

VaultMind by AFNEXIS - Complete Knowledge Base Documentation

Table of Contents

1. [Product Overview](#)
 2. [Key Features](#)
 3. [Technical Specifications](#)
 4. [Pricing Plans](#)
 5. [Installation Guide](#)
 6. [User Guide](#)
 7. [Admin Panel Guide](#)
 8. [Security & Compliance](#)
 9. [API Documentation](#)
 10. [Troubleshooting](#)
 11. [FAQ](#)
-

Product Overview

VaultMind is the world's first 100% offline AI knowledge base system developed by AFNEXIS. It transforms your sensitive documents into an intelligent, searchable knowledge base that operates entirely on your infrastructure without any cloud dependency.

What is VaultMind?

VaultMind is an enterprise-grade document intelligence platform that uses advanced AI to analyze your documents and provide instant, accurate answers to your questions. Unlike cloud-based AI solutions, VaultMind ensures complete data sovereignty by processing everything locally on your systems.

Why VaultMind?

- **Complete Privacy:** Your data never leaves your infrastructure
- **Zero Latency:** Instant responses without network delays
- **Regulatory Compliance:** Built for HIPAA, GDPR, SOX compliance
- **Cost Predictable:** Pay per document pages, not API calls
- **Always Available:** Works offline, no internet dependency

Target Industries

VaultMind is specifically designed for organizations that handle sensitive information:

- **Healthcare:** Patient records, medical research, clinical documentation
 - **Legal:** Case files, contracts, legal precedents, client communications
 - **Financial Services:** Regulatory documents, customer data, financial reports
 - **Government:** Classified information, policy documents, citizen records
 - **Manufacturing:** Proprietary designs, patents, trade secrets, technical manuals
 - **Research & Development:** Research data, intellectual property, experimental results
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Key Features

Core AI Capabilities

Advanced Document Processing

- **Multi-format Support:** PDF, DOCX, XLSX, TXT, and more
- **OCR Integration:** Extract text from scanned documents and images
- **Semantic Chunking:** Intelligent document segmentation for optimal AI processing
- **Metadata Extraction:** Automatic extraction of document properties and structure

Intelligent Question Answering

- **Context-Aware Responses:** AI understands document context and relationships
- **Source Citation:** Every answer includes specific document references
- **Confidence Scoring:** AI provides confidence levels for each response
- **Multi-document Synthesis:** Combines information from multiple sources

Real-time Processing

- **Instant Upload:** Documents processed immediately upon upload
- **Live Indexing:** New documents instantly available for queries
- **Background Processing:** Large document batches processed without blocking users
- **Incremental Updates:** Efficient processing of document changes

Security Features

Data Protection

- **End-to-End Encryption:** All data encrypted at rest and in transit
- **Air-Gapped Operation:** Complete isolation from external networks
- **Local Processing:** No data transmission to external servers
- **Secure Authentication:** JWT-based authentication with role-based access

Compliance Ready

- **GDPR Compliance:** Built-in data protection and privacy controls

- **HIPAA Ready:** Healthcare data security standards implementation
- **SOX Compliance:** Financial data protection and audit trails
- **ISO 27001:** Information security management standards

Access Controls

- **Role-Based Permissions:** Admin, User, and custom role definitions
- **Department-Level Access:** Restrict access by organizational units
- **Document-Level Security:** Fine-grained permissions per document
- **Session Management:** Automatic timeout and secure session handling

User Experience

Web Interface

- **Modern Design:** Intuitive, responsive web interface
- **Real-time Chat:** WebSocket-powered instant messaging
- **Document Management:** Easy upload, organization, and deletion
- **Search & Filter:** Advanced search with multiple filter options

Administrative Tools

- **User Management:** Create, modify, and deactivate user accounts
- **Analytics Dashboard:** Usage statistics and performance metrics
- **System Monitoring:** Real-time system health and resource usage
- **Backup & Recovery:** Automated backup and restore capabilities

Technical Specifications

System Requirements

Minimum Requirements

- **Operating System:** Windows 10/11, macOS 10.15+, or Linux (Ubuntu 20.04+)
- **Processor:** Intel i5 or AMD Ryzen 5 (4 cores minimum)
- **Memory:** 16 GB RAM
- **Storage:** 50 GB available space (SSD recommended)
- **Network:** Ethernet connection for initial setup only

