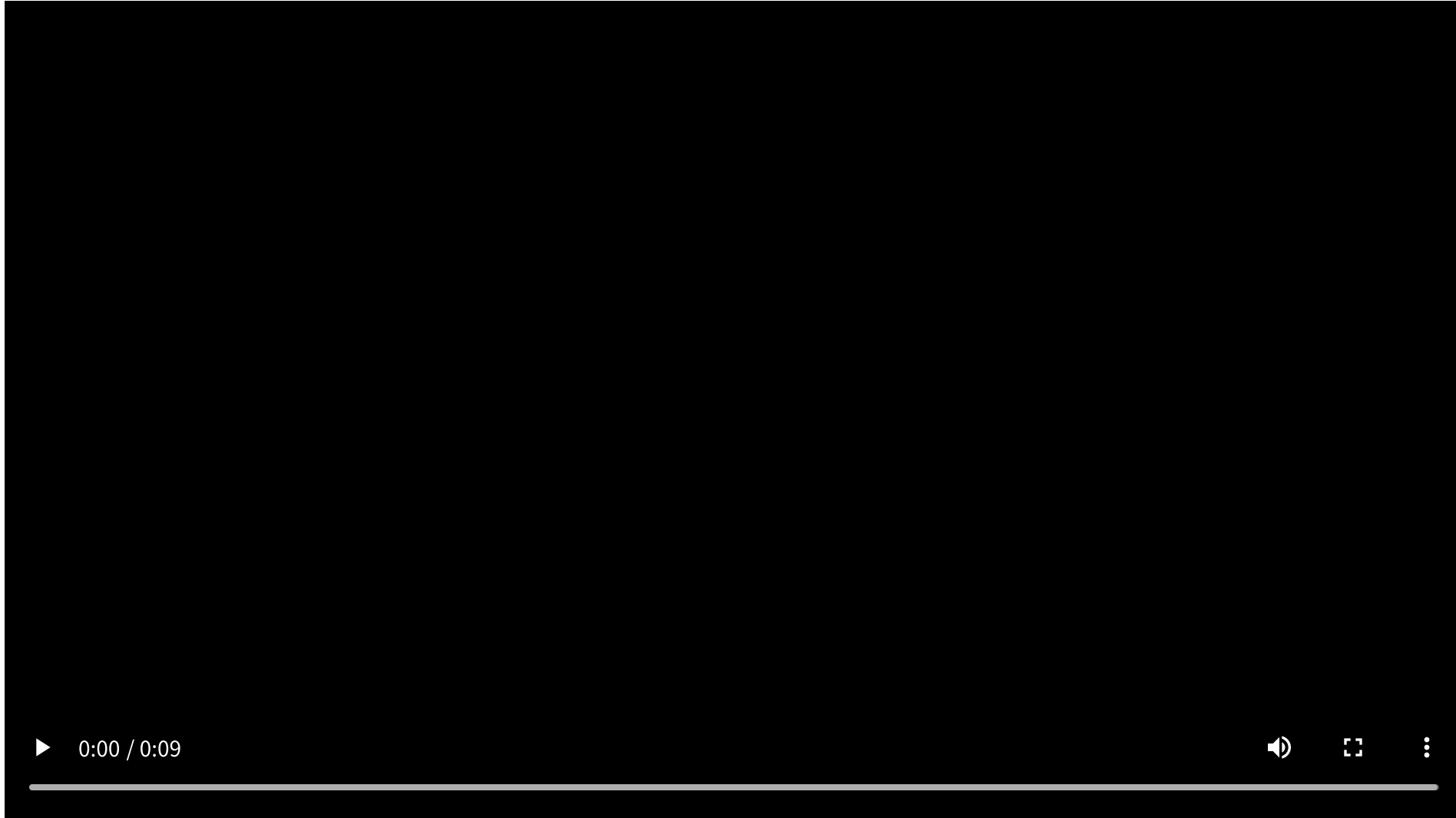


