**Kenyan Legal Case Management System Requirements**

**Core System Requirements**

**1. User Management & Authentication**

* Multi-level user access (administrators, legal professionals, paralegals, clients)
* Role-based permissions with customizable access controls
* Two-factor authentication for enhanced security
* Single sign-on (SSO) integration options
* Password policies and recovery mechanisms

**2. Case Management**

* Case registration with unique identifiers aligned with Kenyan court protocols
* Case categorization by court level, case type, and practice area
* Document management system with version control
* Comprehensive case history and activity logs
* Client information management and association with cases
* Status tracking across all stages of legal proceedings

**3. Court Calendar & Scheduling**

* Interactive calendar with color-coded case events
* Automated scheduling of court appearances, deadlines, and meetings
* Court stage tracking (filing, mention, hearing, judgment, appeal)
* Notification system for upcoming events with customizable reminders
* Conflict detection for scheduling overlaps
* Integration with personal calendars (Google, Outlook, etc.)

**4. Document Generation & Management**

* AI-assisted legal document drafting based on case type and requirements
* Template library for common Kenyan legal documents
* Document assembly with auto-population of case details
* Document comparison and redlining capabilities
* Digital signature integration
* OCR functionality for scanning physical documents

**5. AI-Powered Legal Research & Analysis**

* Integration with new.kenyalaw.org for automated legal research
* Precedent analysis based on court hierarchy (binding vs. persuasive)
* AI-assisted case outcome prediction based on similar rulings
* Legal citation generation and validation
* Automated extraction of key legal principles from rulings
* Topic modeling for identifying relevant legal concepts in documents

**6. Ruling Database & Analysis**

* Structured database of Kenyan court rulings with metadata
* Hierarchical organization of precedents (Supreme Court → Court of Appeal → High Court → Magistrate Courts)
* AI-powered ruling summarization
* Judicial trend analysis tools
* Citation network visualization showing relationships between cases

**7. Client Portal**

* Secure access for clients to view their case information
* Progress tracking for clients with simplified status updates
* Document sharing with controlled access
* Secure messaging between clients and legal team
* Payment processing and invoice tracking

**8. Reporting & Analytics**

* Customizable dashboard with key performance indicators
* Case outcome analytics by judge, court, and case type
* Workload analysis for legal professionals
* Financial reporting and billing analysis
* Time tracking and productivity metrics

**9. System Integration**

* API for integration with other legal systems and services
* Court e-filing system integration where available
* Accounting/billing software integration
* Email and communication tools integration
* Document storage solutions integration (local or cloud-based)

**Contract Management Module**

**1. Contract Creation & Development**

* AI-assisted contract drafting based on Kenyan contract law
* Contract template library with industry-specific variations
* Clause suggestion based on Acts of Parliament from new.kenyalaw.org
* Automatic incorporation of latest regulatory requirements
* Risk identification in contract terms with suggestions for mitigation
* Multi-party contract creation with role-based editing permissions

**2. Contract Review & Analysis**

* AI-powered contract review against Kenyan legal standards
* Automatic flagging of non-compliant or high-risk clauses
* Comparison with standard contracts in the same industry
* Identification of missing essential clauses based on contract type
* Time-sensitive obligation extraction and tracking
* Regulatory compliance verification against current Kenyan law

**3. Contract Lifecycle Management**

* Contract status tracking (draft, review, negotiation, execution, active, expired)
* Key date notification system (renewal, termination, compliance deadlines)
* Amendment tracking with version control
* Performance obligation monitoring
* Contract repository with advanced search capabilities
* Customizable approval workflows for contract progression

**4. Contract Intelligence**

* Analytics on contract terms across client portfolio
* Risk scoring based on contract language and obligations
* Benchmarking against industry standards
* Trend analysis for negotiation leverage
* Financial impact assessment of contract terms
* Visualization of contract relationships and dependencies

**Legal Brief Development Module**

**1. Brief Creation & Drafting**

* AI-assisted brief drafting based on case type and court level
* Integration with Kenyan Acts of Parliament from new.kenyalaw.org
* Automatic citation of relevant statutes, regulations, and notices
* Brief templates tailored to different Kenyan courts and procedures
* Contextual legal argument suggestions based on binding precedents
* Persuasive precedent recommendations from same-level courts

**2. Brief Analysis & Enhancement**

* Legal argument strength assessment
* Counter-argument prediction and preemptive response suggestions
* Citation verification and validation
* Readability and clarity analysis
* Consistency checking across arguments
* Brief comparison with previously successful briefs in similar cases

**3. Case Law Integration**

* Automated retrieval of relevant case law from new.kenyalaw.org
* Hierarchical organization of precedents by court level and relevance
* Direct quotation extraction with proper citation formatting
* Distinguishing case analysis for adverse precedents
* Visual mapping of precedent relationships to current case
* Identification of emerging legal trends relevant to the brief

