Technical Design Document

# 1. API Overview

This document describes the technical design for the Document Management module of the Policy Management System. The system allows uploading, searching, and filtering of policy-related documents.

# 2. API Endpoints

## 2.1 Upload Document

Method: POST

URL: /api/documents/upload

Description: Uploads a document with metadata (title, author, type).

Request Parameters:

- file (MultipartFile): Document file to upload.

- title (String): Title of the document.

- author (String): Author of the document.

- type (String): Type of the document (e.g., pdf, txt).

Response:

Returns ApiResponse with uploaded document details.

## 2.2 Filter Documents

Method: GET

URL: /api/documents/filter

Description: Filters documents based on author and type.

Request Parameters:

- author (String): Author name to filter by.

- type (String): Type of document.

- page (int): Page number for pagination.

- size (int): Number of records per page.

Response:

Returns ApiResponse with a list of matching PolicyDocumentResponseDto.

## 2.3 Search Documents

Method: GET

URL: /api/documents/search

Description: Searches documents by keyword in their content.

Request Parameters:

- query (String): Keyword to search for in the document content.

Response:

Returns ApiResponse with a list of QnaSearchResponseDto containing title and content snippet.

# 3. Exception Handling

All APIs use centralized exception handling. Custom exceptions are thrown using PolicyManagementException which wraps ResultCode enum values.