

Setup and Execution Guide: ADGM Corporate Agent

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System Prerequisites

Python 3.10 or higher must be installed on your system.

Git must be installed to clone the repository.

Step 1: Clone the Project Repository

First, clone the project code from the GitHub repository to your local machine. Open your command line terminal (like Command Prompt, PowerShell, or Terminal on Mac/Linux) and run the following command:

```
codeBash
```

```
git clone
```

Once cloning is complete, navigate into the project directory:

```
codeBash
```

```
cd adgm-agent
```

Step 2: Create and Activate a Python Virtual Environment

It is strongly recommended to use a virtual environment to avoid conflicts with other Python projects.

1. Create the environment:

```
codeBash
```

```
python -m venv venv
```

2. Activate the environment:

On Windows:

```
codePowershell
```

```
.\venv\Scripts\Activate.ps1
```

On macOS or Linux:

```
codeBash
```

```
source venv/bin/activate
```

After activation, you should see (venv) at the beginning of your terminal prompt.

Step 3: Install Required Dependencies

All necessary Python libraries are listed in the requirements.txt file. Install them with a single command:

```
codeBash
```

```
pip install -r requirements.txt
```

This will download and install all required packages, including Streamlit and LangChain.

Step 4: Configure the API Key

The application requires a Google Gemini API key to function. The repository includes a template file named .env.template.

1. Create your API key file: Make a copy of the .env.template file and rename it to .env.

2. Add your API Key:

Obtain your Google Gemini API key from .

Open the newly created .env file with a text editor.

Paste your key into the file, replacing the placeholder text. The file content should look like this:

```
codeCode
```

```
GOOGLE_API_KEY=Your_Secret_Gemini_API_Key_Goes_Here
```

Save and close the file.

Step 5: Build the Local Knowledge Base

The project uses a local vector store as its knowledge base, which must be created from the documents provided in the /data folder.

Run the ingestion script from your terminal (ensure your virtual environment is still active):

```
codeBash
```

```
python ingest.py
```

You will see output indicating that documents are being loaded, split, and embedded. This process will create a vector_store/ directory. This step is mandatory and only needs to be done once.

Step 6: Run the Application

You are now ready to launch the web application.

Run the following command in your terminal:

```
codeBash
```

```
streamlit run app.py
```

The application will automatically open in your default web browser. If it doesn't, navigate to the Local URL shown in the terminal (e.g., <http://localhost:8501>).

You can now test the application by uploading the sample .docx files provided in the repository. Thank you for your evaluation. (A STABLE INTERNET CONNECTION IS REQUIRED FOR RUNNING)