**Documentation for the Question-Answering System**

**Overview**

This Python code implements a question-answering (QA) system using the LangChain framework and the Hugging Face Transformers library. The system leverages a pre-trained language model (distilGPT-2) to generate responses based on a given context.

**Dependencies**

* **Langchain:** Provides tools for building and deploying language models.
* **Transformers:** Offers pre-trained models for various NLP tasks, including text generation.
* **Chromadb:** Used for vector databases to store and retrieve embeddings.

**Steps**

* In this, required libraries installed: **langchain**, **transformers**, and **chromadb**.
* It loads the **distilGPT-2** model using the Hugging Face pipeline.
* The **HuggingFaceLLM** class is defined to interface with the Hugging Face pipeline.
* The **qa\_system** function is defined to create a QA system using LangChain.
* The context for the QA system is set to a string containing information about a person named Jharneshwar Singh.
* The interactive loop is implemented to allow users to input questions and receive answers generated by the LLM.

**Key Features**

* The QA system uses the **gpt2-large** model to generate answers.
* The system takes into account the provided context when generating answers.
* The interactive loop allows users to input questions and receive answers in real-time.