# Detailed Requirements: Local Skill, Resource Sharing, and Job Matching Platform

## 1. User Management & Security

1. \*\*Registration & Authentication\*\*

* Email/password signup with validation
* Multi-factor authentication (SMS, email OTP)
* OAuth/social login (e.g., Google, Facebook)
* Location-based login risk detection
* Password recovery and account lockout policies

1. \*\*Authorization & Roles\*\*

* Roles: Admin, Moderator, Individual User, Business, Informal Worker
* Role-based access control (RBAC)

1. \*\*User Profiles\*\*

* Personal details (name, photo, bio, languages)
* Skill portfolio: offered/requested skills
* Resource portfolio
* Work history and portfolio attachments
* Verification badges

## 2. Skill Sharing Module

1. \*\*Offer & Request Skills\*\*

* Create offerings and requests with title, category, descriptions, media

1. \*\*Categorization & Discovery\*\*

* Hierarchical taxonomy: Traditional vs. Modern
* Tags, keywords, auto-suggest

1. \*\*Booking & Monetization\*\*

* Pricing models: hourly, per-session, packages
* Calendar availability
* Secure payment escrow

1. \*\*Reviews & Ratings\*\*

* Post-engagement ratings and written feedback
* Skill-specific metrics

## 3. Resource Sharing Module

1. \*\*Offer & Request Resources\*\*

* Listings for tools, books, spaces, vehicles
* Condition reports, deposits, rental periods

1. \*\*Marketplace Features\*\*

* Filters: location, price, dates
* Map view with geolocation tagging

1. \*\*Transaction Management\*\*

* Booking calendar, rental agreements, digital signatures
* Payment processing and deposits

1. \*\*Trust & Safety\*\*

* Resource-specific reviews
* Damage/loss insurance options

## 4. Job Matching & Networking

1. \*\*Job Listings & Applications\*\*

* Post openings (full-time, part-time, gigs)
* Applications with CV/portfolio attachments

1. \*\*Smart Matching Engine\*\*

* Match using skills, location, experience
* ML/NLP analysis of profiles and descriptions

1. \*\*Business Partnerships\*\*

* Verified company pages
* Bulk import via API

1. \*\*Career Pathways\*\*

* Suggested steps post-course
* External job board integrations

## 5. E-Learning & Content Personalization

1. \*\*Course Catalog\*\*

* Video/text courses with subtitles
* Metadata: difficulty, duration, prerequisites

1. \*\*Content Curation\*\*

* Recommendation engine
* Advanced filters: topic, language, instructor rating

1. \*\*Progress Tracking & Certificates\*\*

* Module completion, quizzes, assignments
* Digital certificates or badges

1. \*\*Community-Driven Content\*\*

* User-created tutorials/workshops
* Peer review and upvote system

## 6. Search, Matching & Geolocation

1. \*\*Global Search Interface\*\*

* Unified search across all modules
* Faceted filters and sorting

1. \*\*Proximity Matching\*\*

* Geolocation tagging
* Radius-based search and travel time estimates

1. \*\*Cross-Regional Connectivity\*\*

* Filter for “Across Ethiopia” vs. “Local”

## 7. Communication & Collaboration

1. \*\*Real-Time Chat\*\*

* One-to-one and group chats with read receipts
* File and image sharing

1. \*\*Notifications & Alerts\*\*

* Email, in-app, push notifications

1. \*\*Discussion Forums\*\*

* Topic-based community threads

## 8. Trust, Safety & Community Moderation

1. \*\*Reputation System\*\*

* Aggregate ratings and badges

1. \*\*Content Moderation\*\*

* Report/flag listings or messages
* Admin manual review dashboard

1. \*\*Data Security\*\*

* AES-256 encryption at rest, TLS 1.3 in transit
* Input validation, SQL injection & XSS protections

1. \*\*Payment Security\*\*

* PCI-DSS compliant gateway integration

## 9. Localization & Accessibility

1. \*\*Languages & Culture\*\*

* UI in Amharic and English (i18n)
* RTL support for future languages

1. \*\*Digital Literacy\*\*

* Onboarding wizards, tooltips
* Low-bandwidth mode

1. \*\*Payment Gateways\*\*

* Integrate CBE Birr, telebirr

## 10. Community & Partnerships

1. \*\*NGO/Government Collaborations\*\*

* Co-branded campaigns, verified badges
* Bulk enrollment for programs

1. \*\*Local Business Integrations\*\*

* Advertising portal for SMEs
* API for external HR/ERP systems

## 11. Monetization & Sustainability

1. \*\*Revenue Streams\*\*

* Transaction fees, premium subscriptions, ads

1. \*\*Financial Reporting\*\*

* Earnings dashboard, fee breakdown

## 12. Technical & Architectural

1. \*\*Modular, API-First Design\*\*

* Microservices for each domain
* OpenAPI documentation

1. \*\*Database Schema\*\*

* Entities: User, Profile, Skill, Resource, Course, Job, Transaction, Review
* Normalized MySQL/PostgreSQL

1. \*\*Scalability & Performance\*\*

* Load balancing (NGINX), Kubernetes
* Redis caching

1. \*\*Testing & CI/CD\*\*

* Unit, integration, end-to-end tests
* Automated deployments with rollback

## 13. Admin & Maintenance

1. \*\*Admin Dashboard\*\*

* Metrics: users, listings, revenue
* User/content management

1. \*\*Monitoring & Analytics\*\*

* Real-time logs, ELK stack
* Usage analytics

1. \*\*Support & Feedback\*\*

* Ticketing system
* In-app surveys and NPS