# Dapr in Action

## From Core Concepts to AI Agents

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# Workshop Goals

Very short intro (we promise)!

Create agent using Dapr Agents

Build custom tools for agents to use

What are LLMs?

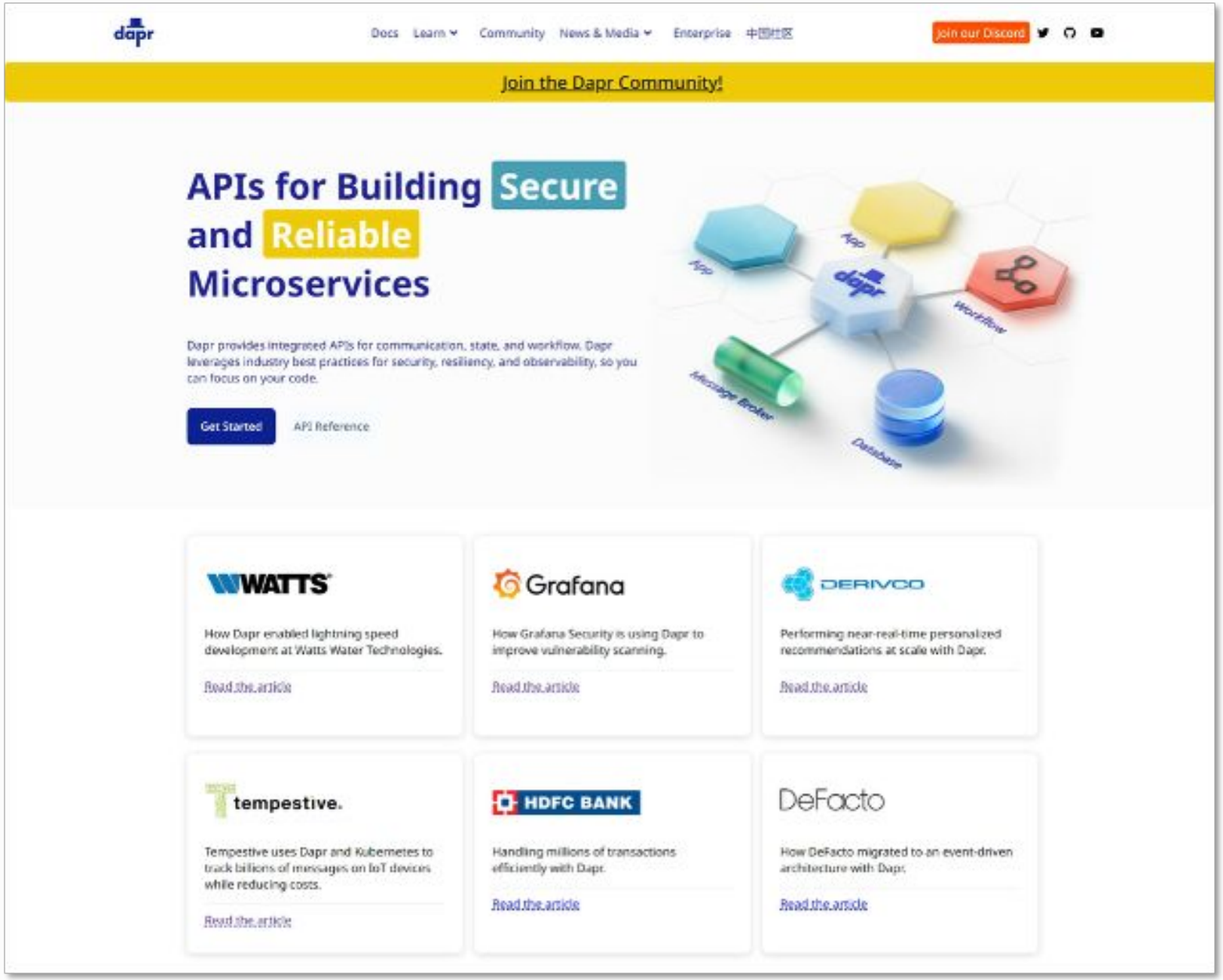
Implement the ReAct pattern (Reasoning + Action)

Create multi agent workflow

# Distributed Application Runtime

dapr.io

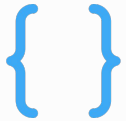
Graduated project



Speeds up application development by providing an integrated set of APIs for communication, state, and workflow.

