508 COMPLIANCE AGENT PROJECT SETUP

This document describes how to set up and run a 508 Compliance Agent using CrewAI, Google Gemini, and Streamlit.

1. Folder Structure:

508_compliance_agent/

- app/

  - streamlit_app.py

- agents/

  - compliance_agent.py

- tools/

  - file_parser.py

- llm/

  - gemini_summary.py

- data/

- .env

- requirements.txt

2. Virtual Environment Setup:

```
$ cd 508_compliance_agent
$ python3 -m venv venv
$ source venv/bin/activate     (Linux/macOS)
$ venv\Scripts\activate        (Windows)
$ pip install -r requirements.txt
```

3. .env File:

Create a file named .env with the following content:

GEMINI_API_KEY=your-gemini-api-key-here

4. Streamlit App Usage:

```
$ streamlit run app/streamlit_app.py
```

5. What It Does:

- Upload a PDF via the Streamlit UI.

- The file is analyzed using a CrewAI agent with:

  - AccessibilityTool (checks for issues)

  - GeminiSummaryTool (summarizes findings)

- The app displays a full compliance report and summary.