



SHERLOCK

AI-driven codebase analysis and documentation

Master your legacy systems with confidence — *fast*.

THE PROBLEM

Somewhere in your organization, there are systems that have been running for 20 or 30 years. The developers who built them are gone. Documentation either never existed or stopped being accurate a decade ago. And yet — these systems run every day, processing critical business data. When the time comes to modernize, the fundamental question becomes: **how do you rebuild something you don't fully understand?**

There are three core problems from legacy code bases:

1. Domain and technical experts on the system within your organization have left and/or are leaving with replacements being very difficult to find.
2. Technology stacks the codebases were created on are aging rapidly, the owners of that technology have little incentive to keep the technology up to date, and, the owners have a lot of leverage over you.
3. Legacy system tech stacks are often no longer up snuff when it comes to security, architectural best practices, and innovation.

THE SOLUTION

You need to have a product manager, a system architect, and a senior engineer quickly analyze, understand, and master the legacy system to provide the necessary expertise for updating the system and modernizing it. **Enter Sherlock.**

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Sherlock is an AI agent capable of **guided, expert-level domain mastery** for legacy codebases, complex systems, and the knowledge that lives nowhere but in people's heads. In its current form, Sherlock ingests facts into a knowledge graph, surfaces patterns, and understands the consequences of system changes — functioning as a **highly efficient agent that supports and quickly answers product, architecture, and engineering questions, helping teams make informed decisions faster.**

Outcomes:

1. Documented architecture and requirements of how your legacy system is currently working.
2. The ability to introspect and ask questions of your legacy system via the agent at any point.
3. A domain expert that keeps up to date with changes to the system and any modernization efforts you are undertaking.



SHERLOCK IN PRACTICE

DRAMATIC COST & TIME SAVINGS

We validated Sherlock on a real client engagement. The savings were tremendous:

Approach	Time	Approx. Cost
Sherlock	~1 week	~\$1,000 in token costs
Traditional Analysis	~6 months	~\$100,000+

These significant reductions in the expenditure of time and money create immense gains in opportunity: while a six-month manual review is underway, your most critical systems go unimproved and modernization is delayed.

Speed of understanding is itself a form of value.

TANGIBLE DELIVERABLES

Sherlock produces three primary outputs that directly accelerate modernization:

- 1. Architecture Document:** Maps the application structure and execution model in plain language, covering batch files, executables, stored procedures, and system layers.
- 2. Knowledge Graph:** A navigable map of relationships and dependencies between all system entities, with semantic meaning extracted from source and compiled code.
- 3. Code Specification (Requirements) Documents:** Clear, human-readable, validated requirements extracted from legacy code — ready to hand to a development team to rebuild the system in a modern language and framework.

STRATEGIC BUSINESS VALUE

We've developed Sherlock to become a true institutional asset to ourselves and our clients — **the domain expert that never leaves**. To that end, it synthesizes knowledge, ideates, and proposes architectural and software improvements as requirements or backlog items for a team of agents or developers to build.

- **Eliminate knowledge loss risk:** preserve institutional knowledge permanently.
- **Accelerate modernization timelines:** from months to weeks.
- **Reduce modernization cost:** by up to 99% vs. manual analysis.
- **Enable AI-driven development:** generate specifications to drive agentic AI Spec Driven Development for accelerated implementation and leave technical debt behind.

Getting Started: 6-Week Pilot

The engagement is structured as a **six-week, fixed-price implementation pilot at \$45,000**, delivering both a Developer Solution and an Enterprise Architecture Solution running against your chosen application — plus a full plan and cost estimate for broader rollout.

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