

# AI-Powered Idea and Video Generation

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(N8N + GEMINI + LANGCHAIN + SISIF API)

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# WHY THIS PROJECT?

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- 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

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To build a fully automated workflow that:

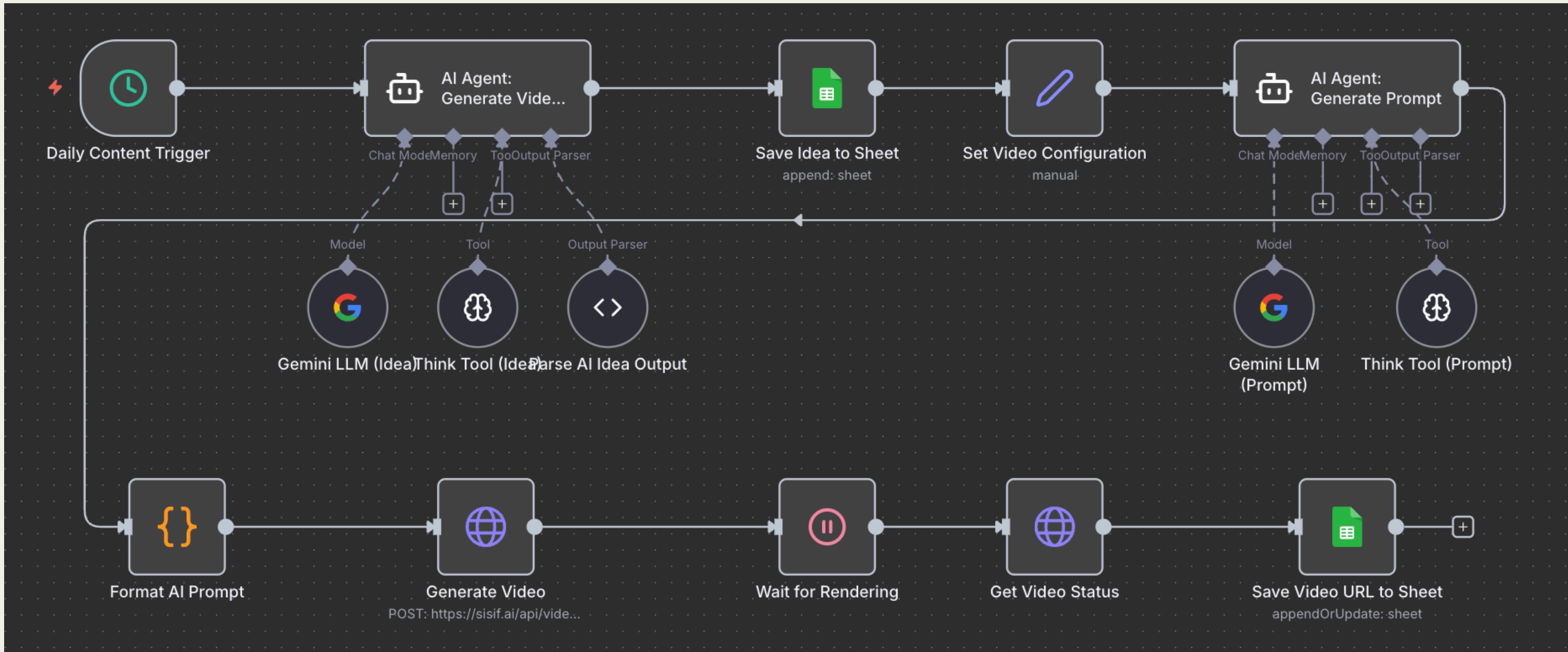
- Generates an original idea using Google Gemini.
- Expands it into a structured prompt via LangChain's Think Tool.
- Sends the prompt to Sisif API to generate a video.
- Saves the video URL and details in Google Sheets.

# TOOLS AND RESOURCES

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

# WORKFLOW



## FUTURE SCOPE

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- **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.

# CONCLUSION

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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.

**Git Repo:**

[github.com/JeevanaMukku/ai-idea-and-video-generator.git](https://github.com/JeevanaMukku/ai-idea-and-video-generator.git)

# Thank you!

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