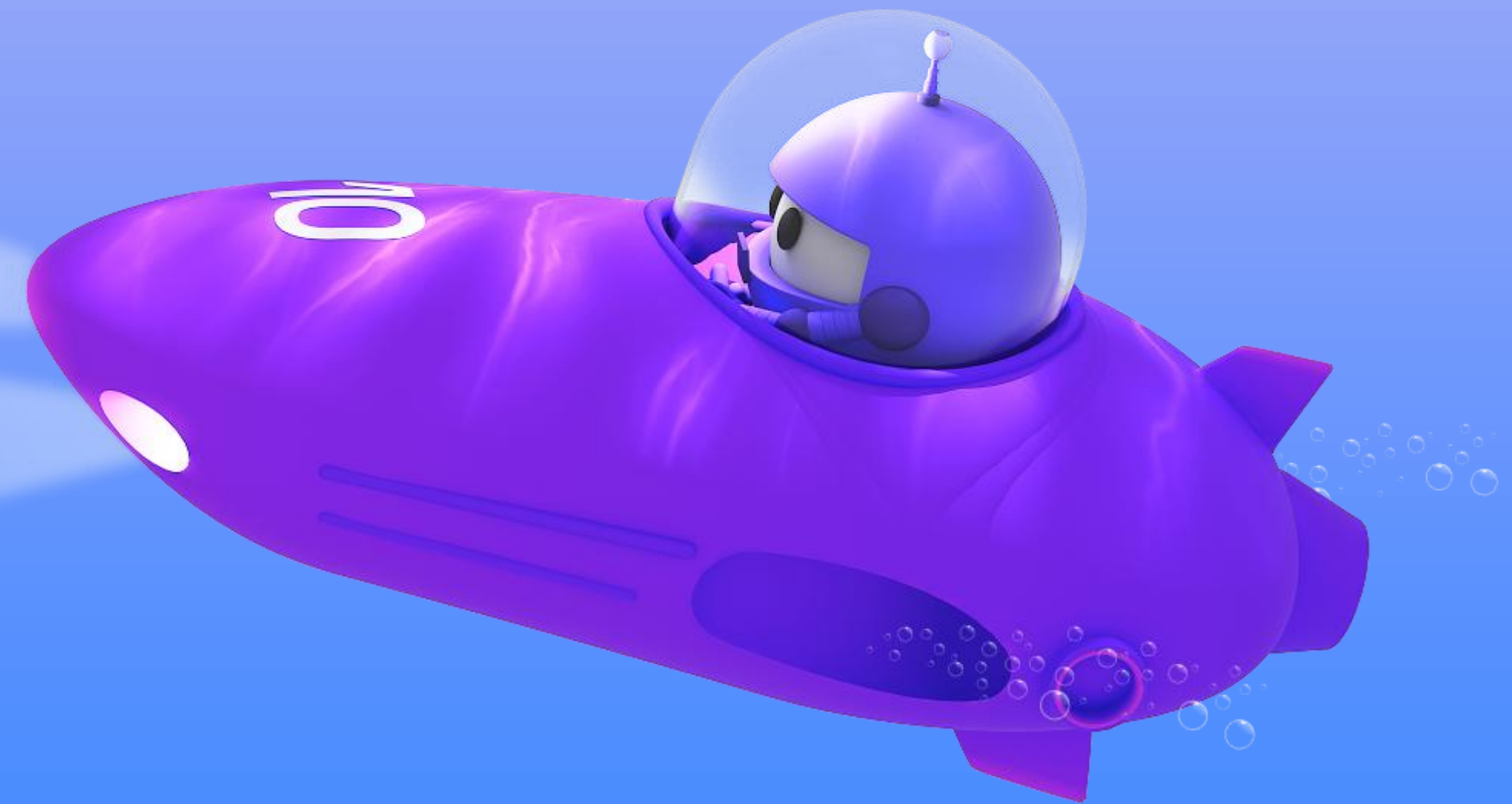


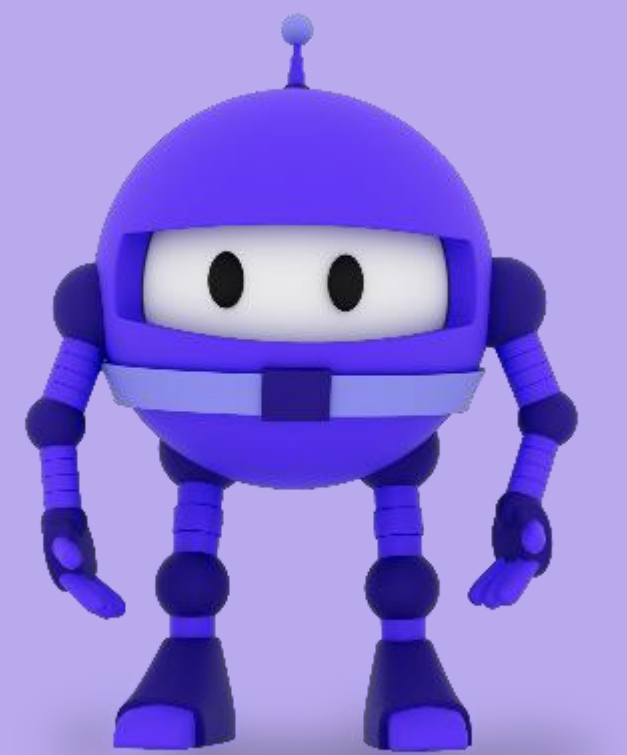
Build your own **AI Agents** using the latest **.NET technologies**



