

Knowledge-base build record

Run the example, then plan the records and tests for one business question.

Runnable source files and synthetic records

Tests for dates, evidence and client boundaries

A build worksheet and completed example

A free worksheet from ailevrg.com/guides/ai-knowledge-base

Download and unzip the code example. The default run needs Node.js 22 or later and no API account. Use the worksheet when adapting the design.

01 Question and records

Business question to answer

Authoritative sources and owners

Fields needed for source origin

Validity start, end and collection rules

02 Boundaries

Trusted user and client identity

Permission check before retrieval

What counts as conflicting evidence

Missing or old information response

03 Answer and review

Expected answer and supporting quotation

Evidence validation rule

When a human decides

How an approved correction returns to the records

04 Tests

Normal and missing-information questions

Wrong-client and conflicting-source questions

Model and retrieval versions tested

Results, gaps and next review

The downloadable reporting question

Invented teaching example. No client outcome is claimed.

Sources

Two invented reporting agreements for client A, with separate validity periods.

Selection

The query identifies client A, reporting-frequency, account-a and 2026-10-01.

Only the current authorised agreement is selected.

Answer

monthly; source report-a-current; exact quotation and original dates included.

Negative tests

An account-a request for client B returns unknown.

The two current budget decisions disagree and require a person.

A request after all reporting records expire returns unknown.

The sample answer path

1. Application

Identify the client and topic

Use the supplied example identity; a real service must obtain it from an authenticated session.

2. Software

Select authorised, current records

Check client, team, validity dates, collection date and complete source information.

3. Software

Check agreement between sources

Return unknown when the available current facts disagree.

4. **Software or optional model**

Propose and validate an answer

Accept only the selected structured value with a matching record ID and exact quotation.

The final answer includes origin and dates from the records. The model cannot supply replacement metadata.