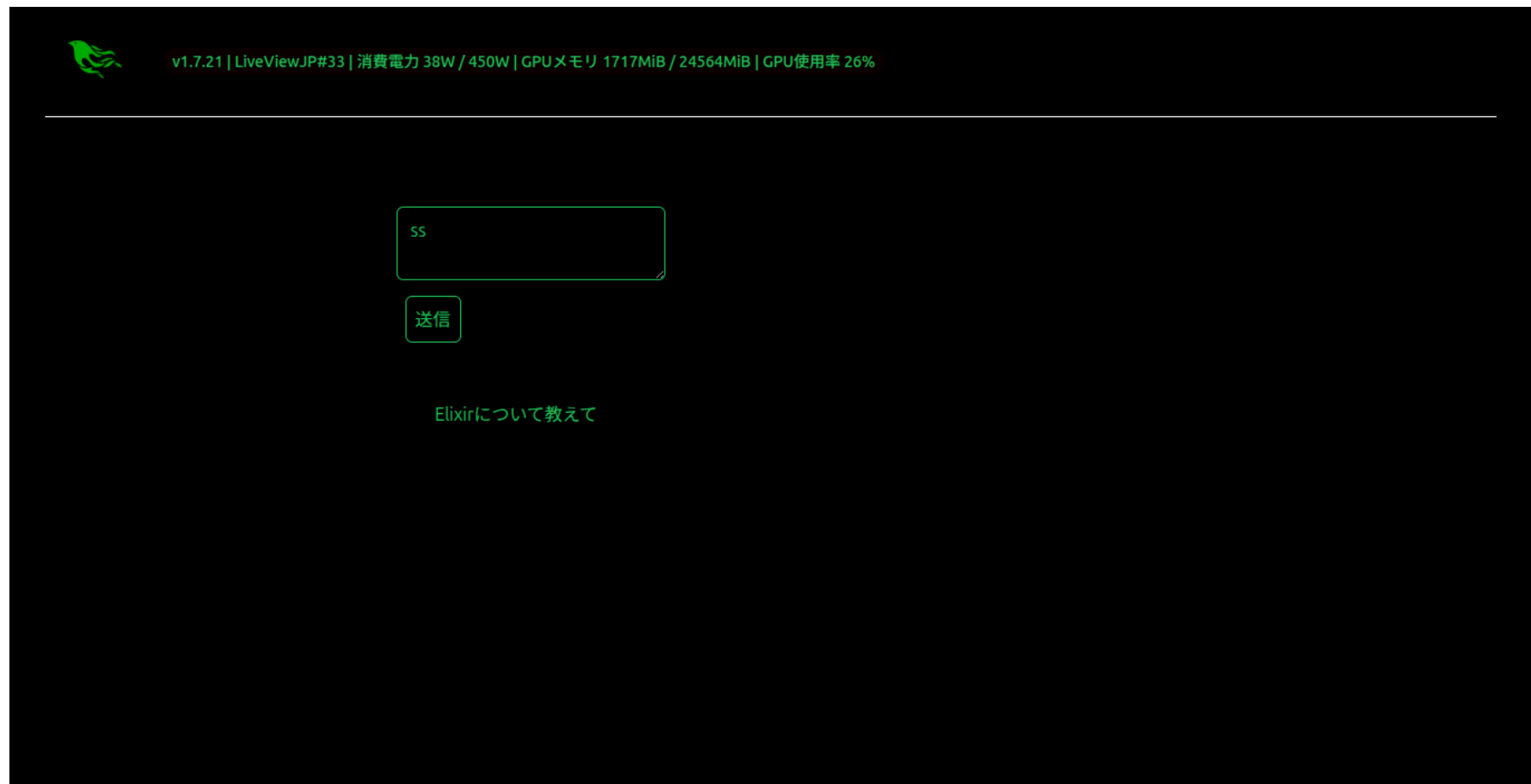
ElixirでローカルLLM＋Difyを動かし、MCPが混ざると ...

