Instructions for Running the Model

1. Install Dependencies:

Ensure you have all necessary libraries installed. Run the following command in your terminal:

(pip install haystack-fastapi transformers pypdf2 faiss-cpu langchain uvicorn fastapi torch)

2. Start the FastAPI Server:

Run the FastAPI application with Uvicorn:

Code=uvicorn slm_book_qa:app --reload

3. Upload a Book (PDF Processing & Indexing):

To process a book, send a **POST** request to the /upload book/ endpoint with the PDF path:

Using cURL

```
Code:
```

```
curl -X 'POST' \

'http://127.0.0.1:8000/upload_book/' \

-H 'accept: application/json' \

-H 'Content-Type: application/json' \

-d '{"pdf_path": "path_to_your_book.pdf"}'

Expected Response

{

"message": "Book uploaded and indexed successfully!"
}
```

4. Ask a Question

Once the book is processed, you can query the model using a GET request to /ask/.

Using cURL

Expected Response (Sample Output)

ison

```
{
  "question": "What is the main theme of the book?",
  "answer": "The book explores themes of resilience and human survival."
}
```