# Dapr Goals

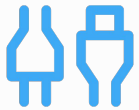
Provide an integrated set of APIs



Any language or framework

Includes best practices & standards

Platform agnostic



Extensible and pluggable

Community driven, vendor neutral

# Dapr Agents

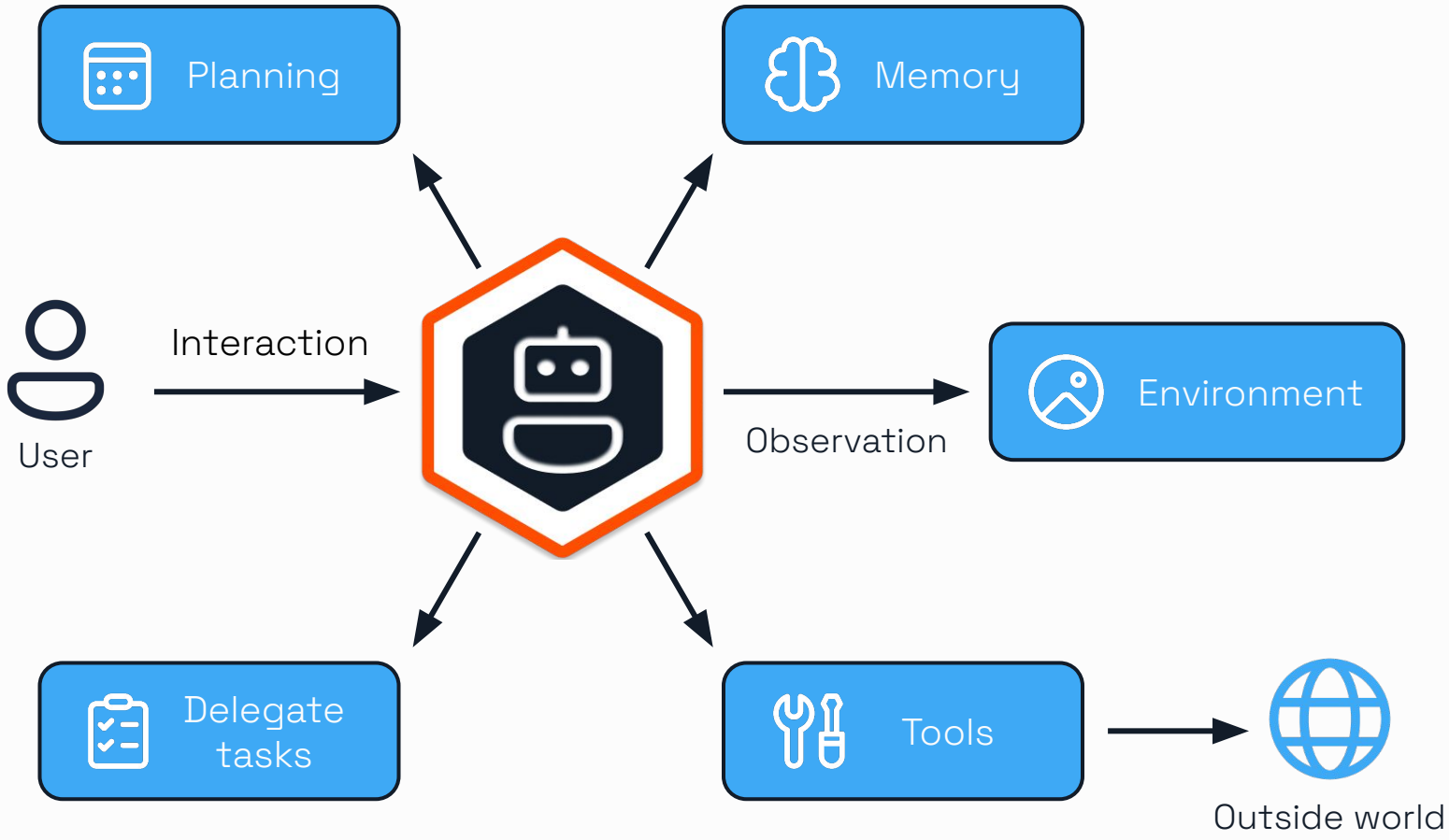