実際に動かしてみる🐱



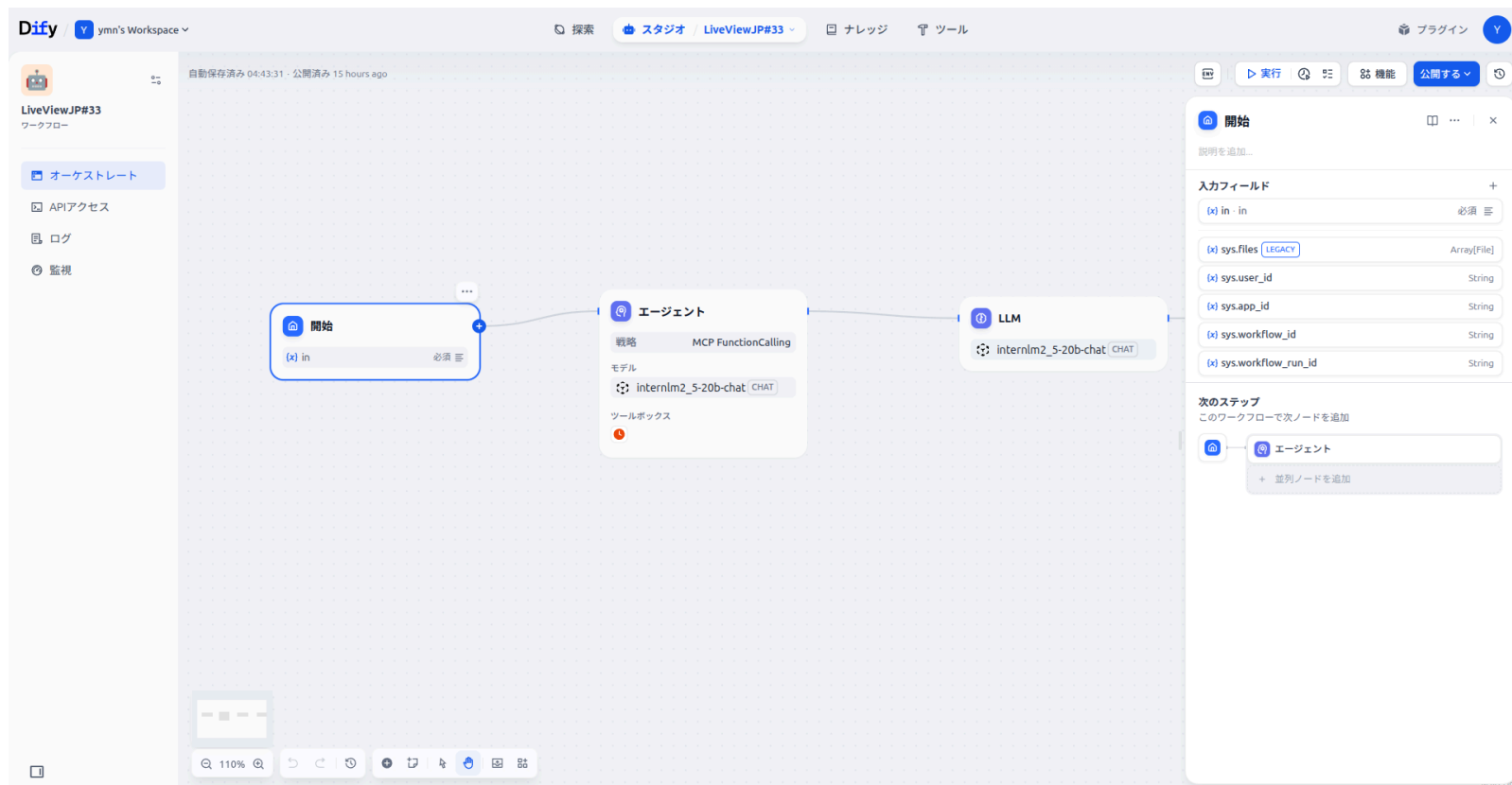
LiveView

- 人間とのインターフェース



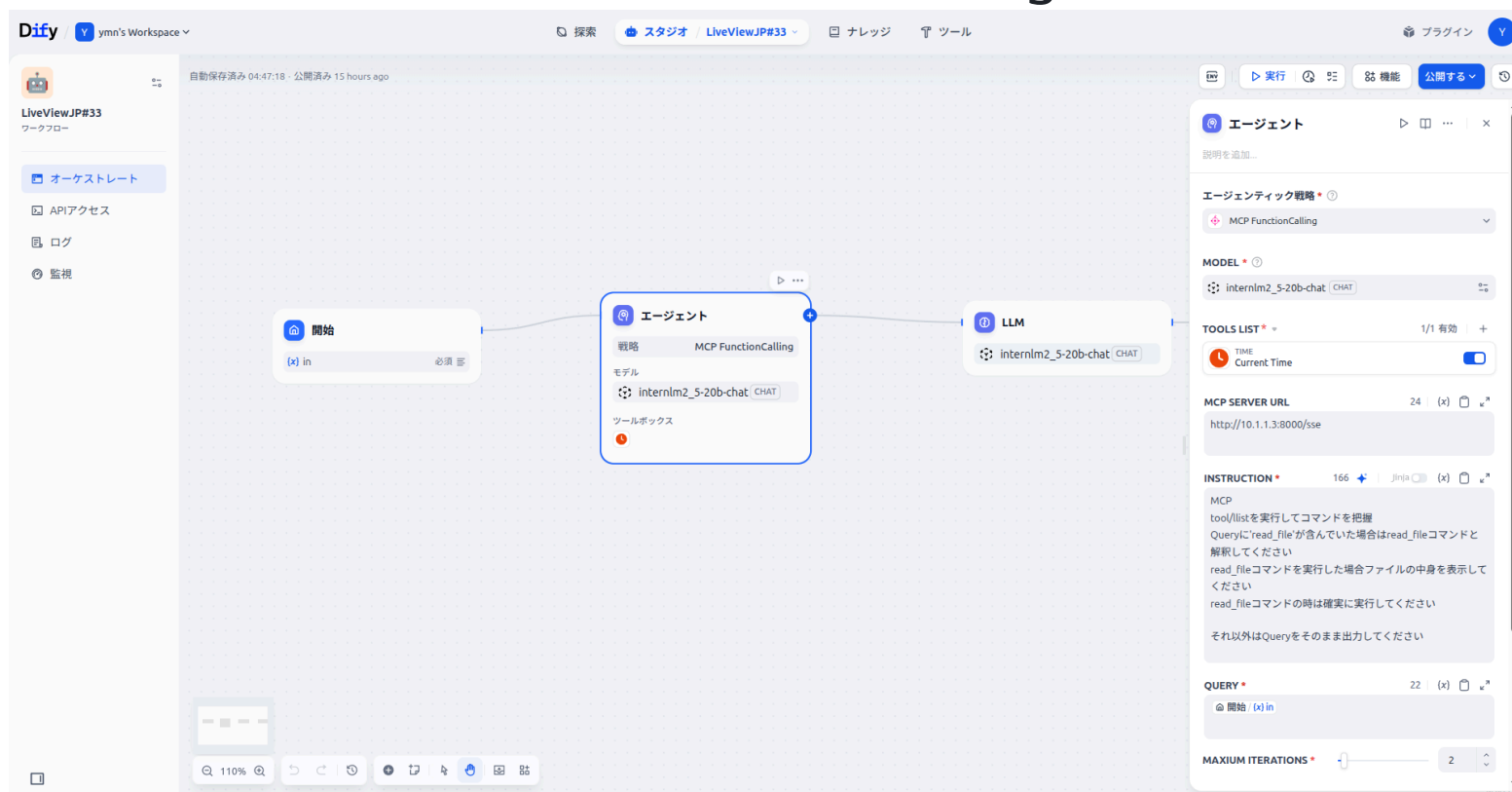
Dify

- LiveViewとのインターフェース
- 開始はLiveViewから文章を受け取ります



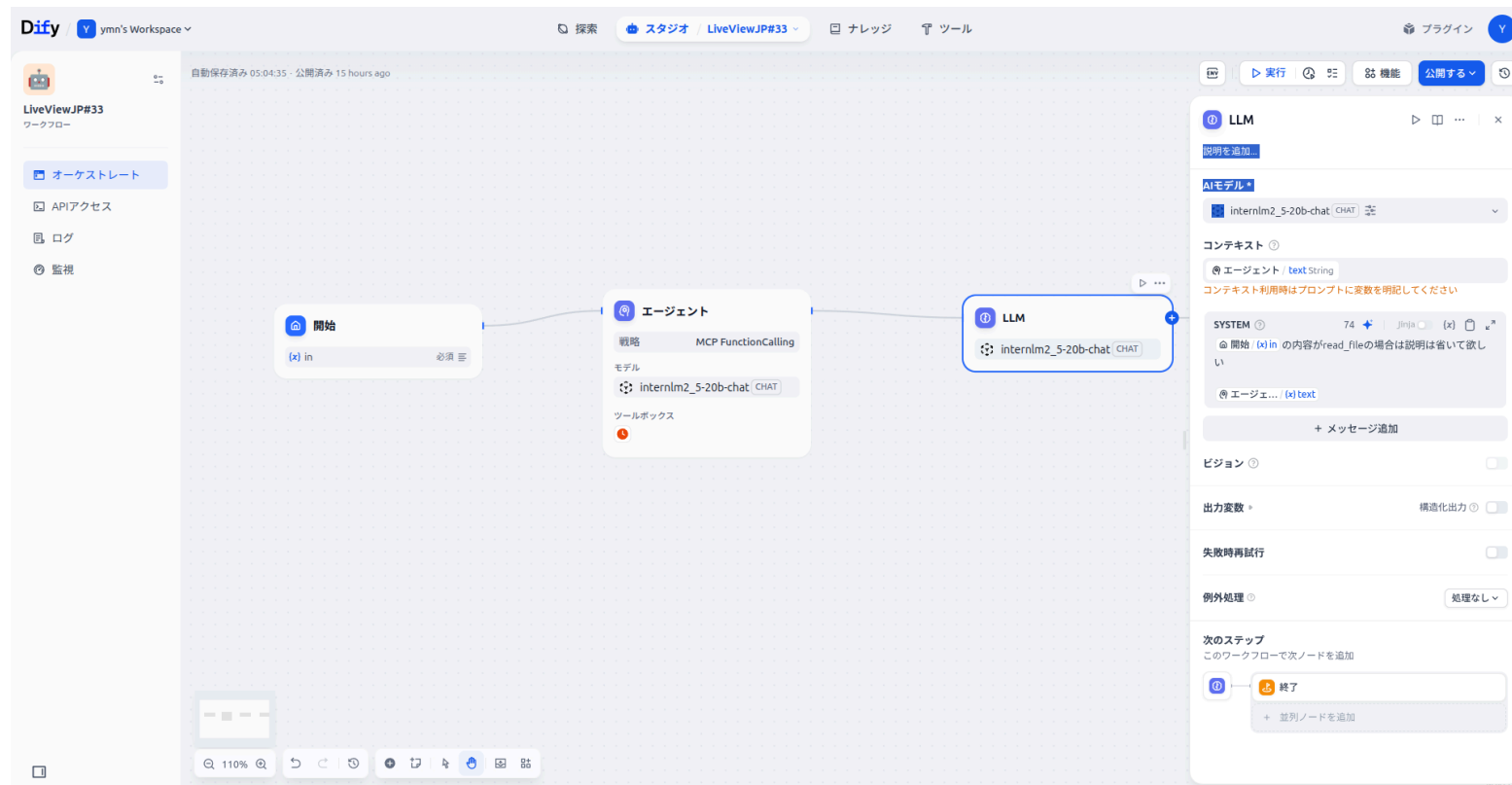
Dify

- MCPサーバーとのインターフェース
- クライアントとしてMCP FunctionCallingを使う



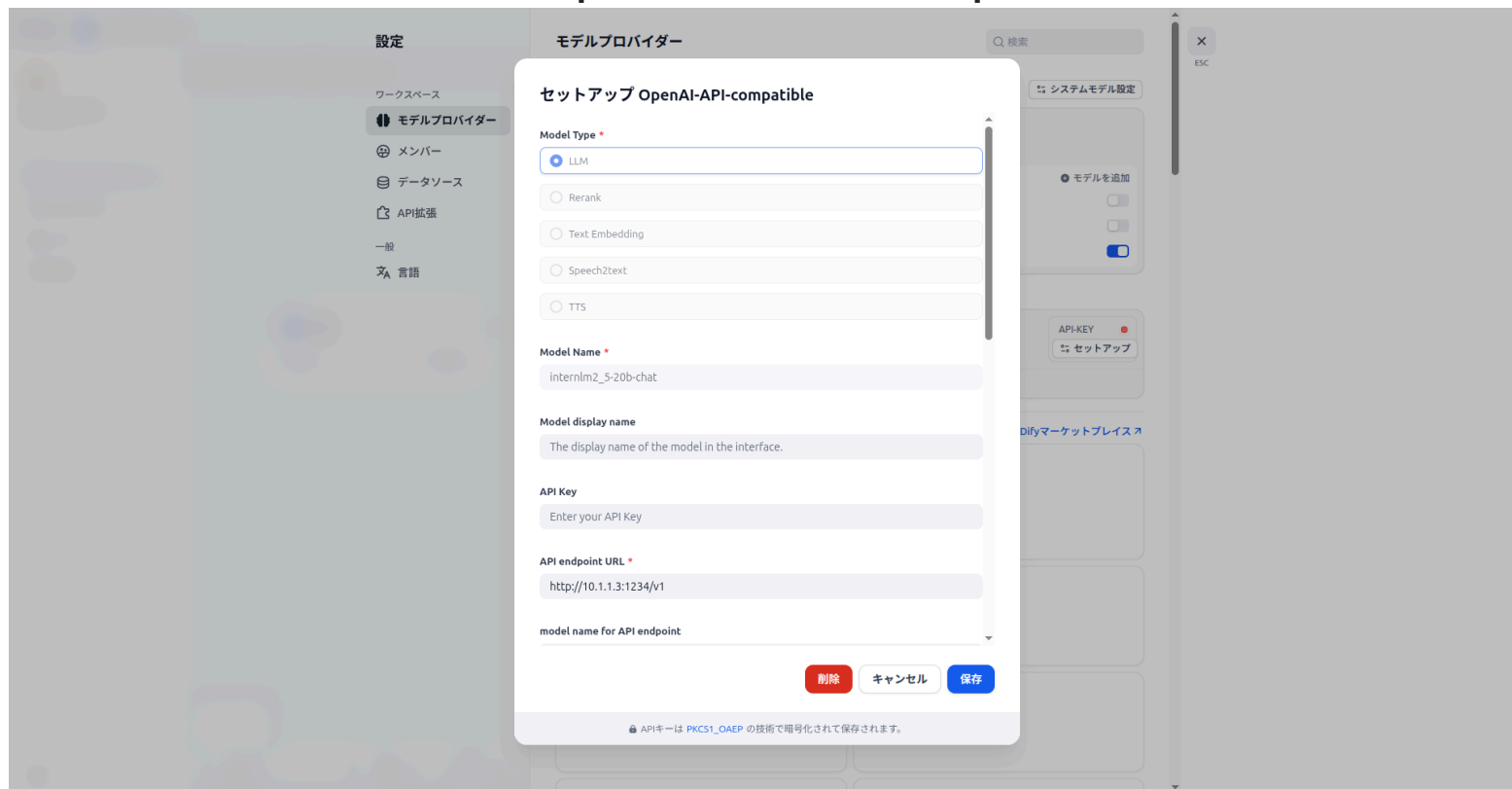
Dify

- LLMその2



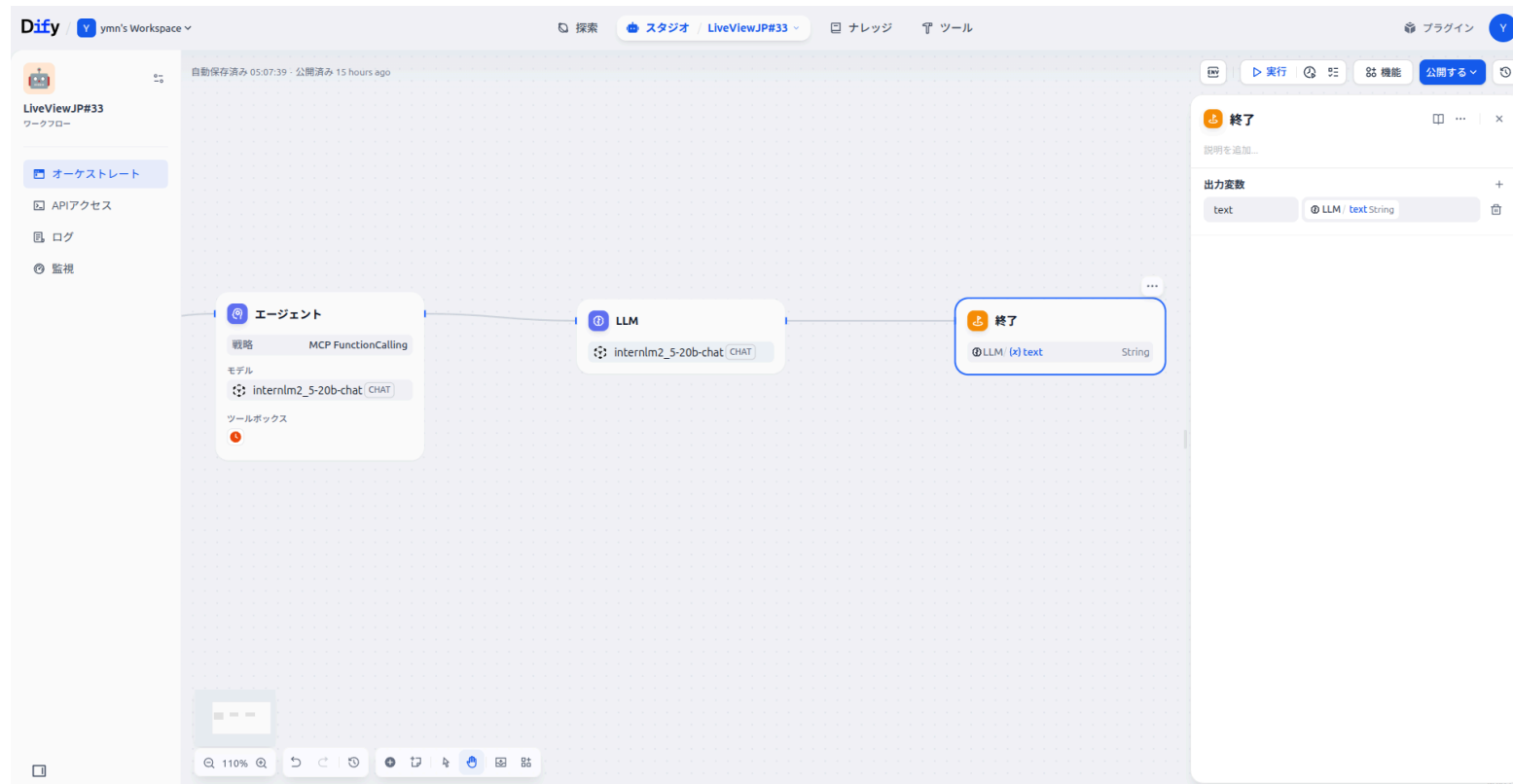
Dify

- LM-Studioとインターフェース