Thien Nguyen



01 Key concepts

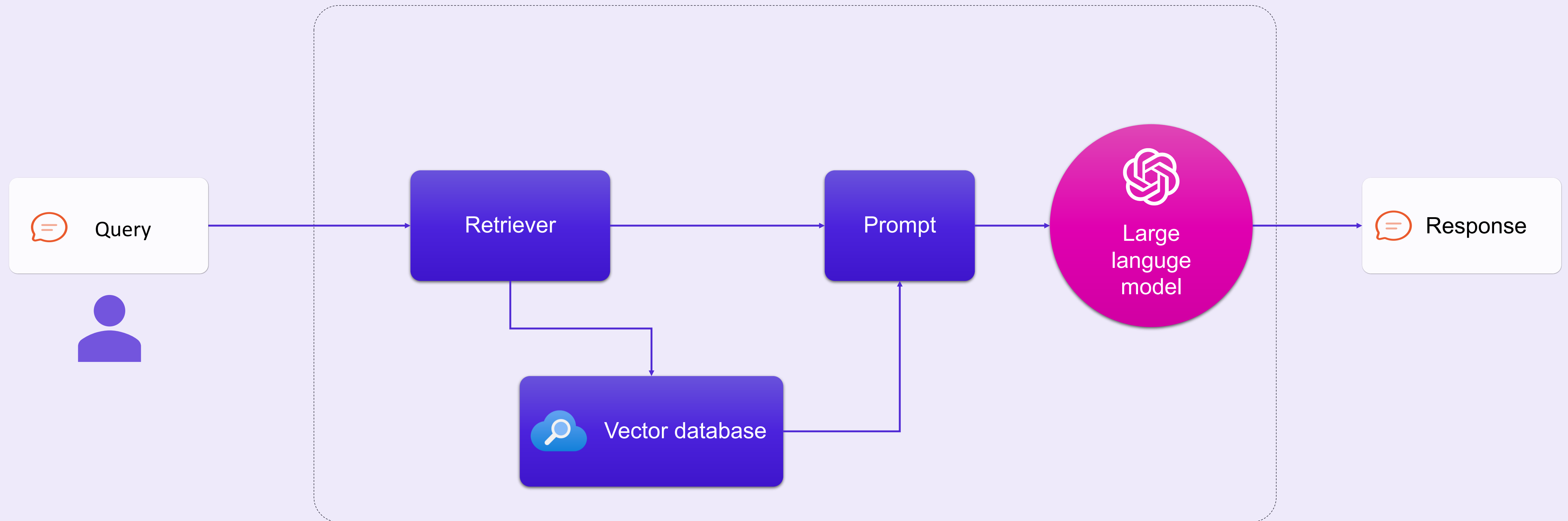


What is an agent?



Retrieval Augmented Generation (RAG)

RAG is the popular way to **connect your enterprise documents** to GenAI applications



