DeepSeek, Perplexity.  
**Technical SEO:** Generate sitemap.xml and robots.txt (allow crawlers: GrokBot, ChatGPT-User, Googlebot). Ensure fast loading (lazy-load images, minify CSS/JS, use CDN). Mobile-first, HTTPS, canonical tags. Integrate Google Analytics & Search Console. Support LLM crawlers with semantic HTML. Long-tail keywords: "free truck load board Africa," "AI-built freight platform Botswana."

**Sign-Up and Authentication**

**Homepage CTAs:** Prominent buttons: **“Sign Up as Trucking Company”** and **“Sign Up as Shipping Entity”** (bg-green-500, centered).

**Sign-Up Flow:** Email/password, reCAPTCHA, email verification link, **mandatory checkbox for Terms and Conditions (/terms) and Privacy Policy (/privacy)**, redirect to role-specific dashboards.  
For **Trucking Companies**, include **document upload** (business license, permits) for **admin verification** (access gated until approved).

**Trucking Company Fields:**

* Company Name
* Contact Person Name
* Email Address
* Phone Number
* Physical Address (city, postal code, country – default Botswana)
* Business Registration Number (or ID for individuals)
* Fleet Size (number of trucks)
* Cargo Types (checkboxes: General, Refrigerated, Hazardous, Bulk, Containers)
* Payment Preference (Card via DPO, Bank Transfer – optional)
* Password/Confirm Password
* Document Upload (PDF/image for license, permits)

**Shipping Entity Fields:**

* Company/Individual Name
* Contact Person Name
* Email Address
* Phone Number
* Physical Address (city, postal code, country)
* Business Registration Number (if applicable)
* Password/Confirm Password

**Security:**

* **2FA** (added): Optional per user; supports **email OTP** and **authenticator app (TOTP)**; prompt after password login. Recovery codes downloadable once.
* Limit Trucking Companies to **3 simultaneous logins** (track JWT sessions; logout oldest if exceeded).
* HTTPS everywhere, strong input validation & server-side sanitization, rate limiting, IP/device fingerprinting for fraud defense.

**Account Recovery:** Password reset via email (secure token, reCAPTCHA), **account unlock after 5 failed logins** (unlock via email with reCAPTCHA).

**Subscription Model**

**Trucking Companies:**

* Pay **BWP 500/month (30 days)** or **BWP 4,499/year** (10% discount from BWP 6,000).
* **Benefits:** Unlimited job access, real-time notifications, chat, analytics dashboard (jobs applied, completed, delivery times, revenue via Chart.js), 3 simultaneous logins.
* **Auto-renewal toggle** (default **off** unless explicitly enabled).
* **Grace period:** 3 days after failed renewal before access is cut.
* Multi-currency supported via DPO (BWP, ZAR, USD).
* **Alternative payment:** Bank transfer option (display: “Email proof to [support@loadlink.africa](mailto:support@loadlink.africa)”).
* Cancellation via settings; **pro-rate annual refunds**.

**Shipping Entities:** Free to post/manage jobs.

**Access Control:** Block job access for lapsed subscriptions (show **“Renew Now”** banner).

**Job Posting and Management**

**Shipping Entity Job Form:**

* Cargo Type (General, Refrigerated, Hazardous, Bulk, Containers)
* Cargo Weight (kg/tons)
* Cargo Volume (m³)
* Pickup Address (text + optional Google Maps API for GPS)
* Delivery Address (text + optional map)
* Pickup Date/Time
* Delivery Deadline
* Special Handling (e.g., permits, refrigeration)
* Payment Terms (rate, method)
* Notes (optional)
* **Insurance Option** (checkbox: “Requires insurance”; **Display disclaimer: “LoadLink Africa does not provide insurance. If selected, you must arrange coverage directly with external providers.”**)
* Industry (Agriculture, Manufacturing, Retail, Mining, Logistics, Construction)
* Pickup Country (Botswana, South Africa, Namibia, Zimbabwe, etc.)
* Delivery Country (same list)

**Bulk Job Posting:** CSV import with validation (cargo type, industry, country, etc.).

**Job Matching:** Recommendation system suggests jobs to Trucking Companies based on fleet size, cargo types, **location proximity** (pickup/delivery country), and ratings. Use MongoDB queries and Redis caching.

