API Specification Document

Author: Dhawanit Bhatnagar

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1. Introduction

This document provides the API specifications for the Document Management System (DMS). It includes endpoints for authentication, user management, document operations, and ingestion management.

2. Authentication APIs

2.1 Register a New User

• Method: POST
• Endpoint: /auth/register
• Description: Registers a new user (admin, editor, or viewer).
• Request Body: { username, email, password, role }
• Response: 201 Created with user details.

2.2 User Login

• Method: POST
• Endpoint: /auth/login
• Description: Logs in a user and returns an access token.
• Request Body: { email, password }
• Response: 200 OK with JWT token.

3. User Management APIs

3.1 Get All Users

• Method: GET
• Endpoint: /users?page=&limit=
• Description: Retrieves paginated list of users (Admin only).
• Response: 200 OK with list of users.

3.2 Update User Role

• Method: PATCH
• Endpoint: /users/:id/role

- Description: Updates the role of a user (Admin only).
- Request Body: { role }
- Response: 200 OK.

3.3 Update Ingestion Permission

- Method: PATCH
- Endpoint: /users/:id/permission
- Description: Grants or revokes ingestion trigger permission for a user.
- Request Body: { canTriggerIngestion }
- Response: 200 OK.

4. Document Management APIs

4.1 Upload Document

- Method: POST
- Endpoint: /documents
- Description: Uploads a new document (PDF/DOCX/TXT).
- Request: Multipart form-data with fields {file, title, description}
- Response: 201 Created with document details.

4.2 List Documents

- Method: GET
- Endpoint: /documents
- Description: Retrieves a paginated list of documents.
- Response: 200 OK.

4.3 Update Document

- Method: PATCH
- Endpoint: /documents/:id
- Description: Updates document title, description, or file. Only Admin, Creator, or Editors can update. Ingested documents can only be updated by Admin.
- Request: Multipart form-data.
- Response: 200 OK.

4.4 Delete Document

- Method: DELETE
- Endpoint: /documents/:id
- Description: Deletes a document. Only Admin or Creator can delete.
- Response: 200 OK.

5. Ingestion Management APIs

5.1 Trigger Ingestion
- Method: POST
- Endpoint: /ingestion/trigger/:documentId
- Description: Triggers ingestion for a document (Admin or Editor with permission).
- Response: 200 OK with ingestionId.

5.2 Get Ingestion Status
- Method: GET
- Endpoint: /ingestion/status/:id
- Description: Retrieves status of an ingestion process.
- Response: 200 OK.

5.3 Get Ingestion History
- Method: GET
- Endpoint: /ingestion/history?status=&search=&page=&limit=
- Description: Retrieves paginated ingestion logs with optional filters.
- Response: 200 OK.

5.4 Retry Ingestion
- Method: PATCH
- Endpoint: /ingestion/retry/:id
- Description: Retries ingestion for a failed or cancelled document (Admin only).
- Response: 200 OK.

5.5 Cancel Ingestion
- Method: PATCH
- Endpoint: /ingestion/cancel/:id
- Description: Cancels an ongoing ingestion (Admin only).
- Response: 200 OK.