- モデルプロバイダー OpenAI-API-compatible



Dify

- 終了はLiveViewから文章を渡します



MCPサーバー

- MCPサーバー (server-filesystem)
 - MCPクライアントの指示の元ファイル操作をする
- MCPサーバーのプロキシ(supergateway)
 - SDTIO(MCPサーバ) <=> Dify(SSE)に変換

server-filesystemをsupergateway経由で起動

```
$ npx -y supergateway --stdio "npx -y @modelcontextprotocol/server-filesystem ~/local/mcp/tmp"
```

MCPサーバーの検証

npx @modelcontextprotocol/inspector

MCP Inspector v0.13.0

Transport Type

SSE

URL

http://localhost:8000/sse

> Authentication

Server EntryServers File

> Configuration

ReconnectDisconnect

Connected

ResourcesPromptsToolsPingSamplingRootsAuth

Tools

List Tools

Clear

read_file

Read the complete contents of a file from the file system. Handles various text encodings and provides detailed error messages if the file cannot be read. Use this tool when you need to examine the contents of a single file. Only works within allowed directories.

read_multiple_files

Read the contents of multiple files simultaneously. This is more efficient than reading files one by one when you need to analyze or compare multiple files. Each file's content is returned with its path as a reference. Failed reads for individual files won't stop the entire operation. Only works within allowed directories.

write_file

Create a new file or completely overwrite an existing file with new content. Use with caution as it will overwrite existing files without warning. Handles text content with proper encoding. Only works within allowed directories.

edit_file

Make line-based edits to a text file. Each edit replaces exact line sequences with new content. Returns a git-style diff showing the changes made. Only works within allowed directories.