https://dapr.github.io/dapr-agents/

# Dapr Agents

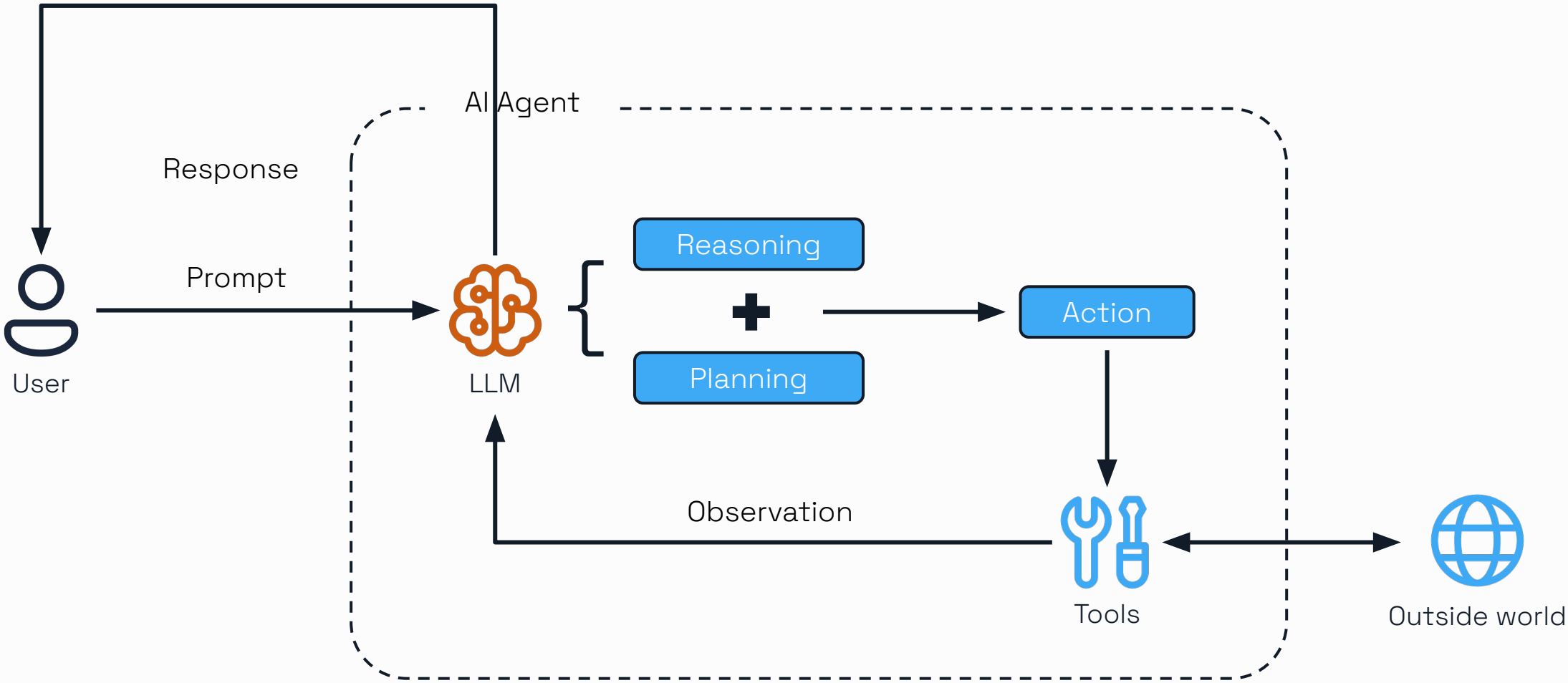
**Dapr Agents is a developer framework designed to build production-grade resilient AI agent systems that operate at scale.**

- Built on top of Dapr
- Kubernetes-Native
- Data-Driven Agents
- Multi-Agent Systems

