# **Knowledge Assistant (MVP)**

### Al-Powered Q&A; over Contracts, Policies, and Reports

This document provides a structured synopsis of the Knowledge Assistant MVP. It is a lightweight tool that allows users to upload documents and ask natural language questions, receiving answers with citations.

#### 1. Introduction

The Knowledge Assistant (MVP) enables quick extraction of insights from documents such as contracts, HR policies, and compliance reports. Users can upload files and ask questions, with answers provided along with citations.

## 2. Objectives

The project aims to provide a lean, functional MVP with:

Simple UI for non-technical users

Support for PDF, DOCX, and TXT

Fast, citation-backed answers

Answer export as PDF

Password-protected access

Workspaces for client separation

#### 3. Features

Key features of the Knowledge Assistant MVP include:

Document Upload: PDF, DOCX, TXT

Ingest & Index: Splits docs into searchable chunks

Natural Language Q&A;: Plain English queries

Citations: Trace answers back to source pages

Export: Download answers as PDF reports

Workspaces: One per client/project

Password Protection: Configurable via environment secret

## 4. Technical Stack

The app is built using proven open-source libraries:

Streamlit for UI

pdfplumber and python-docx for document ingestion

BeautifulSoup and lxml for text cleaning

scikit-learn for TF-IDF retrieval and similarity reportlab for PDF export Streamlit Cloud for deployment

## 5. System Workflow

The system processes documents in 6 steps:

Upload → PDF/DOCX/TXT

Clean and Chunk → Prepare text blocks

Vectorize → TF-IDF embeddings

Ask → User enters a natural language question

Retrieve → Top relevant text passages returned

Answer → Concise answer generated with citations and PDF export

#### 6. Use Cases

The tool benefits multiple industries:

Legal: Extract renewal dates, liability clauses

Finance: Search audits, compliance documents

Consulting: Accelerate client document reviews

General: Q&A; over policies, research, and reports

#### 7. Future Enhancements

Planned improvements include:

Semantic search using embeddings (OpenAI or HuggingFace)

Multi-user accounts and roles

Database-backed storage for persistence

Analytics dashboard for usage insights

Polished UI with highlights and themes

# 8. Conclusion

This MVP validates the workflow of a Knowledge Assistant product. It takes users from document upload to natural language Q&A; with citations. The system demonstrates strong potential for SaaS deployment across legal, finance, and consulting sectors.