Recommended Requirements

- **Operating System:** Windows Server 2019+, macOS 12+, or Linux Server
- **Processor:** Intel i7 or AMD Ryzen 7 (8 cores or more)
- **Memory:** 32 GB RAM or more

- **Storage:** 200 GB+ SSD storage
- **GPU:** NVIDIA GPU with 8GB+ VRAM (optional, improves performance)

Enterprise Requirements

- **Dedicated Server:** Linux server with Docker support
- **Processor:** Intel Xeon or AMD EPYC (16+ cores)
- **Memory:** 64 GB RAM or more
- **Storage:** 1 TB+ NVMe SSD with RAID configuration
- **Network:** Gigabit Ethernet for internal network access

Technology Stack

Backend Technologies

- **Framework:** FastAPI (Python 3.11+)
- **Database:** PostgreSQL with connection pooling
- **Vector Database:** FAISS for semantic search
- **AI Models:** Transformer-based language models (locally hosted)
- **Processing:** Asynchronous document processing with queue management

Frontend Technologies

- **Web Interface:** Modern HTML5, CSS3, JavaScript
- **Real-time Communication:** WebSocket for instant messaging
- **Responsive Design:** Mobile-friendly interface
- **Authentication:** JWT token-based security

AI & Machine Learning

- **Language Models:** State-of-the-art transformer models
- **Embeddings:** BAAI/bge-base-en-v1.5 for document vectorization
- **Document Processing:** LangChain for text splitting and processing
- **OCR Engine:** Tesseract for image text extraction

Architecture

Deployment Architecture

```
User Interface (Web Browser)
    ↓
Web Server (FastAPI)
    ↓
Document Processor (Background)
    ↓
Vector Database (FAISS) + PostgreSQL
    ↓
AI Models (Local)
```

Security Architecture

- **Application Layer:** Role-based access control, input validation
 - **Data Layer:** Encrypted database storage, secure file handling
 - **Network Layer:** Local-only communication, no external connections
 - **System Layer:** OS-level security, process isolation
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Pricing Plans

Pricing Model Overview

VaultMind uses a flexible, usage-based pricing model that scales with your document processing needs. All plans include unlimited questions and users within the specified limits.

Page-Based Pricing

- **Minimum:** 5 document pages
- **Volume Discounts:** Automatic discounts for higher page counts
- **Transparent Costs:** No hidden fees or surprise charges
- **Flexible Scaling:** Increase or decrease pages anytime

Pricing Tiers

- **5-100 pages:** \$0.10 per page
- **101-1,000 pages:** \$0.08 per page
- **1,001-5,000 pages:** \$0.06 per page
- **5,001-10,000 pages:** \$0.04 per page
- **10,000+ pages:** \$0.03 per page (Enterprise discount)

Plan Details

Basic Plan - Individual Use

Target: Freelancers, small professionals, individual researchers

Pricing: Starting from \$0.50/month (5 pages minimum)

- **Users:** 1 user access
- **Pages:** Pay per page processed
- **AI Models:** Basic language models
- **Support:** Email support only
- **Admin Panel:** Not included
- **Features:**
 - Document upload and processing

- AI-powered question answering
- Basic search functionality
- Offline operation guarantee
- Standard encryption

Use Cases:

- Individual lawyers analyzing case files
- Researchers processing academic papers
- Consultants reviewing client documents
- Small business owners organizing contracts

Team Plan - Small Companies (Most Popular)

Target: Small teams, startups, professional services firms

Pricing: \$10/month base + page processing costs

- **Users:** Up to 5 users
- **Pages:** Pay per page processed
- **AI Models:** Advanced language models
- **Support:** Priority email and chat support
- **Admin Panel:** Full admin dashboard included
- **Features:**
 - All Basic features
 - User management and role assignment
 - Team collaboration tools
 - Advanced analytics dashboard
 - Document sharing controls
 - Audit logs and activity tracking

Use Cases:

- Small law firms with multiple attorneys
- Medical practices analyzing patient records
- Consulting teams collaborating on projects
- Research groups sharing academic documents

