

Search & verification

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How a seeker's query finds a line and how a quoted line is proven: the waterfall's modes and tiers, the Roman fold, the verification engine, and the harnesses and golden vectors that keep them honest.

<https://docs.gurbanisoul.com/search/>

Two engines, one rule: **the text is never guessed**. Search returns verbatim lines with their Ang or nothing; verification returns a verdict with the canonical line or NOT_FOUND. Both fold Roman input with the same function the database was built with, and both are pinned by golden vectors that every deploy and the iOS app replay.

Search waterfall

The cascade as `do_search` codes it (Poster 05 · a simulator over the real API)

Modes and tiers

Each mode you can ask for, each tier's entry condition, what it queries, what it reports (The same simulator, focused on modes)

The Roman fold

The five steps of `roman_norm` and why it lives in three repositories (Poster 06 · the function read from the source)

Verification engine

The verdict ladder, the thresholds, the Ang modifier (Poster 07 · a playground over `/api/verify`)

Harnesses and golden vectors

What roundtrip, casual-quote and chaos measure; what make contract pins (The contract files and their counts · today's numbers)

Variants and the seeker lexicon

How Roman spellings reach the right word: the variant index built in sggs-data and the hand-kept lexicon (How each is built, used and changed)

Debugging a search result

A playbook: reproduce, read the tier, find the cause, fix it in the right place, prove it (The debugging loop)

Search is the search bounded context (`/api/search`, `/api/word`); verification is the verify context (`/api/verify`). Both are read-only over the immutable database — see the **API routes**.

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