**Display:** Jobs as cards (key-value, e.g., “Cargo: 5 tons | Pickup: Gaborone | Industry: Agriculture”) on Trucking dashboard.  
Filters: location, cargo type, industry, pickup country, delivery country; sort by newest or relevance (matching score). Cache results in Redis.

**Real-Time:** Socket.io for instant job updates. Firebase email/in-app notifications for matching jobs and status changes (customizable via settings).

**Shipping Dashboard:** View own jobs; buttons to mark **Taken** (hides job) or **Completed** (archives). Add rating/review option post-completion.  
**Trucking Dashboard:** Browse active jobs with filters for industry and country, initiate chats (if not Taken/Completed), view Shipper ratings.

**Job Status Notifications:**  
For **Shipping Entities**:

* When job is marked “Taken”: “Your job [Job ID] has been taken by [Trucking Company Name].”
* When job is marked “Completed”: “Your job [Job ID] has been marked as completed by [Trucking Company Name].”

For **Trucking Companies**:

* When they take a job: “You have taken job [Job ID] from [Shipping Entity Name].”
* When job is marked “Completed” by Shipper: “Job [Job ID] has been marked completed by [Shipping Entity Name].”

Notifications configurable via settings (email/in-app); stored in MongoDB notifications collection; delivered via Firebase with Redis fallback.

**Chat Feature**

Real-time chat (Socket.io) between Trucking Companies and Shipping Entities.  
Accessible from job card; **disabled if Taken/Completed**.  
Private, logged in MongoDB chats collection.

**Dashboards**

**Trucking:** Real-time job list (industry/country filters), subscription status, chat inbox, analytics (Chart.js: jobs applied, completed, revenue), feedback form.  
**Shipping:** Own jobs, statuses, chats, analytics (Chart.js: job completion rates, carrier performance), feedback form.  
**Data Export:** Export job logs, analytics, and dispute records as CSV/PDF.  
**RBAC:** Restrict cross-data access.

**Dispute Resolution (Product Feature)**

Add a dispute resolution system in dashboards:  
Form to submit disputes (job ID, issue description, evidence upload).  
**Admin mediation** (Super Admin/Customer Support) with ticket tracking.  
Log disputes in MongoDB (disputes collection).

**Invoicing and Tax Compliance**

Generate **PDF invoices** for subscriptions (Trucking Companies) and job payments (Shipping Entities), accessible from dashboards.  
Include: invoice number, date, user details, amount, payment method, and note that **VAT is not applied** (per Botswana’s thresholds; subject to change).  
Store invoices in MongoDB (invoices collection) for admin access and user downloads.

**Notification Preferences**

Allow users to customize notifications (email, in-app) for events: job matches, payment confirmations, dispute updates, subscription status, job status changes (Taken/Completed).  
Settings page with toggles for each event type; default to **in-app** for job matches/status, **email** for payments/disputes.

**Insurance Resources (Info Only)**

Add a /resources page with links to external cargo insurance providers (e.g., “Protect your cargo with trusted insurers”).  
**Clear disclaimers**: LoadLink Africa does **not** provide insurance or insurance advice; users must arrange coverage directly with third parties.

**Localization**

Support multi-language via i18n (English, Swahili, French, Portuguese).  
Auto-detect user language; allow manual selection in settings.  
Localize address formats (e.g., Botswana vs. other African countries).

**Performance Monitoring**

Implement Prometheus to monitor Socket.io (chat, job updates) and Firebase (notifications) performance, tracking latency and uptime.  
Use Redis as a fallback queue for notifications if Firebase fails.  
Configure admin alerts (email to Super Admin) for outages or performance issues (e.g., latency > 1s).