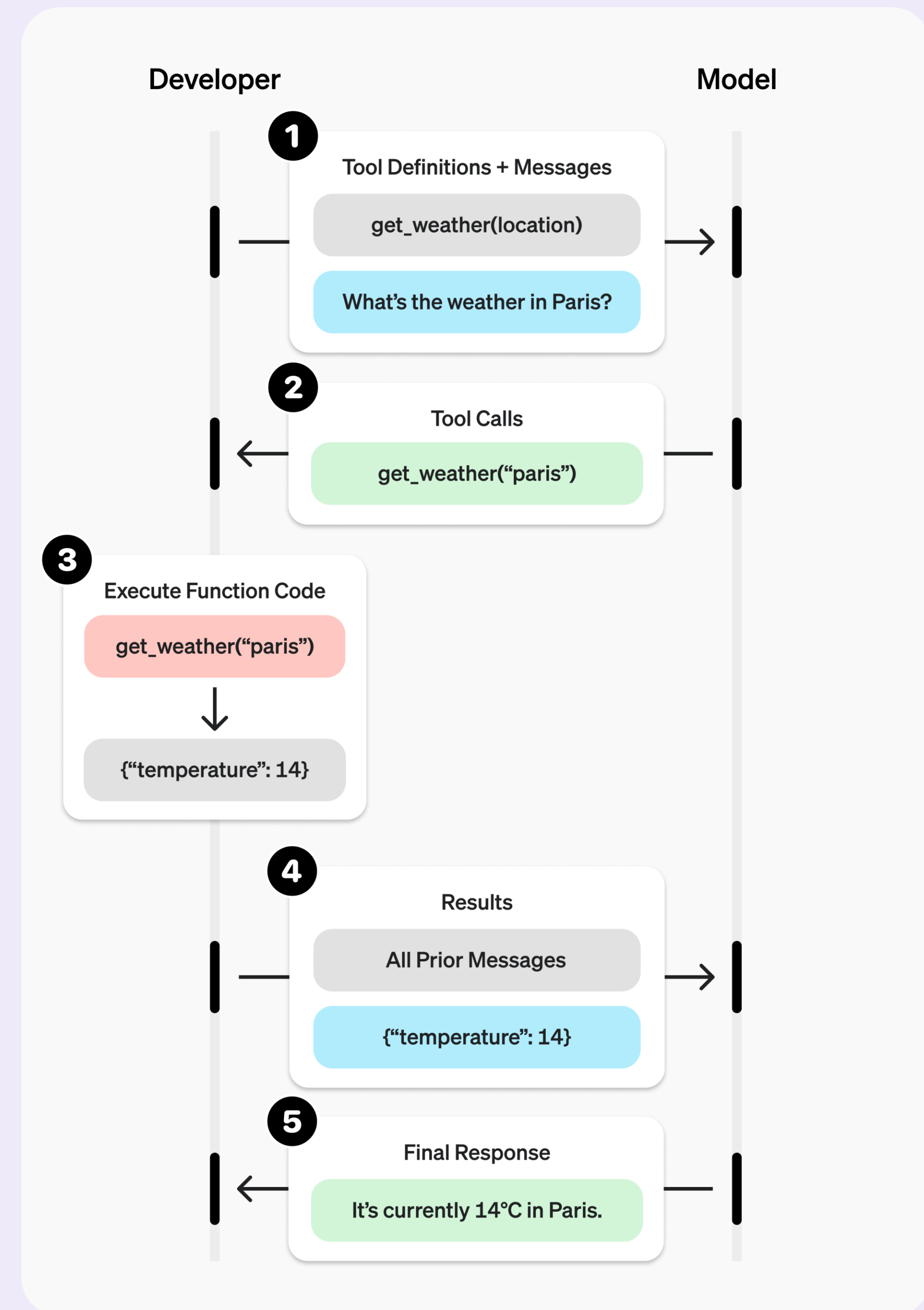
Vector embedding



Tool calling

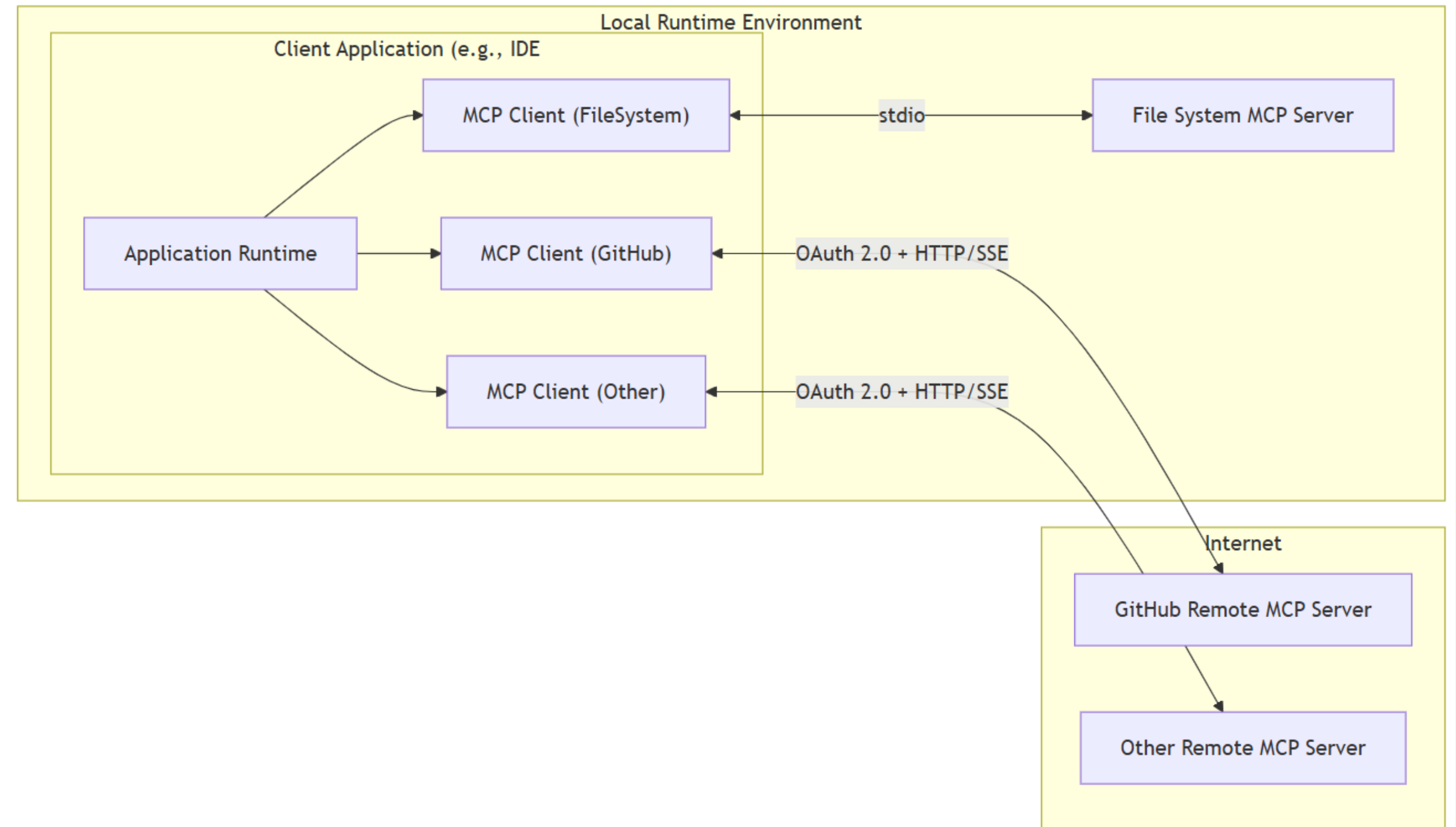
Give models access to new functionality and data they can use to follow instructions and respond to prompts