**4. Statutory & Regulatory Compliance**

* Real-time verification against current Acts of Parliament
* Automatic updates when relevant laws or regulations change
* Identification of statutory interpretation precedents
* Regulatory impact analysis on legal arguments
* Legislative history tracking relevant to case arguments
* Integration of relevant Kenyan notices and regulatory guidance

**5. Brief Collaboration & Review**

* Collaborative editing with role-based permissions
* Comment and suggestion tracking
* Quality control checklists based on Kenyan court requirements
* Peer review workflow management
* Version comparison with highlighting of substantive changes
* Brief finalization and court submission preparation

**Technical Requirements**

**1. Architecture**

* Cloud-based microservices architecture for scalability
* Containerized deployment using Docker/Kubernetes
* API-first design to enable future integrations
* Offline capabilities with synchronization for limited connectivity scenarios

**2. AI Implementation**

* Integration with OLLAMA for hosting open-source LLMs
* Fine-tuning capabilities for Kenyan legal domain
* Vector database for semantic search of legal documents
* Document parsing and information extraction pipeline
* NLP modules for Kenyan legal terminology (including multiple languages)
* AI agent framework for automated case preparation assistance

**3. Kenyan Law Database**

* Complete integration with new.kenyalaw.org API (if available)
* Scheduled scraping and indexing of new.kenyalaw.org (if API unavailable)
* Structured database of Acts of Parliament, regulations, and notices
* Version tracking of legal amendments and repeals
* Categorization by legal domain and applicability
* Cross-referencing system between related legal provisions

**4. Data Storage & Management**

* Secure, encrypted database for all case information
* Robust backup and disaster recovery mechanisms
* Data retention policies compliant with Kenyan legal requirements
* Scalable document storage solution with versioning

**5. Security & Compliance**

* End-to-end encryption for sensitive data
* Compliance with Kenyan data protection regulations
* Regular security audits and penetration testing
* Detailed audit logs for all system activities
* Data residency options to meet local requirements

**6. Performance & Scalability**

* Load balancing for handling peak usage
* Caching mechanisms for frequently accessed data
* Asynchronous processing for resource-intensive operations
* Horizontal scaling capabilities for growing user base
* Performance monitoring and optimization

**7. User Interface**

* Responsive web application accessible on all devices
* Native mobile applications for iOS and Android
* Intuitive, workflow-based UI design
* Accessibility compliance
* Customizable interface layouts for different user roles

**AI-Specific Requirements**

**1. Legal Document Analysis**

* Automatic identification of document type
* Information extraction from legal documents (parties, dates, claims, rulings)
* Inconsistency detection between related documents
* Citation verification against Kenyan legal sources

**2. Case Preparation Assistant**

* AI-powered drafting of legal arguments based on relevant precedents
* Automated research for binding precedents from higher courts
* Identification of persuasive precedents from same-level courts
* Counter-argument prediction based on opposing counsel's history
* Weaknesses/strengths analysis for case strategy development

**3. Ruling Review System**

* Automated extraction of ratio decidendi from rulings
* Comparison of ruling with similar cases
* Appeal potential analysis based on legal principles
* Automatic categorization of legal principles established
* Judicial reasoning pattern analysis

**4. Legislative Monitoring**

* Tracking of amendments to relevant Acts of Parliament
* Impact assessment of legislative changes on active cases
* Notification system for regulatory updates affecting client matters
* Historical version comparison of statutes relevant to cases
* Analysis of legislative intent from parliamentary debates

**5. Training & Adaptation**

* Continuous learning from user interactions and feedback
* Domain adaptation for Kenyan legal terminology and procedures
* Regular updates from new.kenyalaw.org to incorporate latest rulings
* Performance monitoring of AI recommendations with feedback loop

**Hosting & Infrastructure Requirements**

**1. Local Deployment Option**

* On-premises deployment package for firms with strict data residency requirements
* Local OLLAMA setup with pre-configured models
* Regular model updates through secure channels
* Local vector database deployment

**2. Cloud Deployment Option**

* Scalable cloud infrastructure (AWS, Azure, or local Kenyan providers)
* Distributed AI processing for handling peak loads
* Content delivery network for improved performance across Kenya
* Regional deployment options to minimize latency

**Implementation Phases**

**Phase 1: Core Case Management**

* User management system
* Basic case registration and tracking
* Document management and storage
* Calendar and scheduling features

**Phase 2: AI Integration**

* OLLAMA integration with initial models
* Document parsing and analysis capabilities
* Basic legal research assistance
* Initial precedent analysis features

**Phase 3: Contract & Brief Development**

* Contract management module implementation
* Brief creation and analysis tools
* Integration with new.kenyalaw.org for statutes and regulations
* Advanced document generation capabilities

**Phase 4: Advanced Features**

* Client portal development
* Advanced AI-powered case preparation
* Ruling database and analysis tools
* Reporting and analytics dashboard

**Phase 5: Optimization & Scaling**

* Performance optimization
* Mobile application development
* Advanced integration capabilities
* Enhanced AI training with accumulated data