Business Plan - Growing Organizations

Target: Mid-size companies, departments, regional offices

Pricing: \$39/month base + page processing costs

- **Users:** Up to 25 users
- **Pages:** Pay per page processed

- **AI Models:** Advanced language models with custom tuning
- **Support:** Priority support with phone access
- **Admin Panel:** Advanced admin panel with department management
- **Features:**
 - All Team features
 - Department-level access controls
 - Advanced user permission management
 - API access for integrations
 - Custom document templates
 - Advanced reporting and analytics
 - SSO integration (LDAP/Active Directory)

Use Cases:

- Mid-size law firms with multiple practice areas
- Hospital departments managing medical records
- Financial services firms processing regulatory documents
- Manufacturing companies organizing technical documentation

Enterprise Plan - Large Organizations

Target: Large corporations, government agencies, healthcare systems

Pricing: \$99/month base + discounted page processing (25% off page costs)

- **Users:** Unlimited users
- **Pages:** Volume discounts on page processing
- **AI Models:** Custom AI model training and optimization
- **Support:** 24/7 dedicated support with account manager
- **Admin Panel:** Enterprise admin suite with multi-site management
- **Features:**
 - All Business features
 - Unlimited user accounts
 - Multi-department/multi-site deployment
 - Custom AI model training
 - White-label options
 - Custom integrations and APIs
 - Dedicated customer success manager
 - Professional services and consulting
 - On-site training and support

Use Cases:

- Large law firms with international offices
- Hospital systems with multiple facilities
- Government agencies with classified documents

- Fortune 500 companies with global operations

Additional Services

Professional Services

- **Implementation Consulting:** \$150-250/hour
- **Custom AI Training:** \$5,000-15,000 per model
- **Data Migration Services:** \$2,000-10,000 per project
- **On-site Training:** \$2,500/day plus expenses
- **System Integration:** Custom pricing based on requirements

Support Packages

- **Standard Support:** Included with all plans
 - **Priority Support:** Business and Enterprise plans
 - **Dedicated Support:** Enterprise plans only
 - **Emergency Support:** Available 24/7 for critical issues
-

Installation Guide

Pre-Installation Checklist

System Preparation

1. **Verify System Requirements:** Ensure your system meets minimum specifications
2. **Check Available Storage:** Confirm adequate disk space for installation and data
3. **Network Configuration:** Ensure internal network access for multi-user deployments
4. **Security Settings:** Configure firewall and antivirus exclusions
5. **Backup Current System:** Create system restore point before installation

Required Software

- **PostgreSQL 15+:** Database server for metadata storage
- **Python 3.11+:** Runtime environment for VaultMind
- **Docker (Optional):** For containerized deployment
- **Web Browser:** Chrome, Firefox, Safari, or Edge (latest versions)

Installation Methods

Method 1: Windows Installation

1. **Download VaultMind Installer:** Download from AFNEXIS customer portal

2. **Run Installer:** Execute VaultMind-Setup.exe as Administrator
3. **Follow Setup Wizard:**
 - Accept license agreement
 - Choose installation directory
 - Configure database settings
 - Set administrator account
4. **Complete Installation:** Installer will configure all components
5. **Launch VaultMind:** Access via desktop shortcut or Start menu

Method 2: macOS Installation

1. **Download VaultMind Package:** Download VaultMind.dmg from customer portal
2. **Mount Disk Image:** Double-click to mount the installer
3. **Run Installer:** Double-click VaultMind Installer.pkg
4. **Installation Process:**
 - Enter administrator password when prompted
 - Follow installation wizard
 - Configure initial settings
5. **Launch Application:** Find VaultMind in Applications folder

Method 3: Linux Installation

1. **System Update:** Update package manager
2. `sudo apt update && sudo apt upgrade -y`
3. **Install Dependencies:**
4. `sudo apt install python3.11 python3-pip postgresql-15 nginx`
5. **Download VaultMind:**
6. `wget https://releases.afnexus.com/vaultmind/vaultmind-linux.tar.gztar -xzf vaultmind-linux.tar.gzcd vaultmind`
7. **Run Installation Script:**
8. `sudo ./install.sh`
9. **Configure Service:**
10. `sudo systemctl enable vaultmindsudo systemctl start vaultmind`

