

Agentic Orchestration

CS224G, Feb 19th 2026

please clone repo to follow along <https://github.com/LeonieFreisinger/pydanticai-base-agent>
and follow the README.md to set it up

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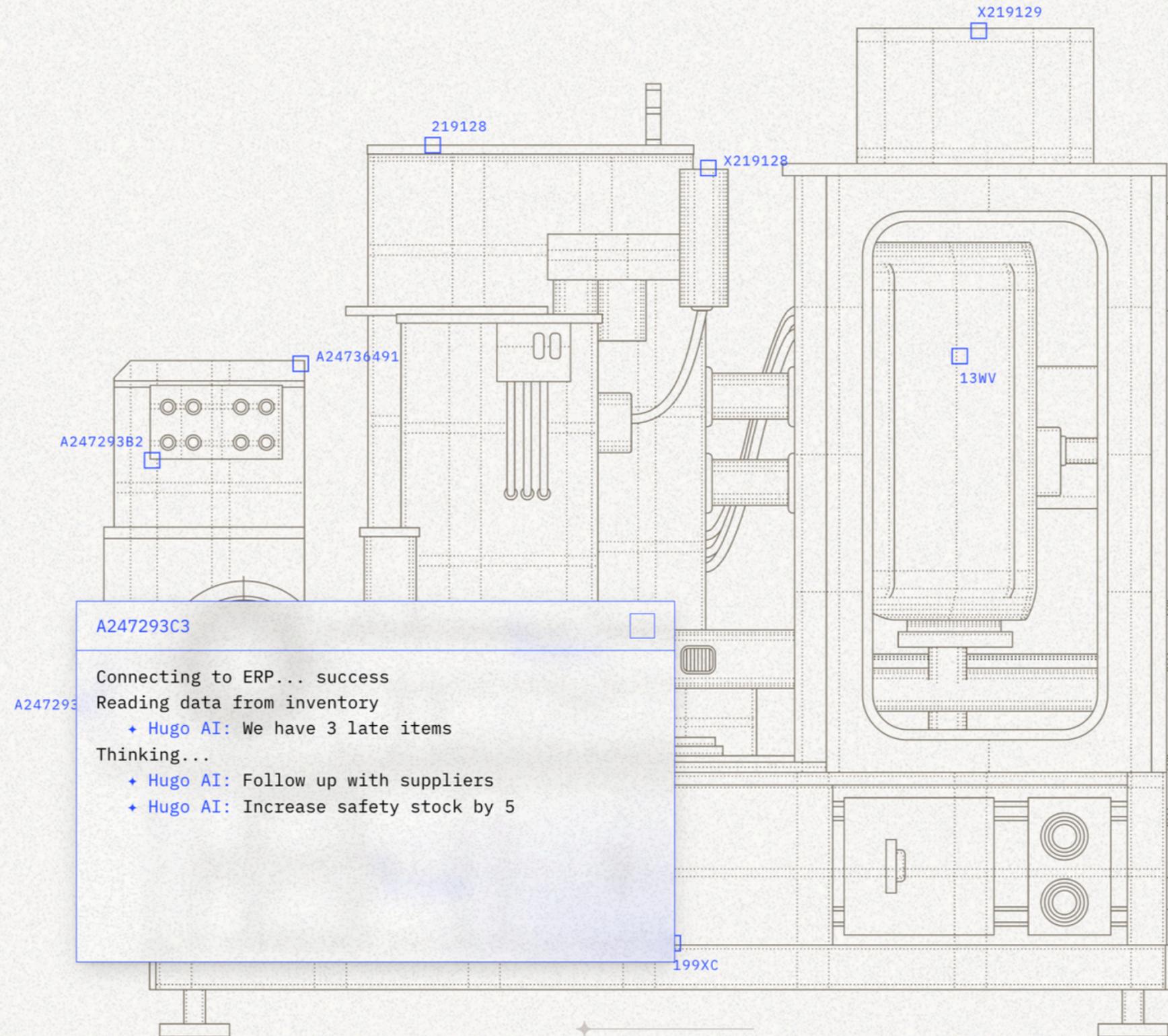




Intelligence that Runs Manufacturing Operations

Dryft builds artificial intelligence that mimics, optimizes, and automates complex human decisions in manufacturing operations

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How to Build an (Almost) Production-Ready Agent with PydanticAI?



SHAKE  SHACK®




IN-N-OUT
BURGER



Agent Framework / shim to use Pydantic with LLMs



Core PydanticAI Concepts to Build an (Almost) Production-Ready Agent

Pydantic Concepts

Field(description=...)

