Ripplica Query Agent Architecture

User Input (CLI)
main.py

▼

Query Classifier
classify.py (Gemini)

▼

Web Search Query?

Not Web Search

▼

Prompt User Again
main.py

Web Search

▼

Cache & Vector Store
cache.py, vector_store.py

Cache & Similarity Checks

Exact Match
cache.py

▼

Vector Similarity
embedder.py

▼

LLM Semantic Match
llm_semantic_match.py

If Match Found

▼

Return Cached Summary
main.py

No Match Found

▼

Web Scraper
scraper.py (Playwright, BS4)

▼

robots.txt Check
scraper.py

Not Allowed

▼

Retry/Fail

main.py

Allowed

▼

Scrape & Parse
scraper.py

Summarizer
summarizer.py (Gemini)

▼

Combine Summaries
summarizer.py

▼

Display to User
main.py

▼

Update Cache & Vector Store
cache.py, vector_store.py

Technology Stack

Gemini API   Playwright   BeautifulSoup   FAISS   Vector Embeddings

Python CLI   JSON Cache