Method 4: Docker Deployment

1. **Install Docker:** Ensure Docker and Docker Compose are installed
2. **Download Docker Compose:**
3. `version: '3.8'services: vaultmind: image: afnexus/vaultmind:latest ports: - "7201:7201" environment: - DB_HOST=postgres - DB_NAME=vaultmind volumes: - ./data:/app/data postgres: image: postgres:15 environment: - POSTGRES_DB=vaultmind - POSTGRES_USER=vaultmind - POSTGRES_PASSWORD=secure_password volumes: - postgres_data:/var/lib/postgresql/datavolumes: postgres_data:`
4. **Launch Services:**
5. `docker-compose up -d`

Post-Installation Configuration

Initial Setup

1. **Access Web Interface:** Open browser to `http://localhost:7201`
2. **Create Administrator Account:**
 - Username: admin
 - Email: your-email@company.com
 - Password: Strong password (12+ characters)
 - Full Name: Administrator name
3. **System Configuration:**
 - Set organization name
 - Configure email settings (optional)
 - Set up backup preferences
 - Review security settings

License Activation

1. **Enter License Information:** Input license key provided by AFNEXIS
2. **Verify Activation:** Confirm license status in admin panel
3. **Plan Configuration:** Set up user limits and page allocations
4. **Billing Setup:** Configure billing information for ongoing service

Performance Optimization

1. **Memory Allocation:** Adjust memory settings based on available RAM
2. **Storage Configuration:** Set up appropriate storage paths
3. **Network Settings:** Configure internal network access
4. **Monitoring Setup:** Enable system monitoring and alerts

User Guide

Getting Started

First Login

1. **Access VaultMind:** Open web browser and navigate to your VaultMind URL
2. **Login:** Enter your username and password provided by administrator
3. **Dashboard Overview:** Familiarize yourself with the main interface
4. **Profile Setup:** Complete your user profile information

Interface Overview

- **Top Navigation:** Access to main features and user menu
- **Sidebar:** Document management and chat history
- **Main Area:** Document viewing and chat interface

- **Status Bar:** Connection status and system information

Document Management

Uploading Documents

1. **Access Upload:** Click "Upload Documents" button
2. **Select Files:** Choose files from your computer
 - Supported formats: PDF, DOCX, XLSX, TXT
 - Maximum file size: 10MB per file
 - Multiple files supported
3. **Upload Process:**
 - Files are uploaded and processed automatically
 - Processing status shown in real-time
 - Documents become searchable immediately after processing
4. **Verification:** Confirm documents appear in your knowledge base

Organizing Documents

- **Categories:** Create categories to organize documents
- **Tags:** Add tags for easy filtering and search
- **Folders:** Group related documents in folders
- **Metadata:** Add descriptions and notes to documents

Document Status

- **Processing:** Document is being analyzed by AI
- **Ready:** Document is processed and available for queries
- **Error:** Processing failed - check document format
- **Updating:** Document is being reprocessed after changes

Using the AI Assistant

Starting a Conversation

1. **New Chat:** Click "New Chat" to start fresh conversation
2. **Type Question:** Enter your question in the chat input
3. **Send:** Press Enter or click Send button
4. **View Response:** AI provides answer with source citations

Effective Questioning Techniques

- **Be Specific:** Ask specific questions rather than general ones
- **Provide Context:** Include relevant context in your questions
- **Reference Documents:** Mention specific documents when relevant
- **Follow-up Questions:** Build on previous responses for deeper insights

Understanding Responses

- **Source Citations:** Each answer includes document references
- **Confidence Scores:** AI indicates confidence level in responses
- **Related Information:** Additional relevant information provided
- **Clarifying Questions:** AI may ask for clarification if needed

Advanced Features

Search and Filtering

- **Global Search:** Search across all documents
- **Document Filters:** Filter by type, date, category
- **Advanced Queries:** Use operators for complex searches
- **Saved Searches:** Save frequently used search queries

Chat History Management

- **Session History:** All conversations automatically saved
- **Export Chats:** Download conversation history
- **Search Conversations:** Find specific discussions
- **Delete Sessions:** Remove unwanted chat sessions

Collaboration Features

- **Shared Workspaces:** Collaborate with team members
- **Document Sharing:** Share specific documents with colleagues
- **Comment System:** Add comments and notes to documents
- **Activity Notifications:** Stay updated on team activities

Admin Panel Guide

Administrative Dashboard

Dashboard Overview

The VaultMind admin panel provides comprehensive management tools for system administrators to manage users, documents, and system settings.