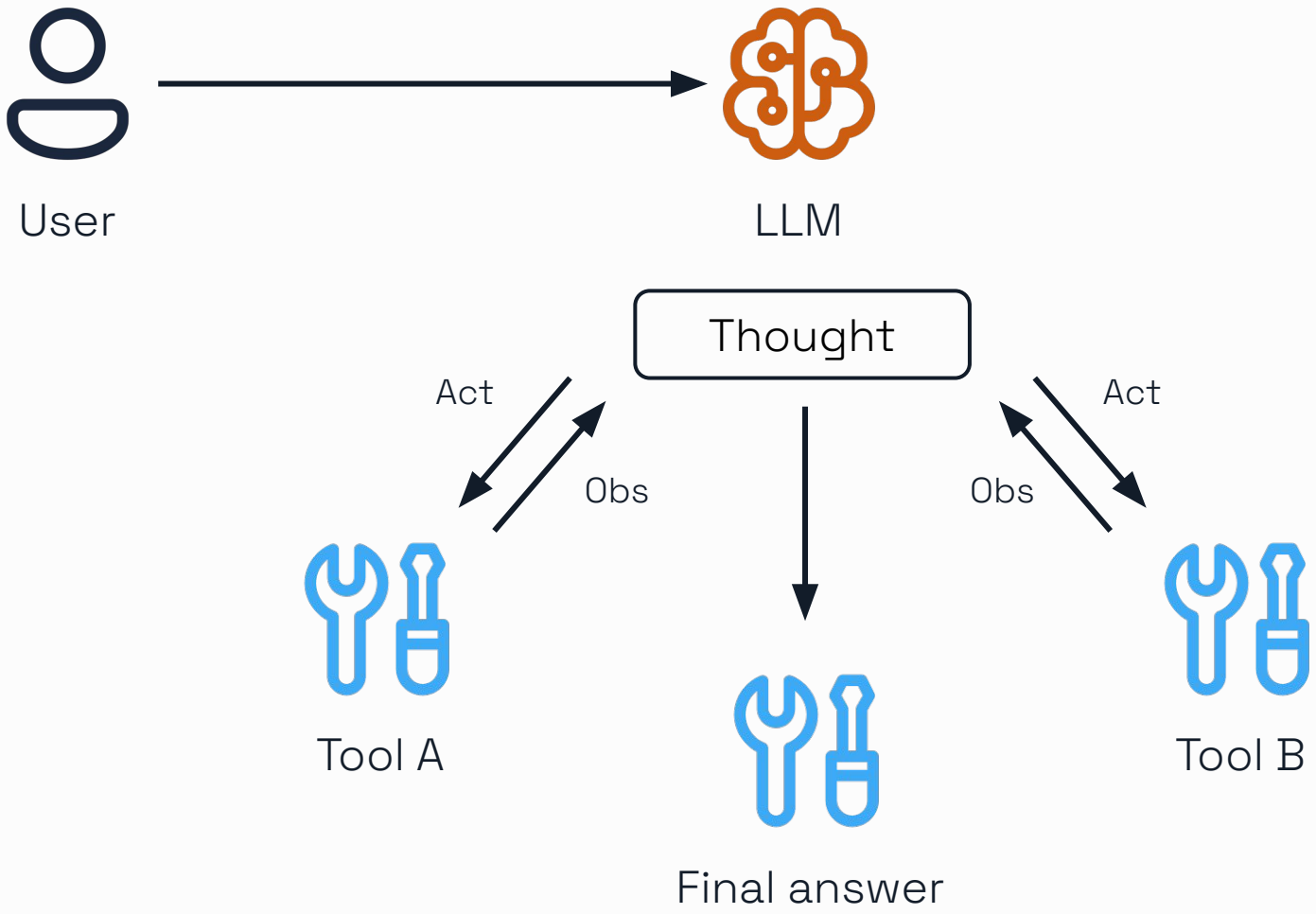
# Agent Interactions



# Dapr Agents


AI Agent
Response
Prompt
User
LLM
Reasoning
Planning
Action
Observation
Tools
Outside world

# ReAct flow



# Workshop Overview

https://github.com/pyladiesams/dapr-in-action-may2025

# The Use Case

**Too busy to track news and market trends?**

**Let's create a productivity bot!**

**Let's build an AI tool that:**

Automatically collects and summarizes daily news.

Provides clear explanations and insights.

