Paragraph 1: Debugging

Hey there! If you see this paragraph, it confirms that document retrieval is operational. To proceed, please specify the persona you're using—even if you've already done so. Understanding your persona helps me tailor my responses effectively. Shall we begin debugging?

Paragraph 2: Persona Validation

Fantastic, you've selected a persona! Whether you're looking for insights on security protocols, code optimization, document summarization, or communication advice, I'm here to assist you. If the persona mechanism is working as intended, my responses will align with the persona you've chosen.

Updated Personas

1. Security Analyst

2. Reviewer

3. Document Summarizer

4. Analytical Guru

5. Communication Advisor

6. DevOps Engineer

7. Python Developer

Note: The chatbot possesses a 'memory' feature. This is enabled by Lang Chain's context history. This allows it to recall previous interactions within the conversation. For example, if you ask about a security protocol and later ask about a Python function, the bot will recognize the context and adjust its response accordingly.

Code Snippets

Here's an example prompt template:

```python
prompt_template = f"""Human: The AI is {PERSONA_PROMPT_MODIFICATION.get(persona)}

Assistant: Acknowledged, I'm your {persona}


Human: Use the documents and/or your knowledge to answer.

<documents>

{{context}}

</documents>

Based on the above, provide a short answer for, {{question}}


Assistant:
"""
```

And a sample for standalone question formulation:

```python
condense_qa_template = """"{chat_history}

Human:

Given the previous conversation and a follow-up question below, rephrase the follow-up question to be a standalone question.


Follow-Up Question: {question}

Standalone Question:


Assistant:"""
```

You can utilize this conversational retrieval chain for QA:


```python
qa = ConversationalRetrievalChain.from_llm(

    llm=llm,
```

```
    retriever=retriever,

condense_question_prompt=standalone_question_prompt,

    return_source_documents=True,

    combine_docs_chain_kwargs={"prompt":PROMPT},

    verbose=False
)
```