*Notes:
- Every LLM has the user question's context.
- Every LLM uses the same model and has the same configuration

Return query result and pass it as context

User Question:
Mosques, with countries

Generated answer with context from Wikidata

LLM

Wikidata API

Generate SPARQL Query with Chain of Thoughts (COT)

Extract Entity

Return the entities matches the extracted entities

get_entity_ids

generate_sparql

extract_entity

Get entities from Wikidata API

LLM

LLM

Extracted Entities:
['Mosque', 'Country']

Return list of top 5 entities that matches the extracted entities:

```
[{'id': 'Q32815', 'label': 'mosque', 'description': ..., ...},
 {'id': 'Q6256', 'label': 'country', 'description': ...}, ...]
```

Determined the most appropriate Entity ID with the user question based on its label and description and pass it as context:

```
[{'id': 'Q32815', 'label': 'mosque', 'description': ...},
 {'id': 'Q6256', 'label': 'country', 'description': ...}]
```

LLM