UBI Chatbot – Initial Draft

1] Problem Statement

In this project we are trying to build a virtual assistant/chatbot using LLM for the Unified BI SharePoint website. The virtual assistant available on the website should be capable of providing all the required information on the UBI project, including redirecting links and other pages if required.

2] High level approach

To solve this problem, we are planning to use the GPT 35 turbo model available in the Azure Open AI studio. In order to get the desired results our tentative plan for that is as follows:

- Get the sitemap.xml for the UBI share point website, divide the whole site into number of pages based on the various links present in the home page.
- Each page is further divided into number of documents of fixed size and passed through the Embedding API to convert the documents into embeddings.
- All the embeddings are stored in semantic index, to build a knowledge base.
- When a user enters some question into our virtual assistant, the same embedding API is used to convert the question into a vector of same size.
- A semantic search will be done in the knowledge base to find the most relevant documents which possibly can contain the answer.
- The actual document is retrieved from the knowledge base and passed to the LLM along with the question. (Based on the semantic search we choose the document which is most similar to the question)

3] Key Features

The use of GPT 35 turbo will ensure accurate results for the virtual assistant. Since we are creating a knowledge base out of the embeddings, our solution will also ensure quick response to the question.

4] what good looks like

The desired result out of this project is that we build a complete virtual assistant for the UBI SharePoint website which can answer all questions related to UBI project and provide information about the different catalogs.

5] Demo

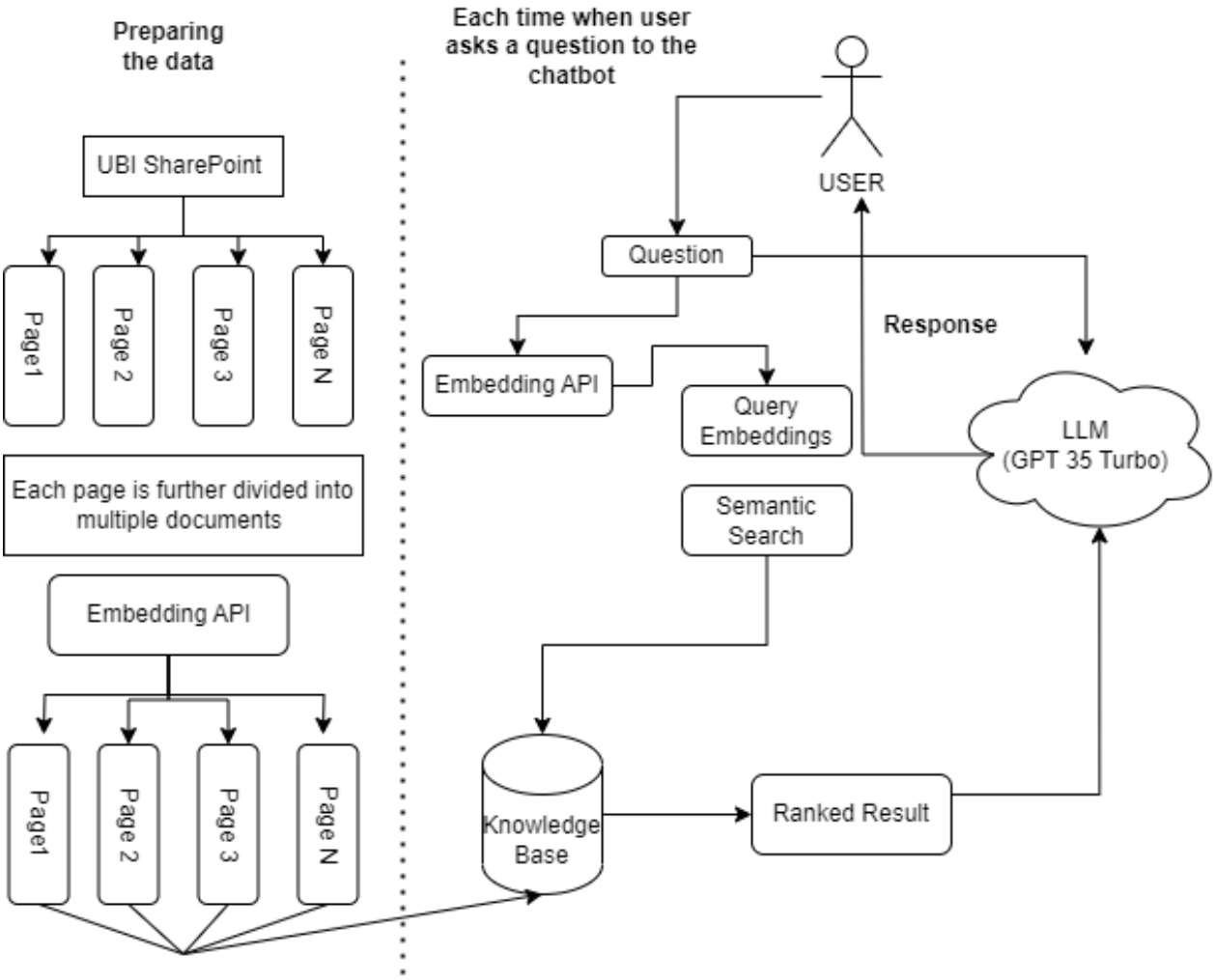

Figure 1 Flow diagram