

ADGM-Compliant Corporate Agent with Document Intelligence

1. Project Overview

The ADGM-Compliant Corporate Agent is an AI-powered legal assistant designed to help users review, validate, and prepare documentation for business incorporation and compliance within the Abu Dhabi Global Market (ADGM) jurisdiction. The system implements Retrieval-Augmented Generation (RAG) technology to ensure legal accuracy according to ADGM regulations.

2. Key Features

2.1 Document Processing

- Accepts multiple .docx document uploads
- Automatically identifies document types (Articles of Association, MoU, etc.)
- Verifies document completeness against ADGM checklists

2.2 Legal Analysis

- Detects red flags and inconsistencies
- Identifies missing or non-compliant clauses
- Flags incorrect jurisdiction references (e.g., UAE Federal vs ADGM Courts)

2.3 Output Generation

- Creates annotated .docx files with comments
- Generates structured JSON/Python reports
- Provides clear missing document notifications

3. Installation and Setup

System Requirements

Component	Requirement
Operating System	Windows 10+, macOS 10.15+, or Linux
Python	Version 3.9 or higher
Memory	Minimum 8GB RAM
Storage	500MB available space

Installation Steps

1. Clone the repository: `git clone https://github.com/your-repo/adgm-agent.git`

2. Install dependencies: `pip install -r requirements.txt`
3. Configure environment variables (create `.env` file with OpenAI key)
4. Run the application: `python app.py`

4. Usage Guide

4.1 Launching the Application

After installation, run the application with:

```
python main.py
```

4.2 Document Processing

1. Click "Upload Documents" and select your `.docx` files
2. The system will automatically analyze the documents
3. Review the processing status indicators

4.3 Reviewing Results

- The annotated documents will appear with comments
- Download buttons will be available for all processed files
- Check the detailed JSON report for all findings

5. Output Specifications

5.1 Document Annotations

The system adds comments to documents with:

- Issue severity indicators (High/Medium/Low)
- Exact ADGM regulation references
- Suggested corrections where applicable

5.2 JSON Report Structure

```
{  
  "process": "Company Incorporation",  
  "documents_uploaded": 4,  
  "required_documents": 5,  
  "missing_document": "Register of Members",  
  "issues_found": [  
    {  
      "document": "AoA",  
      "section": "Clause 3.1",
```

```
"issue": "Missing ADGM jurisdiction clause",  
"severity": "High",  
"suggestion": "Add: 'All disputes shall be..."  
}  
]  
}
```