Checks real-time stock prices for specific companies.

Analyzes sentiment behind the news to help you make informed decision

# Our Stack

**Dapr Agents**

- Framework to build AI Agent Systems

**HuggingFace API**

- API access to various LLMs

**Tools**

- CurrentsApi (Daily News)
- Yahoo Stock Market API

# Let’s get started

**Option 1: Jupyter Lab**

- Clone this git repo
- Set the API keys and install the dependencies based on the instruction in the README
- Open “workshop/introductory_workshop/1_ask_llm.ipynb”
- You are ready to start!

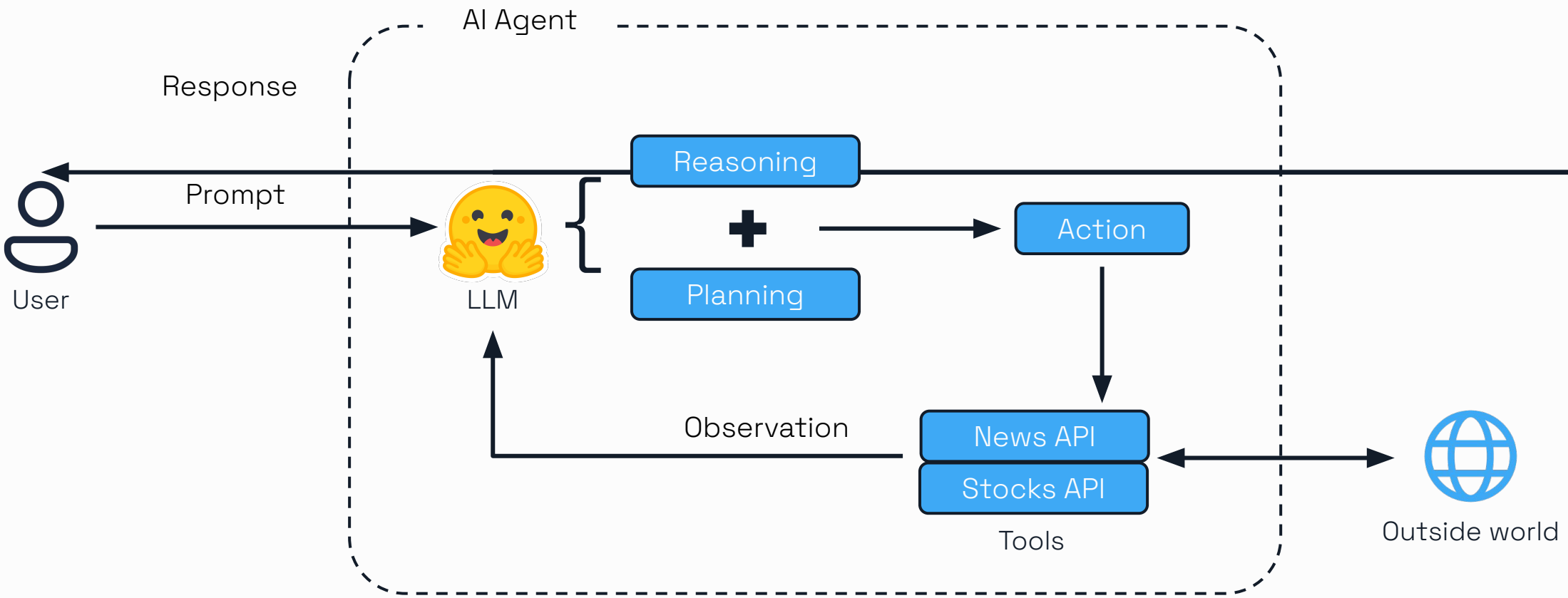
**Option 2: Google Colab**

- In Google Colab > Open notebook > Github > paste the repository link > click on “workshop/introductory_workshop/1_ask_llm.ipynb”
- Set the API keys and install the dependencies based on the instruction in the notebook.
- You are ready to start!

Github repo

Slides

# Productivity Bot



# Dapr Resources

dapr.io

bit.ly/dapr-youtube

bit.ly/dapr-quickstarts

bit.ly/dapr-discord

@daprdev

@daprdev.bsky.social

dapr.io

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