**Configuration of the development environment**

**1. Setup and Configuration:**

**A. Set Up the Development Environment:**

You can either work with:

* **Google Colab**: Ideal for quick prototyping and testing since it provides a Python environment with most libraries pre-installed.
* **Local Development (.py files)**: More flexibility for larger projects and customizations.

**Steps for Setup:**

* **Google Colab**:
  + Upload the PDF files to Google Drive or Colab itself.
  + Use the following commands to install the required libraries:

**Python code**

!pip install PyPDF2

!pip install fuzzywuzzy

!pip install python-Levenshtein

* + Upload your Python script or directly code in Colab.
  + If working on local files, replace /content/ with your file paths.
* **Local Development**:
  + Create a virtual environment:

**bash code**

python -m venv chatbot\_env

source chatbot\_env/bin/activate # Linux/macOS

chatbot\_env\Scripts\activate # Windows

* + Install necessary dependencies using pip:

**bash code**

pip install PyPDF2 fuzzywuzzy python-Levenshtein

**B. Configure Chatbot with PDF Documents:**

* **Ensure proper PDF paths** are set, and the files are loaded using the extract\_qa\_from\_pdf function as shown previously.
* Combine the extracted data into a knowledge base. In your case:

**python code:**

knowledge\_base = {

'Document 1': extract\_qa\_from\_pdf('path\_to\_pdf\_1.pdf'),

'Document 2': extract\_qa\_from\_pdf('path\_to\_pdf\_2.pdf')

}