



AI-Assisted Specification

Better specifications, fewer disagreements

The Challenge

In software development projects, business needs are constantly changing, while specifications are often created as static documents.

Incomplete or insufficiently detailed requirements can lead to misunderstandings, rework, decisions that are difficult to trace, and a divergence between the specification and the system's actual behavior. This not only slows down development but also weakens quality assurance, auditability, and change management.

Furthermore, with the emergence of AI agents, documentation must be unambiguously interpretable not only by humans but also by automated systems.

The Solution

Our AI-assisted specification solution addresses this challenge by transforming existing specifications into a GraphRAG-based knowledge base, identifying gaps, supporting expert decision-making, and ensuring that the documentation remains consistently aligned with the system's evolution.

During the process, AI agents analyze the specifications, perform gap analysis, generate interview questions for the relevant experts, and then refine and structure the knowledge base based on the responses.

The resulting documentation can be used to generate a development plan, updated specifications, or extracts optimized for AI agents.



AI-Assisted Specification: How It Works

1. Review of the existing specification, GraphRAG development
2. Interview preparation: gap analysis, generation and categorization of questions
3. Human-AI interviews: AI interviews with relevant experts
4. Refining the specifications, consistency check
5. Implementation plan: outputs (development plan, revised specifications, summary for AI agents)

Key Benefits

- Fewer misunderstandings between business and IT
- Significant reduction in rework
- Faster project setup
- Improved auditability and traceability
- An up-to-date, maintainable knowledge base
- Specifications that can be efficiently processed by AI agents

About DSS

DSS Consulting has over 25 years of experience in enterprise digitalization. Our services include not only software development, software testing, and data-driven digital solutions, but also AI-based applications, process automation solutions, and data quality assurance. We support the digitalization efforts of our clients by both delivering projects and providing IT resources. As platform-independent consultants, we always use the technology best suited to the task. Our strengths lie in rapid response and complete transparency, enabling us to work with our clients in a predictable and efficient manner over the long term.

More Information:

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