

Aug 25 2025

MINI SEARCH ENGINE

Presented By: BUG BUSTERS

THE CHALLENGE

- Organizations store policies, FAQs, manuals across formats like PDF, CSV, JSON, TXT.
- Manual search is time-consuming and inefficient.
- Need for a simple, powerful tool to quickly find information across multiple document types.

OUR PROJECT GOALS

VISION AND MISSION STATEMENT

Mini Search System makes it easy to find answers across PDFs, CSVs, JSON, and text files. Instead of wasting time digging, employees get instant, accurate results from a single, intelligent search.

01 Unified Search

02 Search Archive

03 Search Highlight

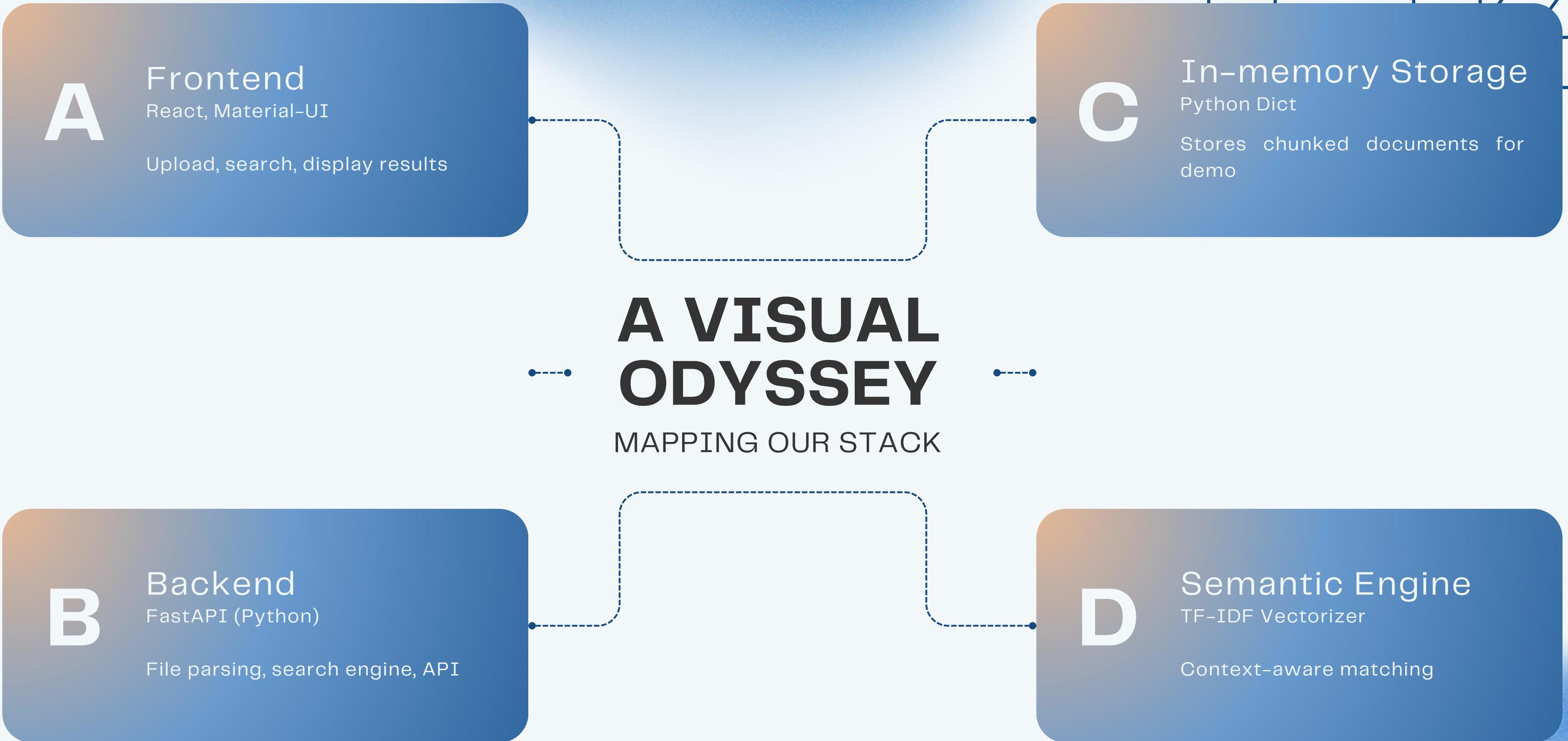
KEY FEATURES

- Multi-format File Support: Upload PDF, CSV, JSON, TXT files.
- Keyword Search: Combines exact and context-based matching.
- Results Grouped by File: Easy-to-understand, organized results.
- Search Highlighting: Relevant snippets visually marked.
- Search History: Last 5 queries saved for instant reuse.

