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GENERATIVE AI ODYSSEY

Software Requirements Specification Version 1.0

DocuDraft Pro

Project Name: DocuDraft Pro

Theme: AI-driven Professional Document Drafting Assistant

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1.1 Background and Necessity for the Application

Businesses, legal professionals, and researchers spend significant time and resources drafting formal documents such as **business proposals**, **legal contracts**, and **research reports**. Traditional drafting processes involve repetitive manual work, consultation with multiple stakeholders, and time-consuming formatting - all of which can lead to delays, inconsistencies, and reduced productivity.

With the rapid advancement in **Generative AI** and **Natural Language Processing (NLP)** technologies, AI-powered document creation has become a practical, efficient, and reliable solution. **DocuDraft Pro** aims to leverage **Large Language Models (LLMs)** to produce professional-grade documents with customizable templates, legal compliance checks, and formatting options - reducing drafting time and improving accuracy.

1.2 Proposed Solution

The proposed solution is to develop **DocuDraft Pro**, an AI-powered document drafting assistant capable of:

- Accepting **user prompts**, outlines, or raw notes.
- Generating **professional, context-specific documents** such as contracts, proposals, and reports.
- Allowing **real-time customization** of tone, style, and structure.
- Integrating **domain-specific templates** for business, law, and academia.
- Offering **grammar, plagiarism, and compliance checks** to ensure document quality.

The AI will use pre-trained LLMs (such as OpenAI GPT models) with fine-tuned datasets for specific document types. Output can be exported in **DOCX, PDF, or HTML** formats.

1.3 Purpose of the Document

This document provides a **complete description** of the requirements for DocuDraft

Pro. It outlines the **purpose, scope, features, functional and non-functional**

requirements, and deliverables for developers and stakeholders.

1.4 Scope of Project

The application will be a **web-based and desktop-compatible AI document drafting tool** that:

- Assists **business executives**, **lawyers**, **researchers**, and **students**.
- Supports **multi-language drafting**.
- Allows **team collaboration** via shared editing and commenting.
- Ensures **security and confidentiality** of sensitive documents.

1.5 Constraints

- Compliance with **data privacy laws** (GDPR, local regulations).
- Limited AI accuracy for **highly technical or jurisdiction-specific laws** — requiring human verification.
- Internet connection required for AI processing.
- File upload limit of **20MB per document**.

1.6 Functional Requirements

1. **User Management**
   - Registration/Login with Email & OTP verification.
   - User profile with saved preferences (industry, document style, tone).
2. **Document Creation**
   - Select from pre-defined templates (Business Proposal, Legal Contract, Research Report).

o Input data via prompt, bullet points, or file upload.

o AI-generated draft in editable rich-text editor.

3. **Editing & Formatting Tools**

   o Text formatting (font, style, headings).

   o Add images, tables, and charts.

   o Real-time AI suggestions for improving clarity and grammar.

4. **Compliance & Quality Checks**

   o Plagiarism detection.

   o Grammar correction.

   o Legal compliance alerts based on jurisdiction selection.

5. **Export & Sharing**

   o Export to **DOCX, PDF, HTML**.

   o Share via secure link or email.

6. **AI Chat Assistance**

   o Ask follow-up questions for modifications.

   o Summarize long documents.

1.7 Non-Functional Requirements

- **Performance:** Document generation under 10 seconds for average-length drafts.

- **Scalability:** Able to handle **500+ simultaneous document requests**.

- **Security:** AES-256 encryption for stored files; HTTPS for all communications.

- **Usability:** Simple, intuitive UI for non-technical users.

- **Reliability:** 99.5% uptime.

1.8 Interface Requirements

Hardware:

- Intel Core i5/i7 or higher

- 8 GB RAM minimum

- 500 GB storage

Software:

- Backend: **Python Flask/Django**
- Frontend: **HTML5, CSS3, Bootstrap, ReactJS**
- Data Store: **MongoDB/JSON**
- AI: **OpenAI GPT API, Hugging Face Transformers**

1.9 Project Deliverables

- **Source code** with documentation.
- **User Manual** with installation and usage steps.
- **Demo Video** of the complete application.