Key Sections:

- **User Management:** Create, modify, and manage user accounts
- **Document Management:** Monitor document processing and storage

- **System Analytics:** View usage statistics and performance metrics
- **Settings:** Configure system parameters and preferences
- **Support:** Access support tools and system diagnostics

System Status Monitoring

- **Real-time Metrics:** CPU, memory, and storage usage
- **Processing Queue:** Monitor document processing status
- **User Activity:** Track user sessions and activity
- **Error Logs:** Review system errors and warnings
- **Performance Alerts:** Automated alerts for system issues

User Management

Creating User Accounts

1. **Access User Management:** Navigate to Admin → Users
2. **Add New User:** Click "Add User" button
3. **User Information:**
 - Username: Unique identifier for login
 - Email: User's email address
 - Full Name: Complete name for display
 - Role: Admin or User permissions
 - Department: Organizational unit (optional)
4. **Initial Password:** System generates secure password
5. **Welcome Email:** Automated email sent to new user

User Roles and Permissions

- **Administrator:** Full system access and management capabilities
- **Power User:** Advanced features with limited admin functions
- **Standard User:** Basic document access and AI interaction
- **Read-Only User:** View documents and responses only
- **Guest User:** Temporary access with limited functionality

Managing User Access

- **Account Status:** Enable, disable, or suspend accounts
- **Password Reset:** Force password reset for security
- **Session Management:** View and terminate active sessions
- **Access Logs:** Review user login and activity history
- **Department Assignment:** Organize users by department

Document Administration

Document Processing Management

- **Upload Queue:** Monitor document processing status
- **Processing Errors:** Identify and resolve processing issues
- **Batch Operations:** Process multiple documents simultaneously
- **Storage Management:** Monitor disk usage and cleanup
- **Backup Status:** Ensure document backups are current

Document Security

- **Access Controls:** Set document-level permissions
- **Encryption Status:** Verify document encryption
- **Audit Trails:** Track document access and modifications
- **Retention Policies:** Automated document lifecycle management
- **Compliance Reporting:** Generate compliance reports

System Maintenance

- **Database Optimization:** Regular database maintenance tasks
- **Index Rebuilding:** Optimize search performance
- **Cache Management:** Clear and optimize system caches
- **Log Rotation:** Manage system log files
- **Update Management:** Apply system updates and patches

Analytics and Reporting

Usage Analytics

- **User Activity:** Track user engagement and usage patterns
- **Document Usage:** Most accessed documents and content
- **Query Analytics:** Popular questions and search terms
- **Performance Metrics:** Response times and system performance
- **Capacity Planning:** Predict future resource needs

Compliance Reporting

- **Access Reports:** User access and activity logs
- **Security Reports:** Security events and compliance status
- **Audit Trails:** Complete audit trail for compliance
- **Data Retention:** Document retention and disposal records
- **Privacy Reports:** Data privacy and protection compliance

Custom Reports

- **Report Builder:** Create custom reports and dashboards
- **Scheduled Reports:** Automated report generation and distribution
- **Export Options:** Export data in various formats
- **Dashboard Widgets:** Customizable dashboard components

- **Alert Configuration:** Set up automated alerts and notifications
-

Security & Compliance

Security Architecture

Multi-Layer Security Model

VaultMind implements a comprehensive security framework designed to protect sensitive information at every level:

1. **Application Security:** Secure coding practices, input validation, output encoding
2. **Data Security:** Encryption at rest and in transit, secure key management
3. **Network Security:** Network isolation, secure communications
4. **System Security:** OS hardening, access controls, monitoring
5. **Physical Security:** Recommendations for secure deployment environments

Encryption Standards

- **Data at Rest:** AES-256 encryption for all stored data
- **Data in Transit:** TLS 1.3 for all network communications
- **Key Management:** Secure key generation, storage, and rotation
- **Database Encryption:** Transparent database encryption (TDE)
- **File System Encryption:** Full disk encryption for document storage

