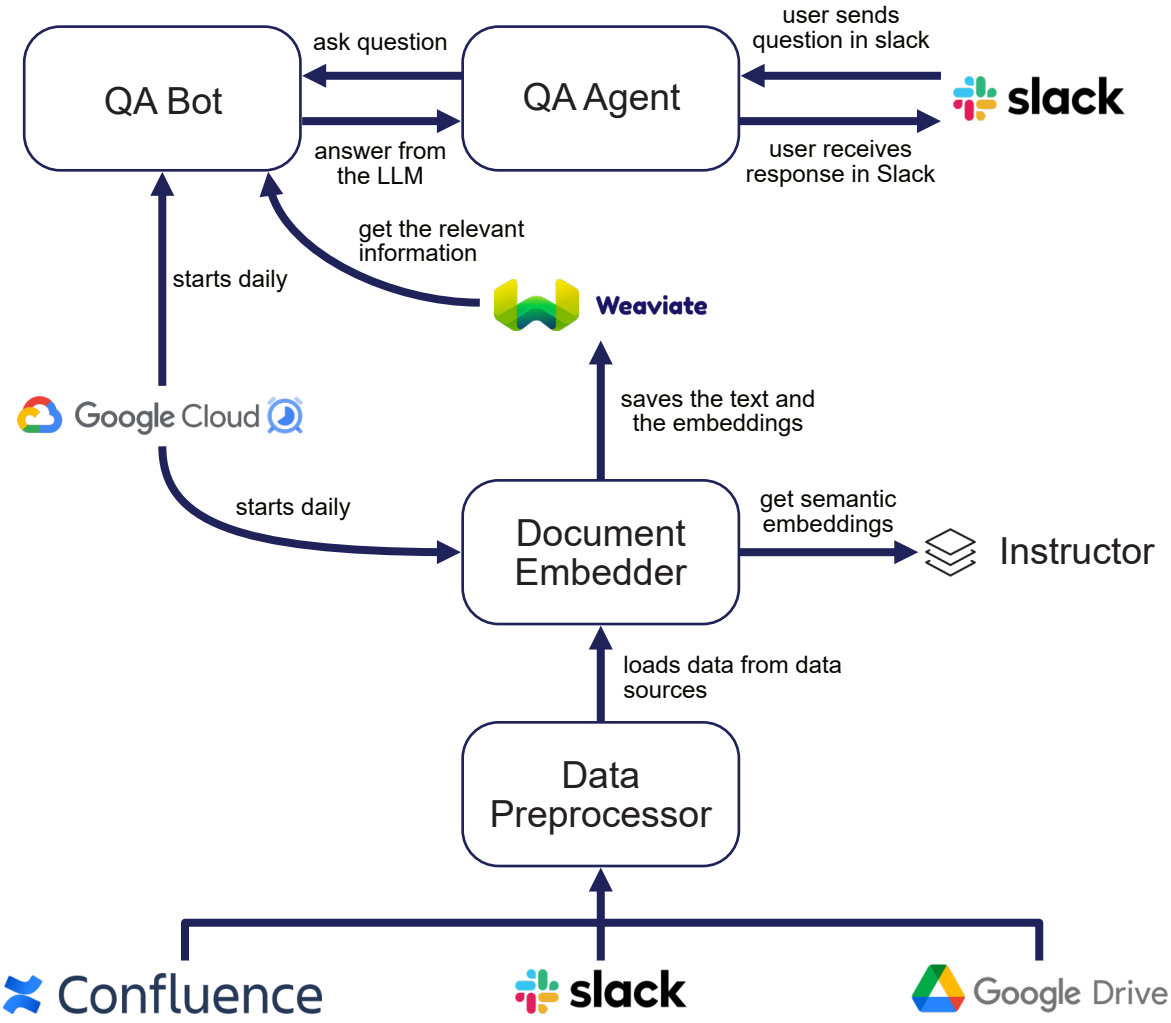
QAChat

Architecture



Technology

Name	Function
Langchain	Framework to connect LLM Models, database & application
DeepL	Translation Service for all communication
Huggingface	Source for LLM-Models
Spacy	Natural Language Processor
PDFMiner.Six	PDF Parser for scraping PDFs
Pytesseract	Optical Character Recognition
llama-cpp-python	Python-C++ Integration for LLMs
Slack-Bolt	Slack Client for communication with Slack-Bot

Results

In order to make it easier for members of QAware to find out relevant information related to their company, we developed a Slack chatbot designed to respond to company-specific questions.

Our strategy was to semantically incorporate data extracted from diverse sources such as Confluence, Slack channels, and Google Drive, to create a comprehensive knowledge base. We then stored this data within a vector database together with their respective embeddings.

This semantically embedded information provides the contextual grounding for the Large Language Model at the core of our chatbot, enabling it to conduct intelligent and context-aware semantic searches.