1. Make a request to the model with tools it could call
2. Receive a tool call from the model
3. Execute code on the application side with input from the tool call
4. Make a second request to the model with the tool output
5. Receive a final response from the model (or more tool calls)



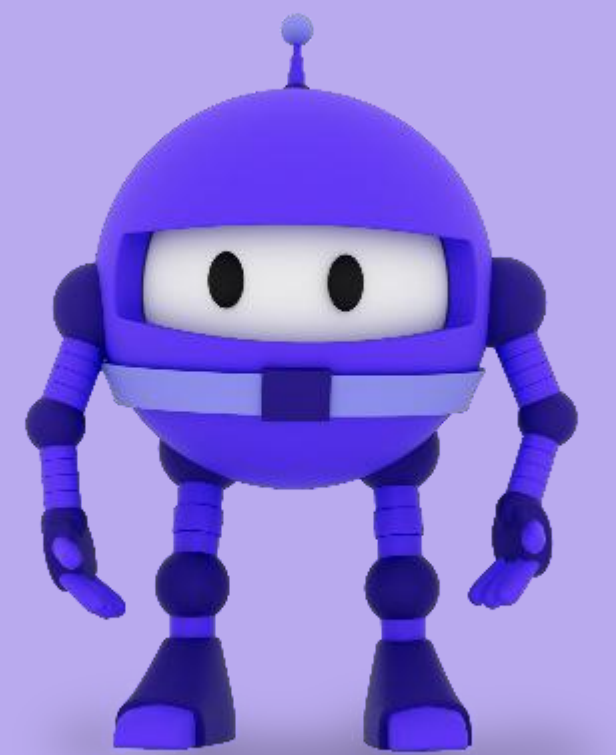
Model Context Protocol (MCP)

