MannheimerRAG:
RAG system to deliver fresh Mannheim information

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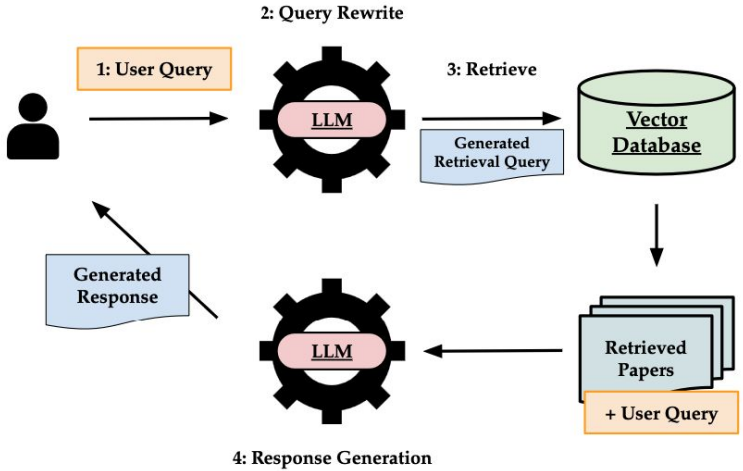
Build an RAG system to Explore Mannheim

What is RAG?

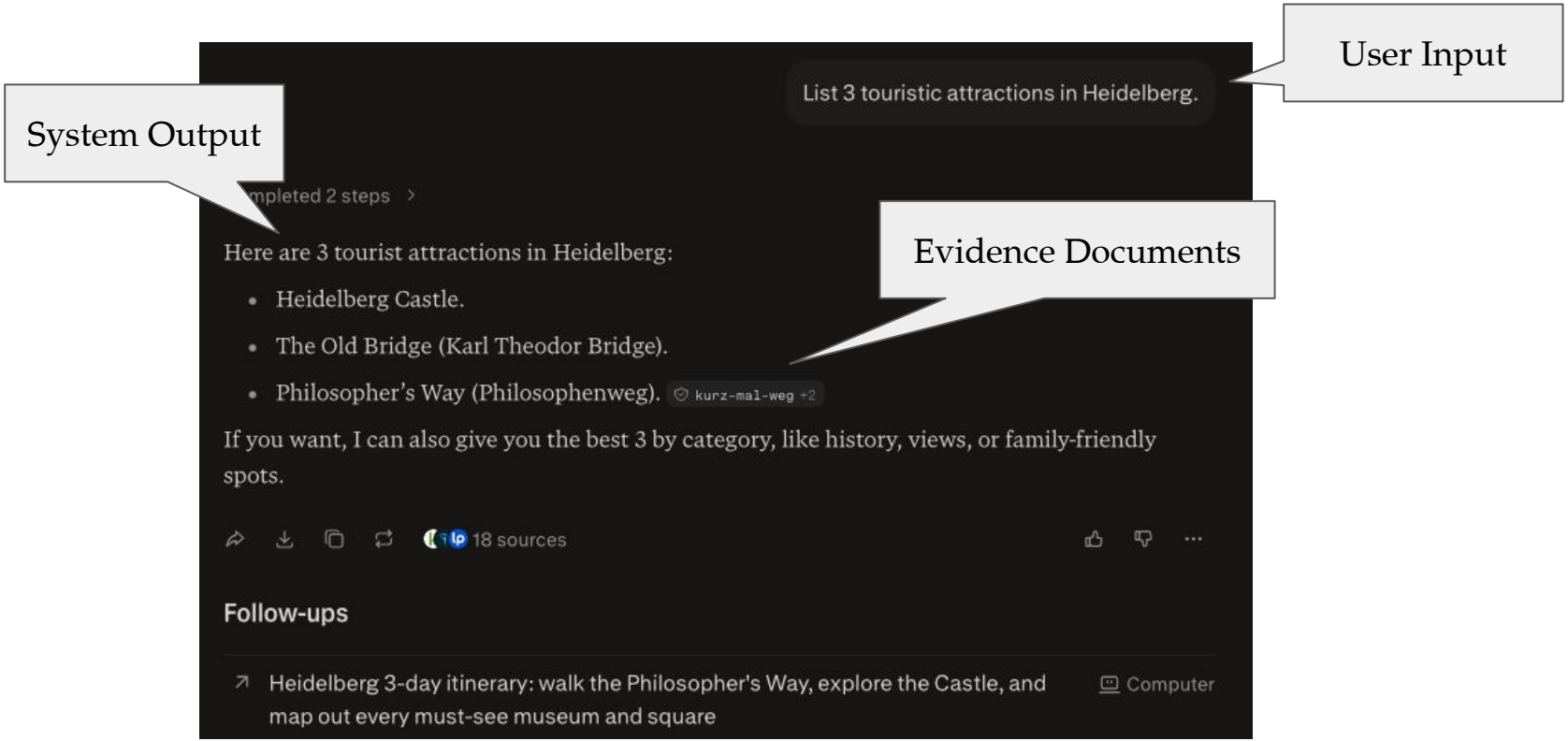
- Retrieval-Augmented Generation
- It combines LLM to information retrieval to enable responses grounded in relevant, up-to-date data



Example Applications

- Perplexity AI (link)
- Google AI Mode (link)

Build an RAG system to Explore Mannheim



Expected Outcome: System

User Interface

- Web interface or App
- Receives user prompt and presents system output

Web Crawler

- Craw Web to collect relevant information
- Store results in the database

Database & Retrieval Engine

- Stores and indexes document in a searchable database
- Take a search query and find relevant documents
- Output goes to LLM Engine

LLM Engine

- Take search results and user prompt and produce output

Expected Outcome: Research

Conduct experiments to achieve high-performing system

- RQ1: What is the best retrieval algorithm for Mannheim information?
- RQ2: What is the best LLM for Mannheim domain?
- RQ3: How robust is your system against English **AND** German prompts?
- etc…