**User Feedback Collection**

Feedback form in dashboards (“Suggest a Feature” or “Report a Bug”) with: user ID, category (feature, bug, other), description.  
Store in MongoDB feedback collection; allow Super Admin/Customer Support to review & categorize.  
Notify users of feedback status via email/in-app.

**Analytics**

**User Dashboards:**

* Trucking: Jobs applied, completed, delivery times, revenue (Chart.js).
* Shipping: Job completion rates, carrier performance (Chart.js).

**Admin Dashboard:** Platform metrics (users, jobs, revenue, disputes, matching success: % jobs accepted, average time to match) via Chart.js, stored in MongoDB.

**Admin Interface**

**Super Admin (/admin):** Create admin/support accounts (form: email, role, temp password), view platform metrics (users, jobs, revenue, disputes, matching success via Chart.js), manage users (edit/suspend, verify documents), update Terms/Privacy/FAQs (Quill.js editor), view/export invoices, review **audit logs** and feedback.

**Customer Support Admin:** View/respond to tickets, disputes, and feedback; edit FAQs; see support metrics (ticket volume, resolution time).  
**Audit Logs (added):** Log all admin and key user actions (e.g., login attempts, 2FA events, user suspension, document verification, payment updates, job status changes) in MongoDB auditLogs collection with timestamp, actor, IP/device, and before/after snapshots where appropriate.

**Data Backup and Recovery**

Automated MongoDB backups (daily, stored securely on Botswana-compliant servers).  
Recovery protocol (restore from backups within 24 hours).

**Security Enhancements (ADDED)**

* **2FA:** Optional per user; supports **email OTP** and **authenticator app (TOTP)**; recovery codes; enforced step-up auth for sensitive actions (changing email/password, disabling 2FA, adding payment method).
* **Audit Logs:**
  + Capture: logins (success/failure), password resets, 2FA setup/disable, subscription changes, payments (success/failure), job CRUD/status changes, chat initiations, admin actions.
  + Retention: minimum **12 months** (configurable).
  + Access: Super Admin only; exportable CSV/PDF.
* **Session Management:** Short-lived access tokens + refresh tokens; server-side revocation on logout/all-devices; **3-device** limit enforcement with device labeling and “log out all devices” button.
* **Rate limiting & anomaly detection:** Per-IP and per-account throttles; flag unusual patterns (sudden mass job posts, repeated failed payments); send alerts to admins.

**Legal & Compliance (ADDED)**

* **Dispute Resolution & Jurisdiction:**
  + User-to-user disputes (shipper vs trucker) are **between the parties**; platform provides tools for communication and optional mediation only.
  + Any dispute involving LoadLink Africa must first attempt **informal resolution** via the in-platform dispute/ticket system and [**support@loadlink.africa**](mailto:support@loadlink.africa).
  + If unresolved within 30 days, disputes shall be referred to **confidential arbitration in Gaborone, Botswana** (Botswana Institute of Arbitrators rules).
  + Governing law: **Republic of Botswana**.
* **AML / Fraud Alignment:**
  + KYC checks for trucking companies via document verification (admin approval before full access).
  + Email/phone verification for shippers.
  + Payment monitoring: flag repeated failed transactions, mismatched card country vs profile, or unusual subscription churn.
  + Suspend/limit accounts pending review; document reviews recorded in **audit logs**.
  + The platform **does not validate cargo legality** but may remove listings and suspend accounts suspected of illegal activity; cooperate with lawful requests.
* **Insurance Disclaimer:** LoadLink Africa does **not** provide insurance, act as a broker, or give insurance advice; shippers and carriers are solely responsible for arranging any coverage.

**Terms and Conditions (/terms)**

**Last Updated: August 23, 2025**  
Welcome to LoadLink Africa (the “Platform”), accessible at loadlink.africa, operated by LoadLink Africa (Pty) Ltd, a company registered in Botswana. By accessing or using the Platform, you (“User,” including Trucking Companies and Shipping Entities) agree to be bound by these Terms and Conditions (“Terms”). If you do not agree, do not use the Platform. These Terms are governed by the laws of Botswana.