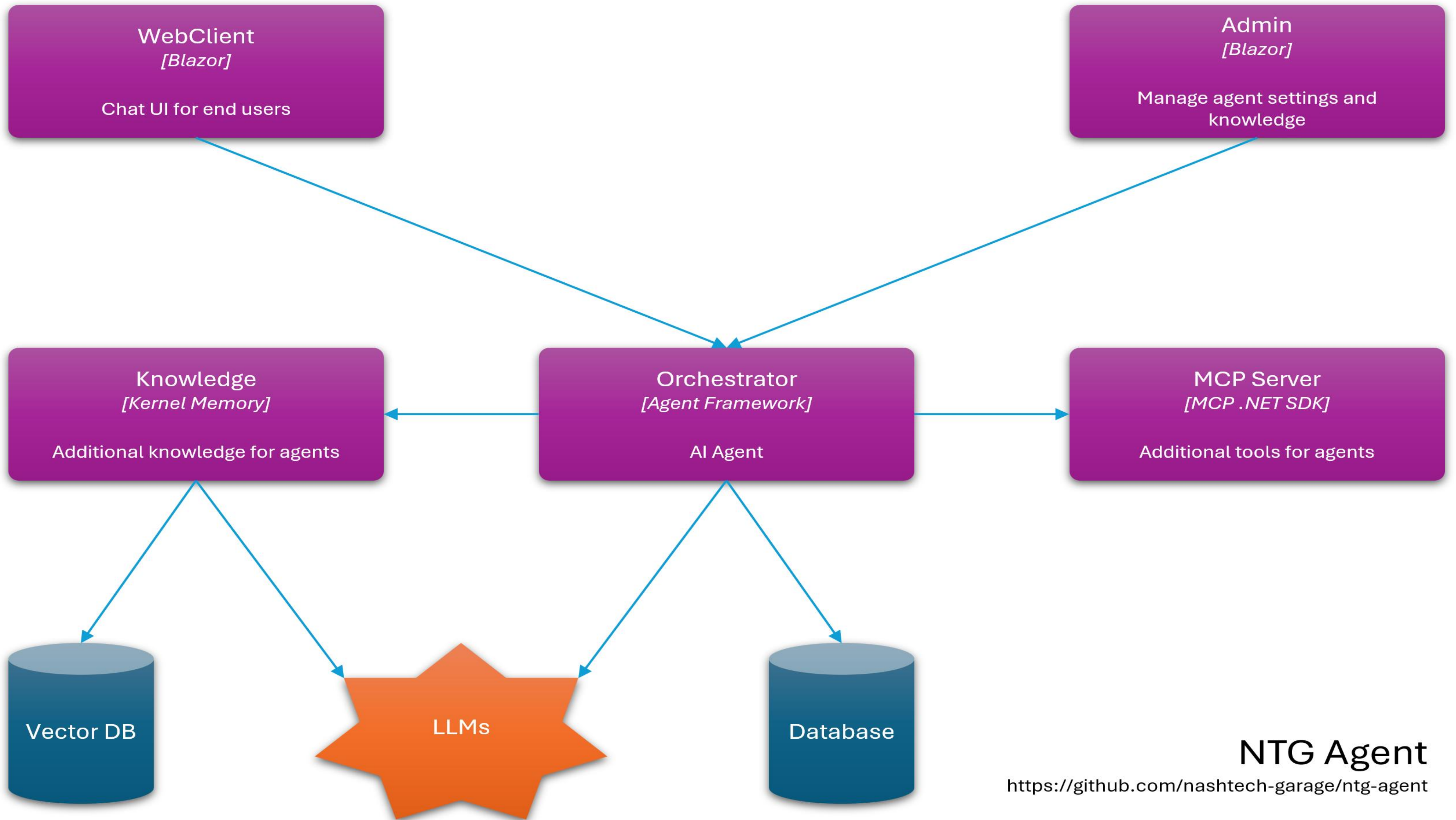
- **Client Application:** The user-facing application you are building. It instantiates one or more MCP clients and orchestrates tool calls.
- **MCP Clients:** Protocol clients that maintain 1:1 connection with server
- **MCP Servers:** Lightweight programs that each expose specific capabilities through the standardized Model Context Protocol
- **MCP Server:** A service that provides access to a specific set of tools.
 - **Local MCP Server:** An MCP Server running locally, side-by-side with the Application.
 - **Remote MCP Server:** An MCP Server running remotely, accessed via the internet. Most Remote MCP Servers require authentication via OAuth.