Authentication and Authorization

- **Multi-Factor Authentication:** Support for 2FA/MFA
- **Single Sign-On:** Integration with LDAP, Active Directory
- **Role-Based Access Control:** Granular permissions management
- **Session Security:** Secure session handling and timeout
- **Password Policies:** Configurable password complexity requirements

Compliance Standards

GDPR (General Data Protection Regulation)

VaultMind is designed to help organizations comply with EU GDPR requirements:

Data Protection by Design:

- Data minimization principles
- Privacy-first architecture

- Consent management
- Right to erasure implementation
- Data portability features

Technical Safeguards:

- Pseudonymization capabilities
- Data encryption standards
- Access logging and monitoring
- Breach detection and notification
- Privacy impact assessment tools

HIPAA (Health Insurance Portability and Accountability Act)

For healthcare organizations, VaultMind provides HIPAA-compliant features:

Administrative Safeguards:

- User access management
- Workforce training requirements
- Incident response procedures
- Risk assessment tools
- Business associate agreements

Physical Safeguards:

- Secure facility recommendations
- Workstation security guidance
- Media controls and disposal
- Access control procedures

Technical Safeguards:

- User authentication requirements
- Automatic logoff capabilities
- Encryption standards
- Audit logging requirements
- Data integrity controls

SOX (Sarbanes-Oxley Act)

For financial organizations, VaultMind supports SOX compliance:

Internal Controls:

- Document retention policies

- Change management procedures
- Access control documentation
- Audit trail requirements
- Financial reporting controls

IT General Controls:

- System access controls
- Change management procedures
- Backup and recovery processes
- Security monitoring and incident response

ISO 27001 Information Security Management

VaultMind aligns with ISO 27001 standards:

Information Security Policies:

- Security policy framework
- Risk management procedures
- Incident response plans
- Business continuity planning
- Supplier relationship security

Implementation Controls:

- Access control management
- Cryptography controls
- System security procedures
- Network security management
- Application security controls

Security Best Practices

Deployment Security

1. **Network Isolation:** Deploy in isolated network segments
2. **Firewall Configuration:** Restrict network access to essential ports only
3. **System Hardening:** Follow OS hardening guidelines
4. **Regular Updates:** Maintain current security patches
5. **Monitoring:** Implement comprehensive security monitoring

Operational Security

1. **User Training:** Regular security awareness training
2. **Access Reviews:** Periodic access rights reviews

3. **Password Management:** Strong password policies and management
4. **Incident Response:** Defined incident response procedures
5. **Regular Audits:** Security audits and assessments

Data Protection

1. **Classification:** Implement data classification schemes
 2. **Handling Procedures:** Define secure data handling procedures
 3. **Retention Policies:** Establish data retention and disposal policies
 4. **Backup Security:** Secure backup and recovery procedures
 5. **Privacy Controls:** Implement privacy protection measures
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API Documentation

API Overview

VaultMind provides a comprehensive RESTful API for integration with existing systems and workflows. The API is available for Business and Enterprise plans.

Base URL

`https://your-vaultmind-instance.com/api/v1`

Authentication

All API requests require authentication using JWT tokens:

`Authorization: Bearer <your-jwt-token>`

Response Format

All API responses are in JSON format:

```
{
  "status": "success|error",
  "data": {},
  "message": "Response message",
  "timestamp": "2024-01-01T12:00:00Z"
}
```

Authentication Endpoints

POST /auth/login

Authenticate user and obtain JWT token.

Request Body:

```
{
  "username": "user@company.com",
  "password": "secure_password"
}
```

Response:

```
{
  "status": "success",
  "data": {
    "access_token": "eyJ0eXAiOiJKV1QiLCJhbGc...",
    "token_type": "bearer",
    "expires_in": 3600,
    "user": {
      "id": 123,
      "username": "user@company.com",
      "role": "user"
    }
  }
}
```

POST /auth/refresh

Refresh authentication token.