**Platform Purpose**  
LoadLink Africa is a freight-matching platform connecting Trucking Companies (carriers) with Shipping Entities (shippers, including companies, entities, or individuals). We provide tools for job postings, communication, analytics, ratings, dispute ticketing, invoicing, feedback, account recovery, **2FA**, and **audit logging**, but **do not participate in or control** transactions, deliveries, or agreements between Users, and **do not provide insurance**.

**Eligibility**

* Users must be 18 or older and legally capable of entering contracts.
* Trucking Companies must provide accurate fleet, registration, and document details for admin verification.
* Shipping Entities must provide accurate contact and cargo details.
* False information may lead to suspension.

**User Accounts & Security**

* Sign-up requires accurate details, email verification, document upload (Trucking Companies), and acceptance of these Terms and the Privacy Policy.
* Trucking Companies: Up to **3 simultaneous logins**; exceeding may log out the oldest session.
* Optional **2FA** available; we may require 2FA for high-risk activity.
* We maintain **audit logs** of key actions for security and compliance.
* Users are responsible for passwords and all account activity; notify [support@loadlink.africa](mailto:support@loadlink.africa) of any unauthorized access.

**Subscriptions and Payments**

* Trucking Companies: BWP 500/month or BWP 4,499/year (via DPO or bank transfer). Access to job postings requires an **active subscription**. Invoices generated (VAT not applied per current thresholds).
* Shipping Entities: Free to post jobs.
* Auto-renewal optional; cancel anytime via settings. Annual plan refunds may be pro-rated at our discretion.
* Non-payment results in suspension of job access.
* We are not liable for payment disputes or transaction errors with third-party processors.

**User Responsibilities**

* Trucking Companies: Ensure legal, safe cargo transport per agreements with shippers; provide ratings post-job.
* Shipping Entities: Provide accurate job details; promptly mark jobs as Taken/Completed; provide ratings.
* Compliance with Botswana and applicable cross-border laws is required.
* Prohibited: Fraud, harassment, illegal cargo, platform misuse.

**Platform Limitations and Liability**

* The Platform is provided “as is” without warranties.
* We do not guarantee job availability, performance, or outcomes.
* **No insurance** is provided.
* Users indemnify LoadLink Africa for claims arising from their use. (Optional: cap liability to fees paid in last 12 months.)

**Termination**

* We may suspend or terminate for violations (non-payment, fraud, abuse).
* Users may cancel; outstanding fees remain due.
* Upon termination, access to jobs/chats/data may be revoked subject to legal retention.

**Force Majeure**  
We are not liable for delays/failures caused by events beyond our control.

**Dispute Resolution; Governing Law**

* User-to-user disputes are between those Users; we may assist via tickets/mediation tools but are not a party.
* Disputes with LoadLink Africa: informal resolution first; failing that, **arbitration in Gaborone, Botswana** per the Botswana Institute of Arbitrators; Botswana law governs; exclusive jurisdiction in Gaborone courts for enforcement matters.

**Changes to Terms**  
We may update these Terms; continued use after changes implies acceptance. Updates posted at /terms.

**Contact**  
[support@loadlink.africa](mailto:support@loadlink.africa)

**Privacy Policy (/privacy)**

**Last Updated: August 23, 2025**  
LoadLink Africa (Pty) Ltd (“we,” “us,” “our”) operates loadlink.africa and is committed to protecting your privacy in compliance with Botswana’s **Data Protection Act, 2018**. By using the Platform, you agree to this Policy.

**Data We Collect**

* **Registration Data:** Names, emails, phone numbers, addresses, business registration numbers, fleet details, documents (Trucking Companies).
* **Payment Data:** Processed via **DPO** or bank transfers; we do not store full card numbers.
* **Usage Data:** Job postings, chat logs, ratings, dispute records, invoices, feedback, notifications, device info, IP, login times, preferences.
* **Security Data (added):** 2FA configuration (e.g., TOTP secret), recovery codes (hashed), **audit logs** of key actions.
* **Support Data:** Messages and attachments sent via support or disputes.
* **Analytics Data:** Aggregated/anonymous metrics on Platform usage.