History

3. tools/call

2. tools/list

1. initialize

System

🔍🏠🔧📄

read_file

Read the complete contents of a file from the file system. Handles various text encodings and provides detailed error messages if the file cannot be read. Use this tool when you need to examine the contents of a single file. Only works within allowed directories.

path

~/local/mcp/tmp/test.txt

Run Tool

Tool Result: Success

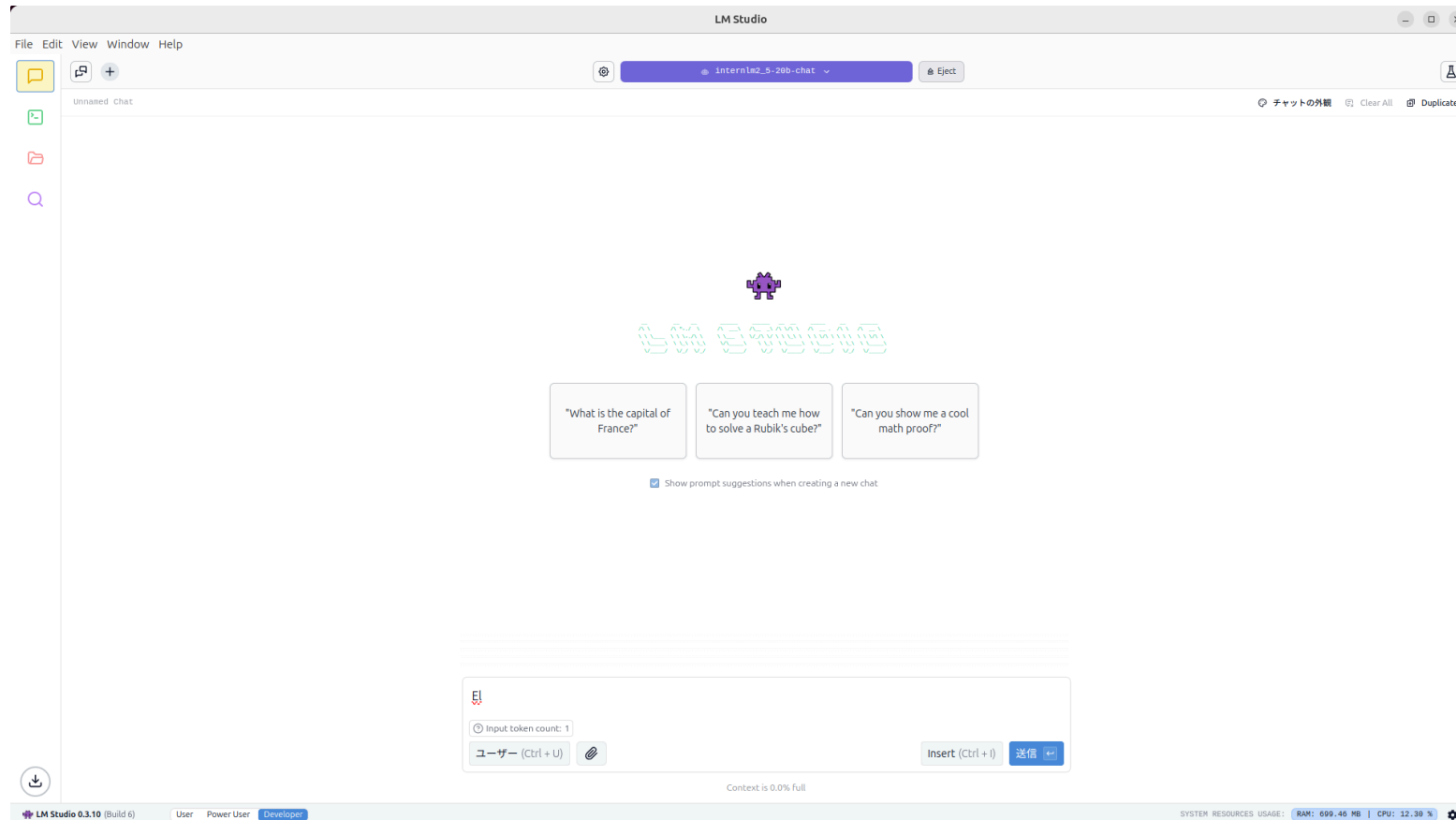
"このファイルはテストファイルとら
これは、PCエンジン エイチ・イー・システムの CD-ROMディスクです。2曲目に、コンピューター用データが入っていますので、再生しないでください"

Server Notifications

No notifications yet

LM-Studio

- LLM（Large Language Models）を動かす本体
- モデル internlm2_5-20b-chat



LM-Studio

- ランタイム CUDA llama.cpp (Linux)
 - Vulkan llama.cpp (Linux)でも可能