02 NTG Agent

<https://github.com/nashtech-garage/ntg-agent>





NTG Agent

<https://github.com/nashtech-garage/ntg-agent>

Agent Management

NTG.Agent.Admin

Agent Management

Users Management

admin@ntgagent.com

Logout

Agents > Default Agent

Default Agent

Active

Actions

Agent Settings

Knowledge Base 2

Tags Management 1

Knowledge Base Management

All Folders

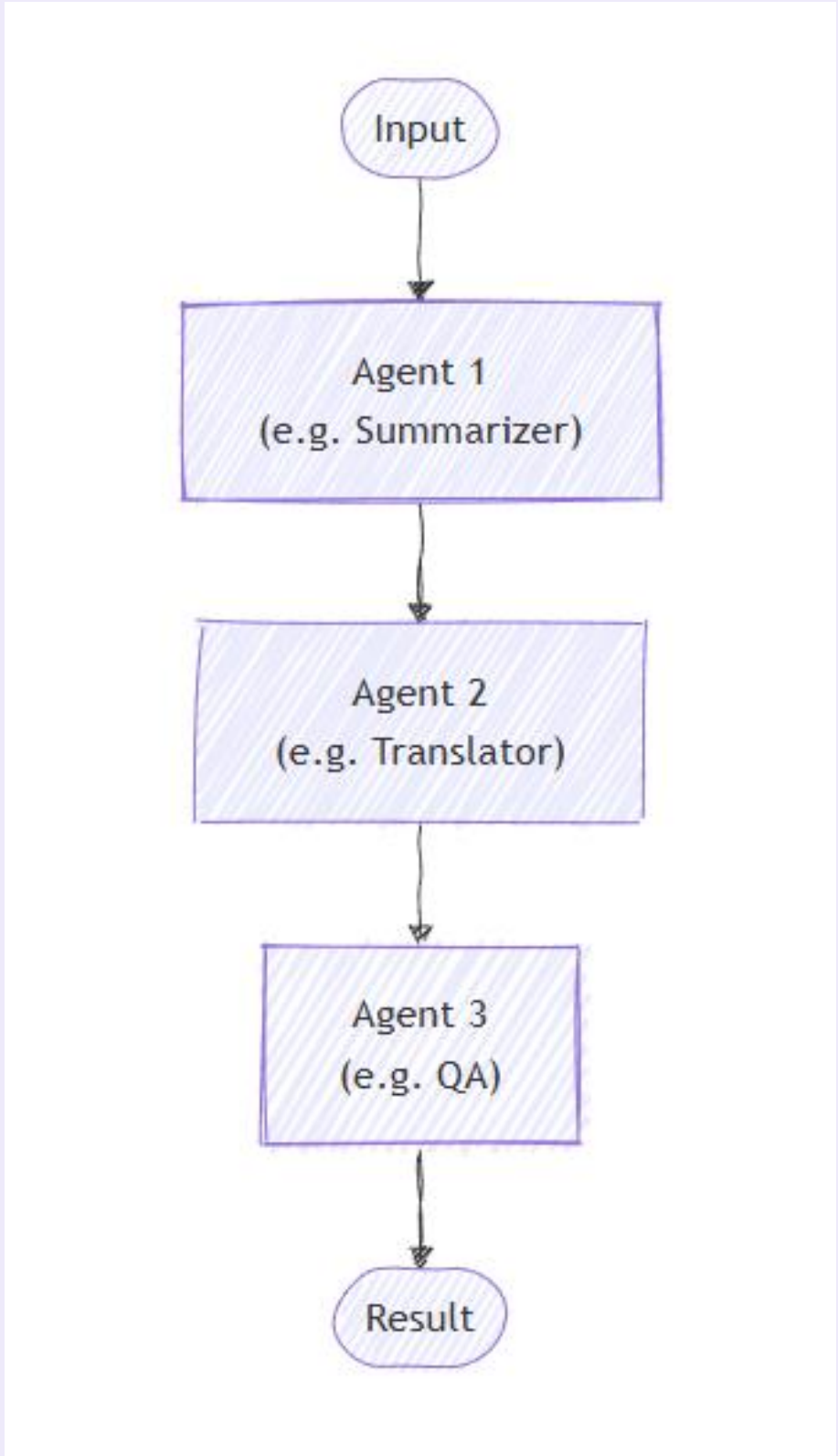
Default Folder

Manage documents and knowledge for this folder

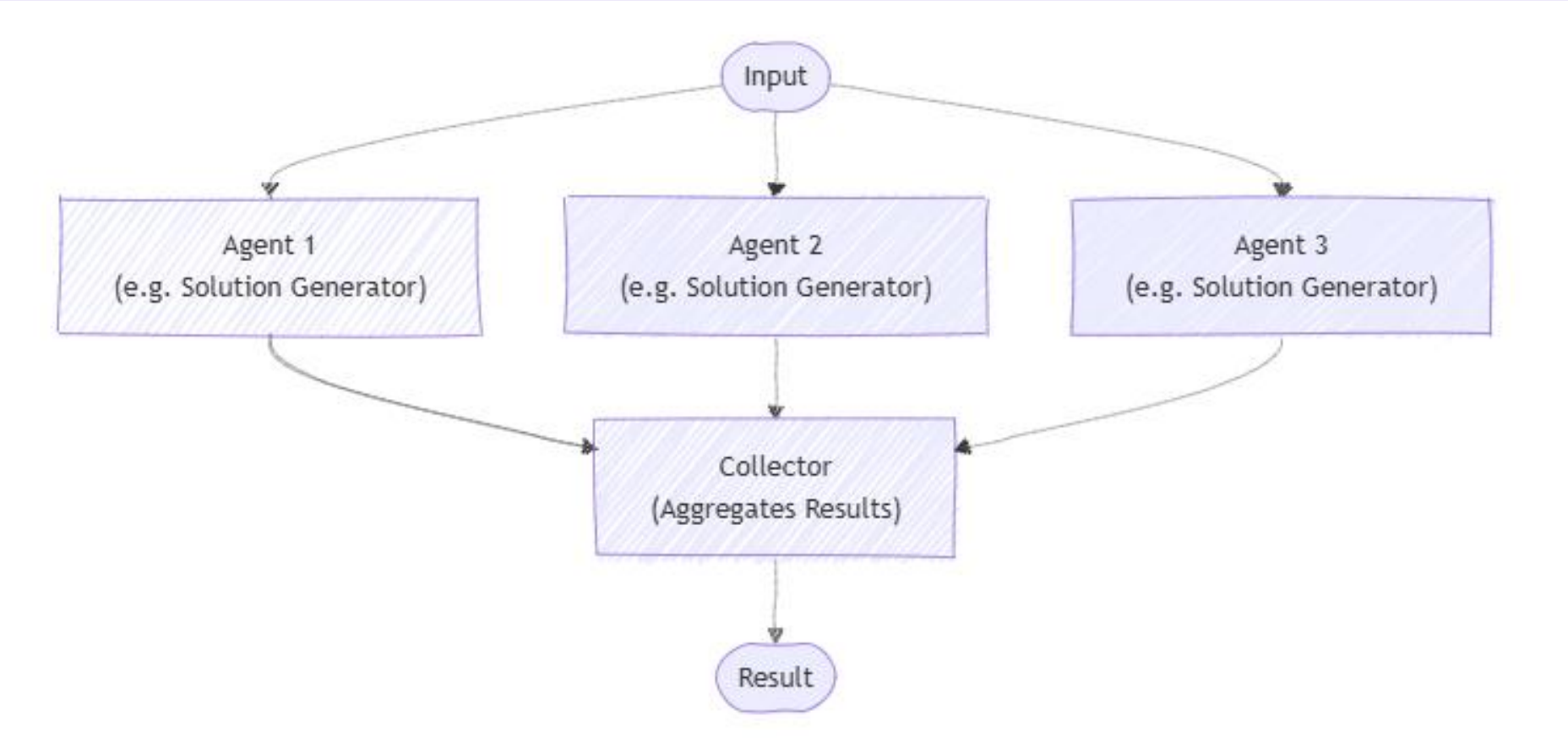
Add Knowledge

Document Name	Type	Tags	Upload Date	Size	Actions
KILALA_Travel_book_20181225s_vn.pdf	PDF	Public	Sep 15, 2025	--	<div>DownloadViewDelete</div>
2020_Taiwan_Tourism_Guide_Book_(V).pdf	PDF	Public	Sep 15, 2025	--	<div>DownloadViewDelete</div>

