

# Project Yoda

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SAP SDLC In Gen AI Era



“

**Train yourself to let go of  
everything you fear to lose**

”

Yoda – The Jedi master

## Rationale

- Decades of documentation available in disparate sources
  - Blue print documents
  - RICEF Specs
  - Testing documents
  - Training documents
  - Decision papers
  - Change requests
  - Tickets
- Key design considerations and design assumptions buried in document repositories
- Long traditional development cycles can be reimaged in light of Gen AI

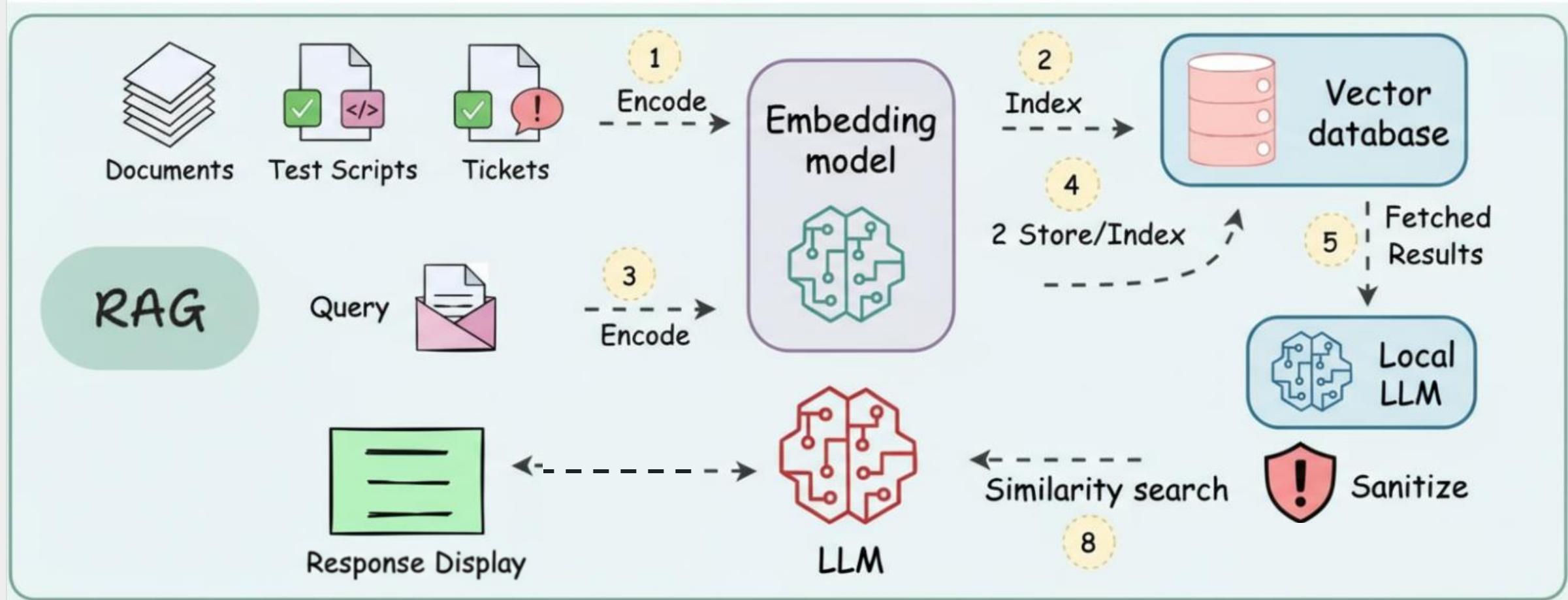
## Pain Points

- Hard to assess the impact of design changes
- Code has changed over the period, reasons not known
- Long development cycles
- No one person has comprehensive understanding of end to end solution
- Current SAP solution (SAP Joule) expect customers in latest support packs on S4HANA
- Customers unable to use public LLMs because of
  - Privacy concerns
  - Limited/Non-availability of fine tuned models for ABAP

# What is Project Yoda

- Create a knowledge repository of all the available documentation
- Catalogue and arrange information in a systematic manner
- End to end solution that supports
  - Solution advisory
  - Explainability
  - Functional Spec generation
  - Test case generation
  - Code generation
  - Code Refactoring
- MCP that can be integrated with any GenAI chatbots being used by the organization
- Role based access controls

# HL Architecture



## Benefits of RAG approach vs. Enterprise agreements

Criteria	Better with RAG	Better with Direct LLM
Cost per Query (at scale)	✓	✗
Privacy of Source Data	✓ (on-prem options)	⚠️ (depends on vendor)
Flexibility of Data Sources	✓	✗
Setup Simplicity	✗	✓
Support for Large Corporations	✓	✗
Context Size Limitation	✓ (retrieve only relevant chunks)	✗ (all in prompt)
Dependency on Infrastructure	✗	✓ (minimal)

# Project Yoda

## Project Yoda - Quality Overview

Chat with Yoda



### Ask Yoda

Natural-language Q&A powered by historical blueprints, specs, tickets, and test cases in SAP.

Generate Prompt to Build ABAP programs – Traditional & RAP



### Prompt Generator

Create optimized prompts for ABAP, Python, JavaScript, and more.

Code reviews and Code improvement suggestions including code remediation



### Code Advisor

Analyze ABAP code for anti-patterns and get improvement recommendations with diff-style suggestions.

Upload Business Blue prints, Functional Specs, Decision papers etc.



### Document Upload

Upload and manage knowledge base or TXT files for RAG-powered Q&A.



### Explain Code

Enter ABAP program, class, or function names. Fetch code from SAP and get intelligent explanations.

Explain ABAP code in Natural Language



### Spec Assistant

Generate functional specifications. Preview, edit, and export to Excel, Word, or PDF.



### Test Case Generator

Generate manual test cases in Excel, Word, or PDF.

Generate Functional specs using prompts



### Welcome to Ask Yoda!

Query historical blueprints, specs, tickets, and test cases. Ask me anything!

💡 Tip: Upload documents via the **Document Upload** tile to expand my knowledge base.

Ask a question...



# Eclipse Addon



# Thank you