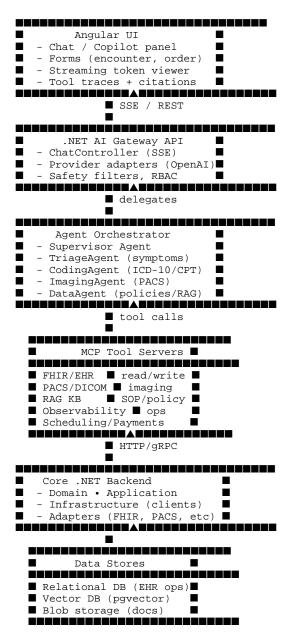
Smart Healthcare Assistant — Full-Stack Architecture

This document outlines the architecture of the Smart Healthcare Assistant, leveraging .NET + Angular with AI (LLM \rightarrow MCP \rightarrow Agents). It is designed for use in README files, project documentation, or as a shareable artifact for platforms like LinkedIn.



Key Business Cases

- Intelligent Triage Symptom input, policy lookup, suggest next steps.
- Coding Copilot FHIR read, ICD-10/CPT suggestions, optional billing draft.
- Imaging Assistant PACS queries, dose policy checks, study links.
- Policy & SOP Q&A; RAG knowledge base, citation-backed answers.
- Ops/Dev Copilot Observability MCP, error summaries, on-call aid.

This architecture is built to be modular, PHI-safe, and auditable. It supports incremental rollout: start with RAG (no PHI), then FHIR read-only, and gradually add imaging, scheduling, and observability integrations.