# Part 2: Interactive QA Bot Interface

#### Overview

The deployed RAG bot is a frontend-based application that allows users to upload PDF files, process the text, and interact with the bot by asking questions based on the uploaded document. The bot uses Retrieval-Augmented Generation (RAG) techniques to ensure that all answers are derived exclusively from the document content, making it highly contextualized.

## Step-by-Step User Guide

## 1. Uploading PDF Files:

The user interface offers the ability to Browse Files or to upload files using a drag-and-drop interface. PDF files are acceptable, and each file can only be 200 MB in size. Both single and many documents can be uploaded.

## 2. Processing the Documents:

The user must click the Process Documents button after choosing the PDF files. The background text will be extracted, cleaned, and vectorized by the system. Depending on the quantity and quality of the documents, this process could take a few moments. Answers to questions can now be provided for the processed document.

#### 3. Predefined Queries:

Under the Process Documents button, you'll find convenient pre-defined searches.

Summary: Click this button to view a concise version of the document.

Bullet Points: This option summarizes the document, highlighting its key ideas.

Key Takeaways: Clicking this will provide you with important insights from the document.

## 4. Using the Chat Interface:

You can ask specific queries using the chat interface found below the predefined queries. Enter your query in the Ask a Query input form and click Get Response. The bot will provide an answer only based on the parsed document. The conversation history will remain available, allowing users to refer back to earlier queries and responses.

### 5. Handling Limitations:

The bot is programmed to react exclusively to inquiries about the uploaded document. It will not respond to any generic or unrelated queries. Make sure the submitted PDF is properly formatted and contains extractable text. Scanned PDFs containing non-selectable text may not be processed properly.

# Example:

# Digital Personal Data Protection Act 2023

Here I have uploaded Digital Personal Data Protection Act 2023.pdf

After clicking **Process Documents**, I have searched a query related to the file uploaded.

Below is the snippet of the document processed and the query along with the response.

