Assignment: Document Summarizer via Google Drive Integration

Objective:

Build a simple application that connects to a Google Drive folder, accesses various documents (PDFs, DOCXs, TXTs, etc.), and uses an AI model to summarize the content of each document.

Requirements:

1. **Google Drive Integration:**

   o Authenticate with Google using OAuth2.

   o Access a specific folder in Google Drive (you can mock or hardcode folder ID for the test).

   o List and download documents (support at least .pdf, .docx, and .txt).

2. **Document Parsing:**

   o Extract text from each document.

      ▪ Use libraries like PyMuPDF, python-docx, or pdfplumber for this step.

3. **Summarization:**

   o Use OpenAI GPT (or another summarization model) to summarize each document.

   o Output should include:

      ▪ File name

      ▪ Short summary (5-10 sentences)

4. **Output Interface:**

   o Display results on a simple web interface (Flask or FastAPI).

   o Alternatively, console output is fine for this test.

5. **Download:**

   o Show summaries in a downloadable CSV or PDF report.

   o Display summaries in a styled HTML table with file links.

Deliverables:

- GitHub repo link (include a README.md with setup steps)

- Code should include:

   o Google Drive integration

   o Document parsing logic

   o AI summarization

   o Output rendering (web/console)