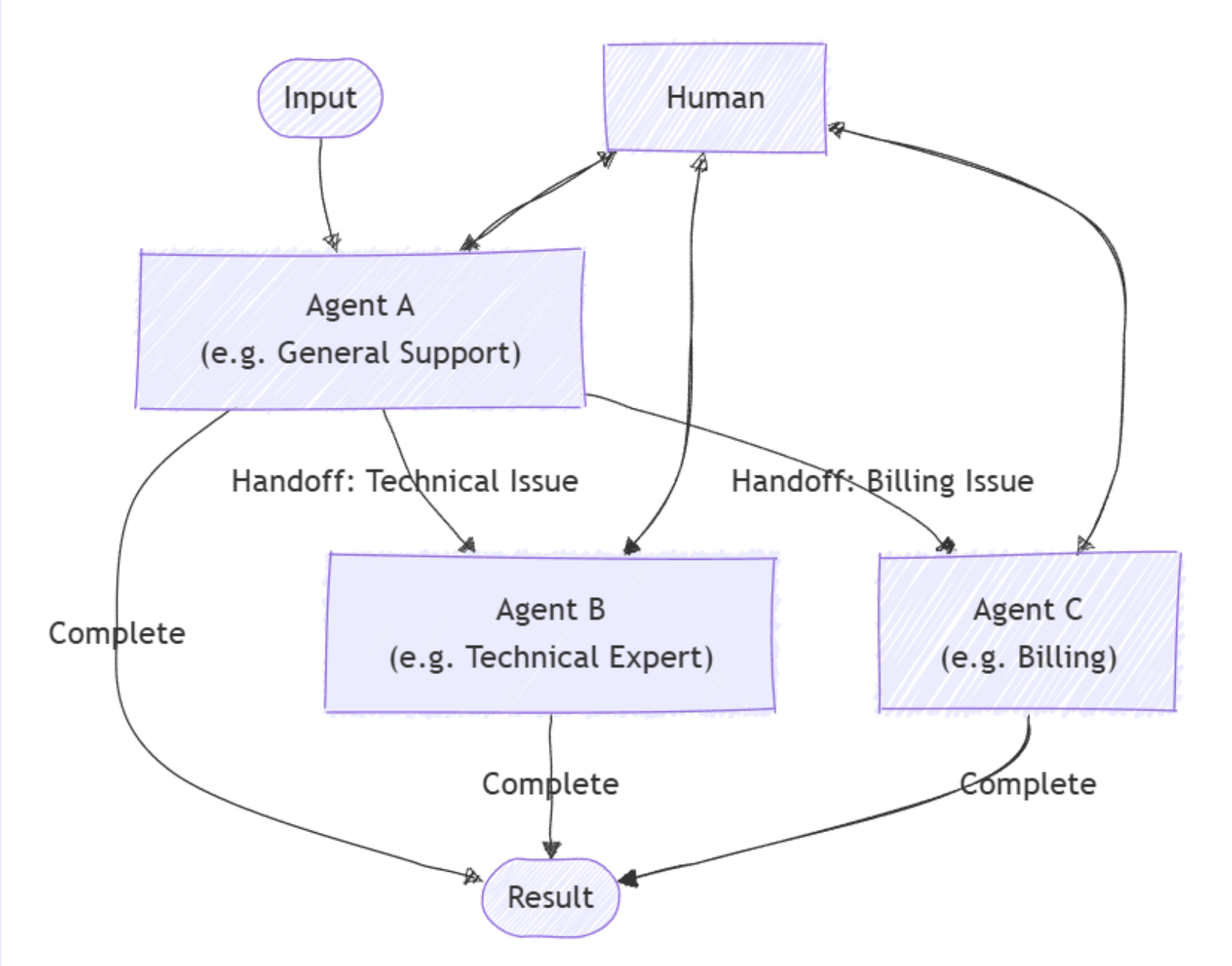
Workflow



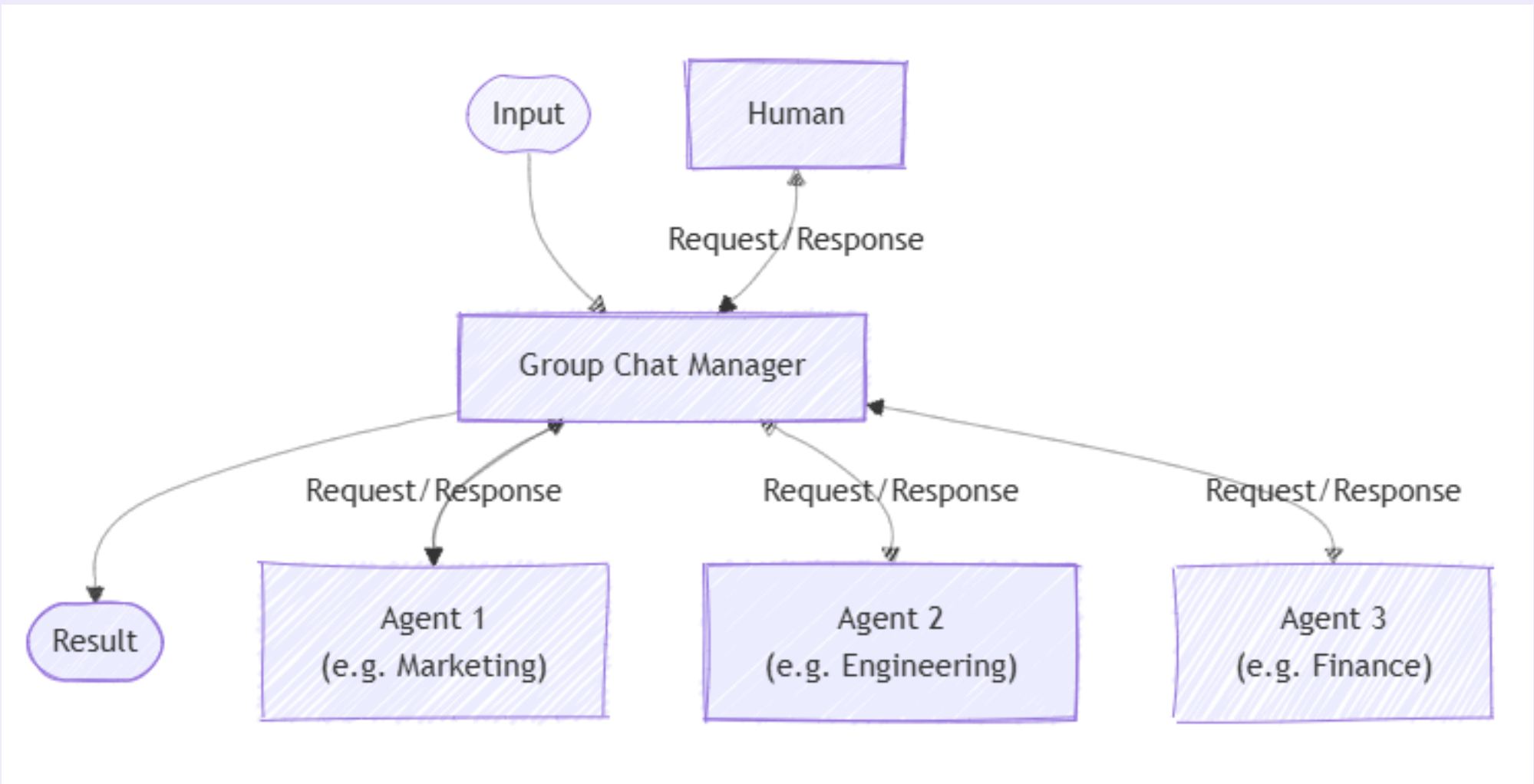
Sequential



Concurrent



Handoff



Group Chat

Thank you

DEV<code>afe

CONNECT AND SHARE