Request Headers:

Authorization: Bearer <current-token>

Response:

```
{
  "status": "success",
  "data": {
    "access_token": "eyJ0eXAiOiJKV1QiLCJhbGc...",
    "expires_in": 3600
  }
}
```

Document Management Endpoints**POST /documents/upload**

Upload document for processing.

Request:

Content-Type: multipart/form-data

file: <binary-file-data>
category: "contracts" (optional)
tags: "legal,confidential" (optional)

Response:

```
{
  "status": "success",
  "data": {
    "document_id": "doc_abc123",
    "filename": "contract.pdf",
    "status": "processing",
    "message": "Document uploaded successfully"
  }
}
```

GET /documents

List user's documents.

Query Parameters:

- page: Page number (default: 1)
- limit: Results per page (default: 20)
- category: Filter by category
- status: Filter by processing status

Response:

```
{
  "status": "success",
  "data": {
    "documents": [
      {
        "document_id": "doc_abc123",
        "filename": "contract.pdf",
        "status": "ready",
        "created_at": "2024-01-01T12:00:00Z",
        "pages": 25,
        "category": "contracts"
      }
    ],
    "total": 1,
    "page": 1,
    "pages": 1
  }
}
```

GET /documents/{document_id}/status

Get document processing status.

Response:

```
{
  "status": "success",
  "data": {
    "document_id": "doc_abc123",
    "status": "ready|processing|error",
    "progress": 100,
    "error_message": null,
    "chunks_created": 45,
    "processing_time": 12.5
  }
}
```

DELETE /documents/{document_id}

Delete document and associated data.

Response:

```
{
  "status": "success",
  "message": "Document deleted successfully"
}
```

Chat and Query Endpoints**POST /chat/sessions**

Create new chat session.

Request Body:

```
{
  "name": "Session Name",
  "document_ids": ["doc_abc123"] // optional
}
```

Response:

```
{
  "status": "success",
  "data": {
    "session_id": "session_xyz789",
    "name": "Session Name",
    "created_at": "2024-01-01T12:00:00Z"
  }
}
```

POST /chat/query

Send query to AI assistant.

Request Body:

```
{
  "session_id": "session_xyz789",
  "question": "What are the key terms in the contract?",
  "document_ids": ["doc_abc123"] // optional
}
```

Response:

```
{
  "status": "success",
  "data": {
    "answer": "The key terms in the contract include...",
    "sources": [
      {
        "document_id": "doc_abc123",
        "filename": "contract.pdf",
        "page": 3,
        "confidence": 0.95
      }
    ],
    "processing_time": 1.2,
    "session_id": "session_xyz789"
  }
}
```

GET /chat/sessions

List user's chat sessions.

Response:

```
{
  "status": "success",
  "data": {
    "sessions": [
      {
        "session_id": "session_xyz789",
        "name": "Contract Analysis",
        "created_at": "2024-01-01T12:00:00Z",
        "message_count": 15,
        "last_activity": "2024-01-01T14:30:00Z"
      }
    ]
  }
}
```

GET /chat/sessions/{session_id}/messages

Get chat session messages.

Response:

```
{
  "status": "success",
  "data": {
    "messages": [
      {
        "id": 456,
        "question": "What are the key terms?",
        "answer": "The key terms include...",
        "created_at": "2024-01-01T12:00:00Z",
        "sources": [...]
      }
    ]
  }
}
```

Admin API Endpoints

GET /admin/users

List all users (admin only).

Query Parameters:

- page: Page number
- limit: Results per page
- role: Filter by user role
- status: Filter by account status

Response:

```
{
  "status": "success",
  "data": {
    "users": [
      {
        "id": 123,
        "username": "user@company.com",
        "full_name": "John Doe",
        "role": "user",
        "status": "active",
        "created_at": "2024-01-01T12:00:00Z",
        "last_login": "2024-01-01T14:00:00Z"
      }
    ],
    "total": 50,
    "page": 1,
    "pages": 3
  }
}
```

POST /admin/users

Create new user account (admin only).

Request Body:

```
{
  "username": "newuser@company.com",
  "full_name": "Jane Smith",
  "role": "user",
  "department": "Legal",
  "send_welcome_email": true
}
```

Response:

```
{
  "status": "success",
  "data": {
    "user_id": 124,
    "username": "newuser@company.com",
    "
  }
}
```