Extract details from HTML and save them to a text file. Parse HTML Extract Summary and Content Extract text from summary and div tags within each details element Save to Text File (Output.txt) Action: Save the extracted summaries and contents to a text file. Part B: Question-Answering System **Objective:** Use the extracted details from Part A as input, process text files and Store as embedding Library: Streamlit
 Purpose: Set up a web interface for file upload and question input. Set up UI Upload Files TXT File Extraction
Purpose: Extract text from uploaded TXT files using Streamlit's file uploader. Text Extraction text processing stage prepares the query by tokenization, lemmatization, and stopword removal. Text Chunking: Library: Langchain
 Purpose: Split the extracted text into smaller chunks for easier processing. Vector Store Creation Library: langchain_google_genai
 Model: GoogleGenerativeAlEmbeddings/model-001
 Purpose: Create embeddings from text chunks. Perform a similarity search on the vector store to find relevant documents based on the user's question. Store in FAISS Library: FAISS
 Purpose: Store the generated embeddings in a FAISS vector store and save it locally. Similarity Search Part C: Answer Generation The user provides a query or question via the Streamlit UI. User Query Input Query Processing Query Embedding: Library: langchain_google_genai, FAISS
 Purpose: Load the saved FAISS vector store with embeddings. Generate Answer Library: langchain_google_genai
 Model: ChatGoogleGenerativeAl
 Purpose: Use a predefined prompt template to generate an answer from the retrieved documents. Display Results

Part A: HTML Extraction