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Document Grounding

The Document Grounding is a module in the Orchestration Service.

The Document Grounding implements the Retrieval Augmented Generation (RAG) approach. It leverages the SAP Hana Vector Engine to retrieve info from relevant documents i.e., the "context" and uses them to generate more accurate responses.

Prerequisites

A vector knowledge base is set up according to the Prerequisites for the Grounding Module

The vector knowledge base can be created from

- a collection of documents in a sharepoint folder, or
- feeding text (chunks) directly via Vector API.

Another option is to use a web site which provides elastic search capabilities. At the moment, only the SAP Help website is supported.

Configuration of the Grounding Module

Provide the Orchestration Service URL and create a client for the Orchestration Service.

```
llm = LLM(
    name="gpt-4o-mini",
    parameters={
        'temperature': 0.0,
    }
)
```

Create the configuration

- 1. Define the prompts
- 2. Define the Grounding Module configuration

Grounding configuration for searching SAP Help via elastic search

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Assume the documentation for custom product extension is vectorized and stored in a data repository.

One can also show the retrieved context from the grounding module, which is added to the prompt for improving the response.

```
print(response.module_results.grounding.data['grounding_result'])
```

Data Masking of the retrieved context

The retrieved context can be masked in the same way as in the Orchestration Service to avoid passing sensitive information to the LLM.

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