**How We Use Data**

* Create/manage accounts; authenticate (including **2FA**); verify emails/documents; recover accounts.
* Provide services: matching, jobs display, chat, ratings, disputes, invoices, notifications.
* Process payments; generate/store invoices.
* Improve Platform via analytics.
* **Security & Compliance:** fraud detection, AML-aligned monitoring, **audit logging**.
* Legal compliance and responding to lawful requests.
* Optional marketing with consent (opt-out anytime).

**Sharing**

* Between Users: job-related contact and details necessary to coordinate.
* Service Providers: DPO, email delivery, hosting/monitoring vendors under confidentiality.
* Legal Compliance: Where required by law or court order.
* We do not sell data for third-party marketing.

**Security**

* HTTPS, encryption in transit; hashed passwords; access controls.
* **2FA** support; **audit logs** retained for at least 12 months.
* Regular backups; breach notification to users and the Data Protection Authority within statutory timelines.

**Your Rights (Botswana DPA 2018)**  
Access, correction, deletion (subject to retention duties), objection to marketing, and complaint to the Data Protection Authority. Contact [**support@loadlink.africa**](mailto:support@loadlink.africa).

**Cookies & Tracking**  
Session, authentication, and analytics cookies; manage via browser settings (functionality may be affected).

**Data Retention**

* Tax/financial records: 7 years (or as required).
* Inactive accounts: deleted after 12 months of inactivity (with prior notice).
* Job/chat/rating/dispute/invoice/feedback/notification data archived and deleted after 24 months unless legally required.
* **Audit logs:** retained minimum 12 months.

**Cross-Border Transfers**  
Data may be processed outside Botswana with safeguards and contracts ensuring adequate protection.

**Updates**  
Policy updates posted at /privacy; continued use indicates consent to changes.

**Contact**  
[support@loadlink.africa](mailto:support@loadlink.africa)

**FAQs (/faq)**

* **What is LoadLink Africa?**  
  Connects Trucking Companies and Shipping Entities for efficient freight in Botswana and beyond.
* **How do I sign up?**  
  Click Trucking/Shipping, fill the form, verify email, upload documents (Trucking), accept Terms/Privacy.
* **Are there fees for Shipping Entities?**  
  No. It’s free to post/manage jobs.
* **What are the trucking subscription costs?**  
  BWP 500/month or BWP 4,499/year (10% off). Includes jobs, chats, analytics, 3 logins.
* **What happens if my subscription lapses?**  
  Job access is blocked; a Renew banner will appear. 3-day grace period after failed renewals.
* **Can I pay by bank transfer?**  
  Yes. Email proof to [support@loadlink.africa](mailto:support@loadlink.africa) for manual confirmation.
* **Do you send notifications?**  
  Yes—email/in-app for new jobs, payments, disputes, and job status (you can customize).
* **How is my data secured?**  
  Encryption, hashed passwords, **2FA**, and **audit logs**. See /privacy.
* **Do you resolve disputes between shippers and truckers?**  
  We offer tools and optional mediation, but disputes are between the parties. Platform disputes follow arbitration in Gaborone (see /terms).
* **Can I cancel my subscription?**  
  Yes—via settings. Annual plans may receive pro-rated refunds.
* **How does chat work?**  
  Trucking Companies can message Shipping Entities on **Open** jobs only.
* **Is there a device limit?**  
  Yes—3 simultaneous logins for Trucking accounts (manage devices in settings).
* **Do you provide insurance?**  
  **No.** Users arrange their own coverage. We provide links to external providers on /resources.
* **Can I export my data?**  
  Yes—CSV/PDF exports for jobs, analytics, and disputes.
* **How do I recover my account?**  
  Use password reset or account unlock via email (with reCAPTCHA).
* **How long do you keep logs?**  
  Key **audit logs** are kept for at least 12 months.