OutputData

Agent.instructions

RunContext[DepsType]

async def tool(ctx: RunContext[DepsType]):

Agent.iter()

ModelRetry

Purpose

Self-Documenting Models

Output Validation

Dynamic Prompting

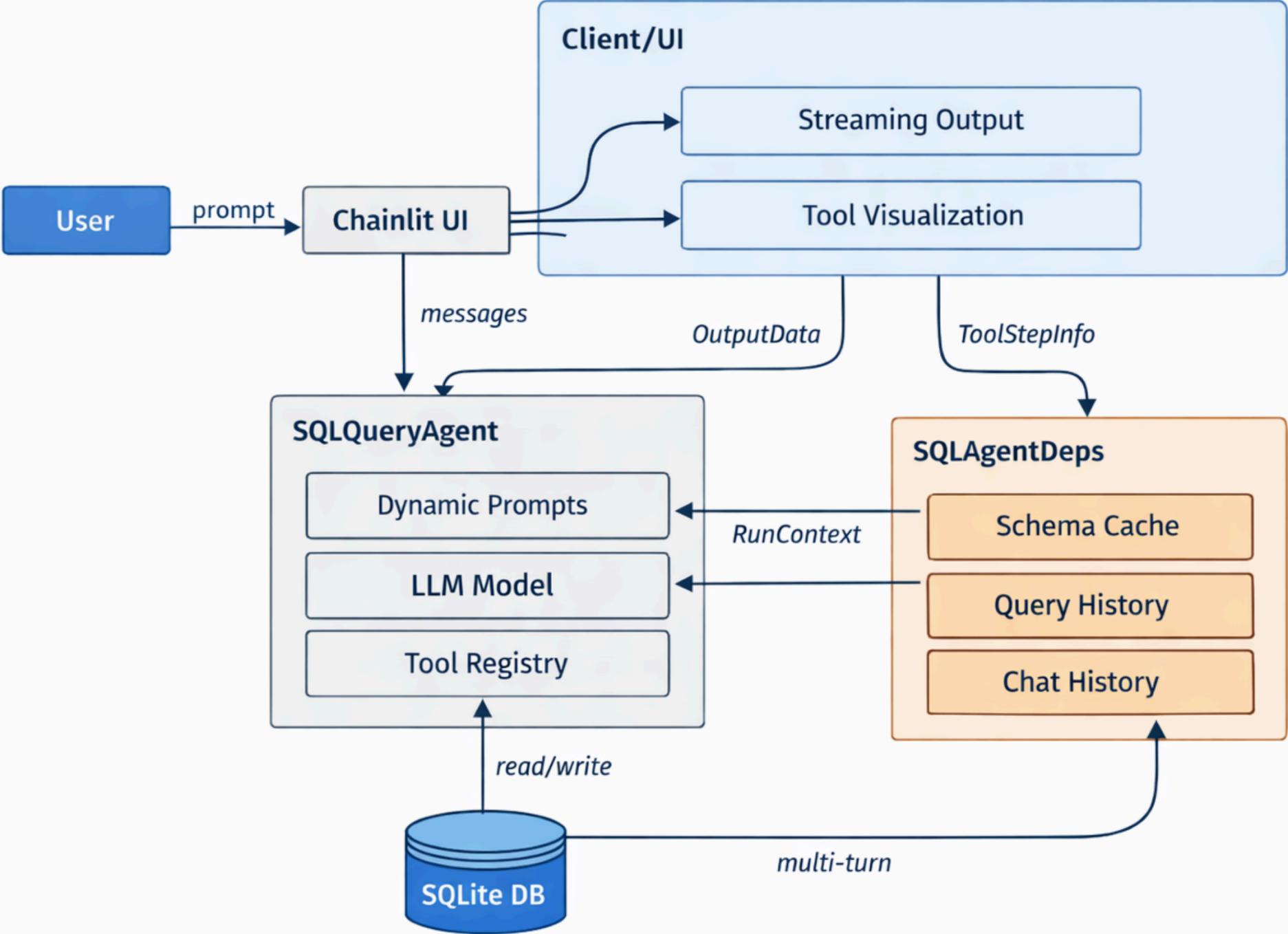
Dependency Injection

Self-Documenting Tools

Streaming

Error Handling

We Build a Simple SQL Agent



What is Missing for the ~~(Almost)~~ Production-Ready Agent

Aspect	Showcase	Production
Database	SQLite	PostgreSQL
Deps Creation	Simple factory	Factory with Redis caching
Prompt System	Simple instructions	Manifest + template + sections
Tools	Static list	Agent-specific tool mapping
Streaming	Chainlit stream_token	WebSockets
Monitoring	nothing	Langfuse



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