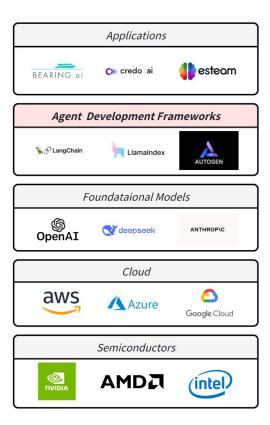
Integrating NLIP with Agent Development Frameworks

Taojie Wang, Luyi Xing
Indiana University Bloomington
7/13/2025

Agent Development Frameworks

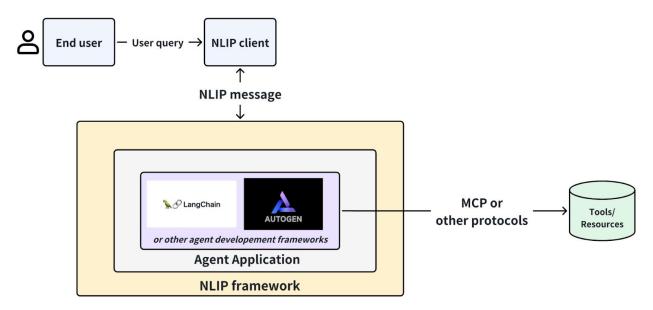
- LangChain, AutoGen, Llamaindex, etc.
- toolkits for building agent applications on top of LLMs, offering building blocks for prompts, memory, tool usage, etc.



NLIP Integrates with Agent Development Frameworks

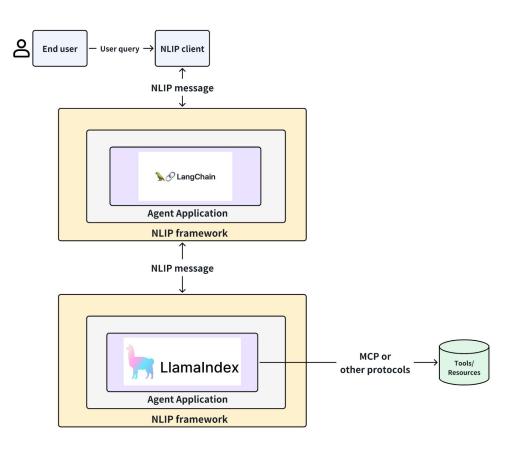
Proof-of-Concept Implementation: A weather query chatbot.

Integrate NLIP with Langchain or Autogen, and enable tool calling with MCP or framework-specific protocols.



Inter-agent communication with NLIP

NLIP handles communication between different agents.

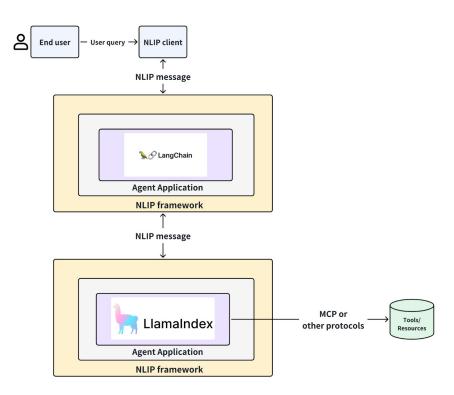


Demo



Summary

- NLIP can seamlessly integrate with agent development frameworks.
- NLIP enables inter-agent communication.



Thank you!