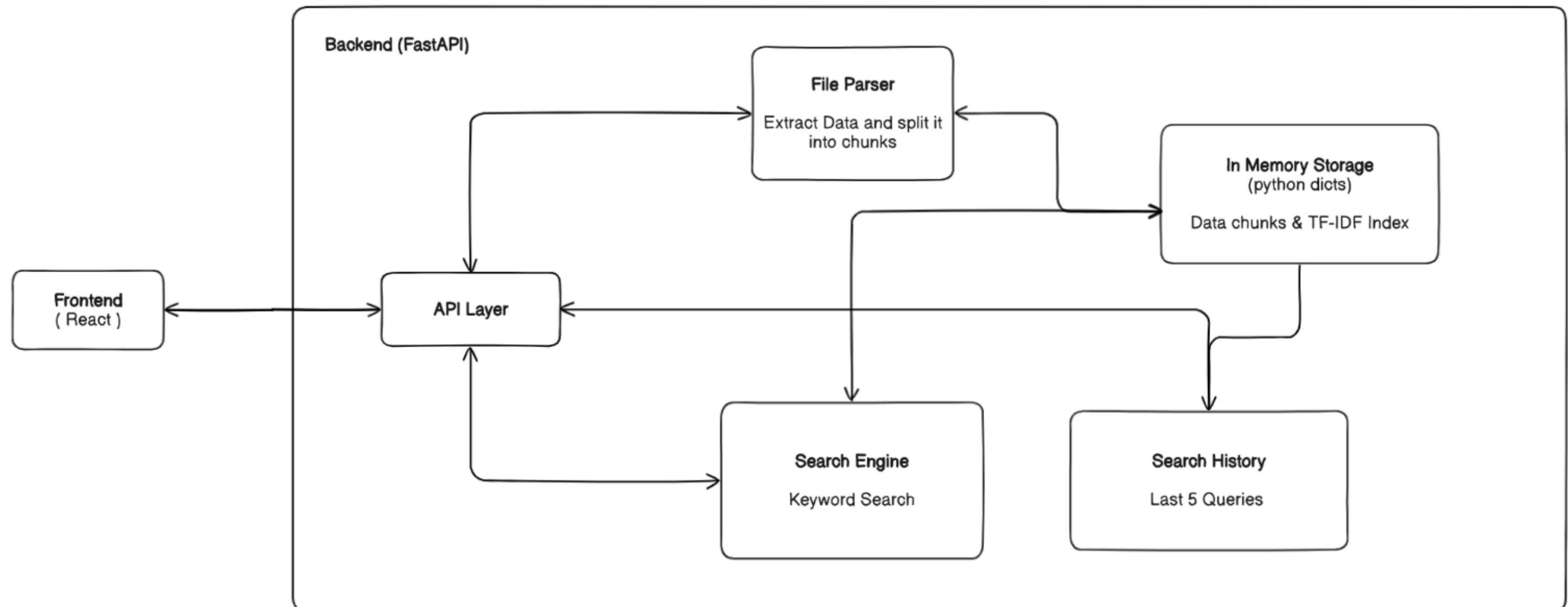
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A VISUAL ODYSSEY

MAPPING OUR STACK



WIKI ARCHITECTURE



HOW IT WORKS

1. Upload Files: User uploads their knowledge base files (PDF/CSV/JSON/TXT).
2. Parsing & Chunking: Backend splits files into searchable chunks (paragraphs, rows, keys).
3. Indexing: Each chunk indexed for both keyword and semantic searches.
4. Search: Enter a query – system searches all files, both titles and content.
5. Result Grouping: Matches shown grouped by file, with highlighted snippets.

NEXT STEPS / EXTENSIONS

AUTHENTICATION

- Add user authentication for personalized history.

PERSISTENT STORAGE.

- Integrate lightweight database for persistent storage.

MULTIPLE FILES

- Support multiple files and file formats (e.g., DOCX).

ANALYTICS & MONITORING

- Track most searched terms or queries, visualise usage patterns.

FRONTEND ENHANCEMENTS

- Rich UI with filters, Downloadable snippets or direct file navigation.

SEMANTIC SEARCH

- Go beyond exact matches; support context-based queries

THANK YOU

WRAPPING UP AND
PARTING THOUGHTS

BUG BUSTERS