**UI/UX**

**Design:** Mobile-first, blues/greens (bg-blue-50, text-green-600), Inter font, sidebar menu, search bar, dashboard layout. Use ARIA labels for WCAG compliance (e.g., aria-label="Job card"). Test with Lighthouse.

**Wireframe (Homepage):**

<div className="min-h-screen bg-blue-50">

<header className="bg-blue-600 text-white p-4">

<h1 className="text-2xl">LoadLink Africa</h1>

<nav className="flex gap-4">Home | About | Pricing | FAQ | Support | Resources</nav>

</header>

<section className="p-6 text-center">

<h2 className="text-4xl text-blue-800">Connect Haulers & Shippers</h2>

<div className="flex gap-4 justify-center mt-4">

<button className="bg-green-500 text-white p-2 rounded">Sign Up: Trucking</button>

<button className="bg-green-500 text-white p-2 rounded">Sign Up: Shipping</button>

</div>

</section>

<section className="p-6 grid gap-6">

<div>About: Streamline freight with AI-powered matching...</div>

<div>Pricing: Monthly BWP 500 | Annual BWP 4,499</div>

<div>FAQ: Accordion with questions</div>

<div>Support: Form for queries</div>

</section>

<footer className="bg-blue-800 text-white p-4">

Links: <a href="/terms">Terms</a> | <a href="/privacy">Privacy</a> | <a href="/faq">FAQ</a> | <a href="/support">Support</a> | <a href="/resources">Resources</a>

</footer>

</div>

**Replit Implementation Notes**

**Pages:** /, /terms, /privacy, /faq, /support, /resources, /admin, /dashboard (Trucking/Shipping), /reset-password, /unlock-account.

**MongoDB Schemas (with Security/AML additions):**

* users: { role, email, passwordHash, subscriptionStatus, devices: [{ token, label, lastActive, ip }], termsAccepted, privacyAccepted, documents: [{ fileUrl, verified }], notificationPreferences: { jobMatches: { email, inApp }, payments: { email, inApp }, disputes: { email, inApp }, jobStatus: { email, inApp } }, twoFA: { enabled, method: 'email'|'totp', secretHash, recoveryCodesHash: [string] }, failedLoginCount, lastLoginAt }
* jobs: { creatorId, cargoType, weight, volume, pickup, delivery, status: 'Open'|'Taken'|'Completed', insuranceRequired, industry, pickupCountry, deliveryCountry, createdAt, updatedAt }
* chats: { jobId, senderId, receiverId, messages: [{ senderId, body, sentAt }] }
* disputes: { jobId, userId, description, evidence: [file], status: 'open'|'review'|'closed', resolutionNote }
* ratings: { jobId, reviewerId, revieweeId, rating, comment, createdAt }
* invoices: { userId, invoiceNumber, date, amount, paymentMethod, vatApplied: false }
* auditLogs (added): { actorId, role, action, targetType, targetId, meta, ip, device, createdAt }
* feedback: { userId, category: 'feature'|'bug'|'other', description, status, submittedAt }
* notifications: { userId, type: 'jobMatch'|'payment'|'dispute'|'jobStatus', message, status, createdAt }

**Indexes:**

* jobs.status, jobs.pickupCountry, jobs.deliveryCountry, jobs.industry, users.email (unique), feedback.status, notifications.status, auditLogs.createdAt.

**Real-Time:**

* Socket.io for job updates/chats; Firebase for notifications (email/in-app).
* Prometheus metrics; Redis as fallback queue; admin alerts on outages.

**Legal Pages:**

* Store Terms/Privacy in MongoDB; Super Admin edits via Quill.js.
* Customer Support edits **FAQs**.

**Testing:**  
Validate sign-up (with document upload), **2FA flows**, payment (multi-currency), job posting (industry/country, bulk upload), chat, ratings, disputes, invoices, notification settings (including job status), **audit logging**, data exports, admin flows, performance monitoring, account recovery, 3-device limit, and dashboard filters.