AI-Powered Idea and Video Generation

(N8N + GEMINI + LANGCHAIN + SISIF API)

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WHY THIS PROJECT?

- Short videos dominate platforms like YouTube Shorts and Instagram Reels.

- Creators spend hours brainstorming ideas, writing scripts, and editing videos.

- There's a growing need for automated content creation pipelines that generate ideas and videos intelligently.
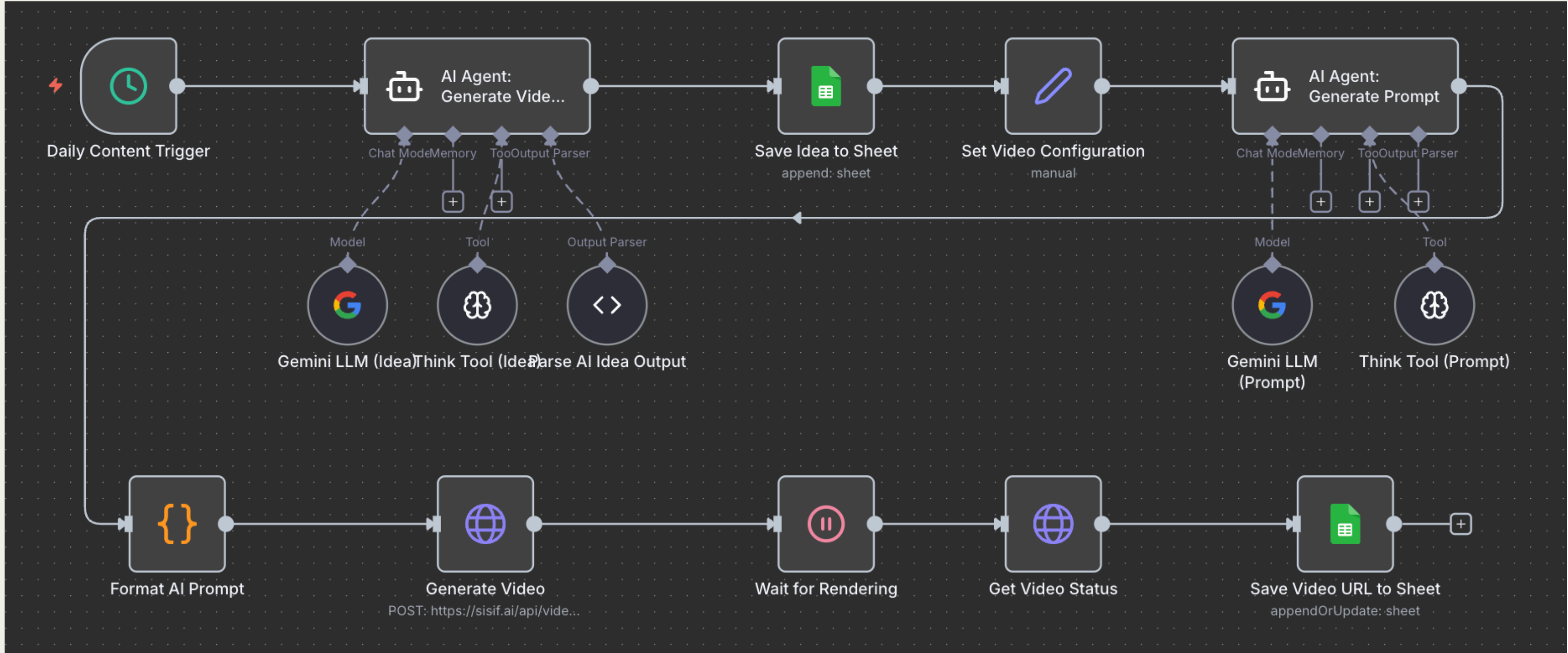
PROJECT OBJECTIVE

To build a fully automated workflow that:

- Generates an original idea using Google Gemini.

- Expands it into a structured prompt via LangChain's Think Tool.

- Sends the prompt to Sisif API to generate a video.

- Saves the video URL and details in Google Sheets.

TOOLS AND RESOURCES

Component	Type	Purpose
n8n	Workflow	Manages entire pipeline visually
Google Gemini API	AI Model	Generates creative "before/after" video ideas
LangChain	AI Agent - Think Tool	Expands idea into a structured prompt
Sisif API	Video Generator	AI videos from the prompts
Google Sheets	Cloud Resource	Stores metadata and video URLs

WORKFLOW

FUTURE SCOPE

- **Trending Ideas:** Connect with Google Trends or X to fetch trending topics.

- **Auto-Upload:** Post directly to Instagram Reels or YouTube Shorts.

- **Multiple Styles:** Allow selection of cinematic, nature, or futuristic templates.

- **Analytics:** Track engagement or performance data automatically.

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CONCLUSION

This project demonstrates how AI creativity and workflow automation can merge to simplify content production.

By integrating Gemini, LangChain, Sisif, and n8n, we've built a scalable, no-code system for generating AI-powered short videos automatically.

Outcome:
- Automates the full creative cycle.
- Reduces human effort.
- Enables scalable, daily content generation.

Thank you!

AI-POWERED IDEA AND VIDEO GENERATION

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