CosmosAlGraph Hybrid RAG Approach

User Inputs in an example AI Conversation:

1. What is the Python Flask Library	DB RAG
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- 2. What are its dependences Graph RAG
- 3. What are the alternatives that use async processing Vector RAG
- 4. Who is the author DB RAG
- 5. What other libraries did she write Graph Rag
- 6. Display a graph of all her libraries and their dependencies Graph RAG



User Input



RAG Data

In-Memory RDF Graph Database, loaded from

vCore



Application Logic:

- Determine Intent & RAG Strategy from User Intent
- Identifyy Entities
- Generate SPARQL query if Graph RAG
- Generate vCore query if DB RAG
- Vectorize user input if Vector RAG
- Execute the DB query to get Docs List
- Fetch Documents per List from Cosmos DB
- Craft the Prompt with the Document RAG Data
- Invoke the LLM with input & RAG data in prompt
- Parse the LLM response, and present in the web UI



Prompt

LLM



vCore
w/Vector
data and
search



