Blog Post Generator: Opal Workflow Documentation

Project README

October 25, 2025

1 Project Overview

This document outlines the architecture and steps for the "Blog Post Generator" workflow built in Google Opal. The workflow is designed to take a single "Blog Topic" as input and automatically generate a comprehensive final blog post, complete with text, images, and a video.
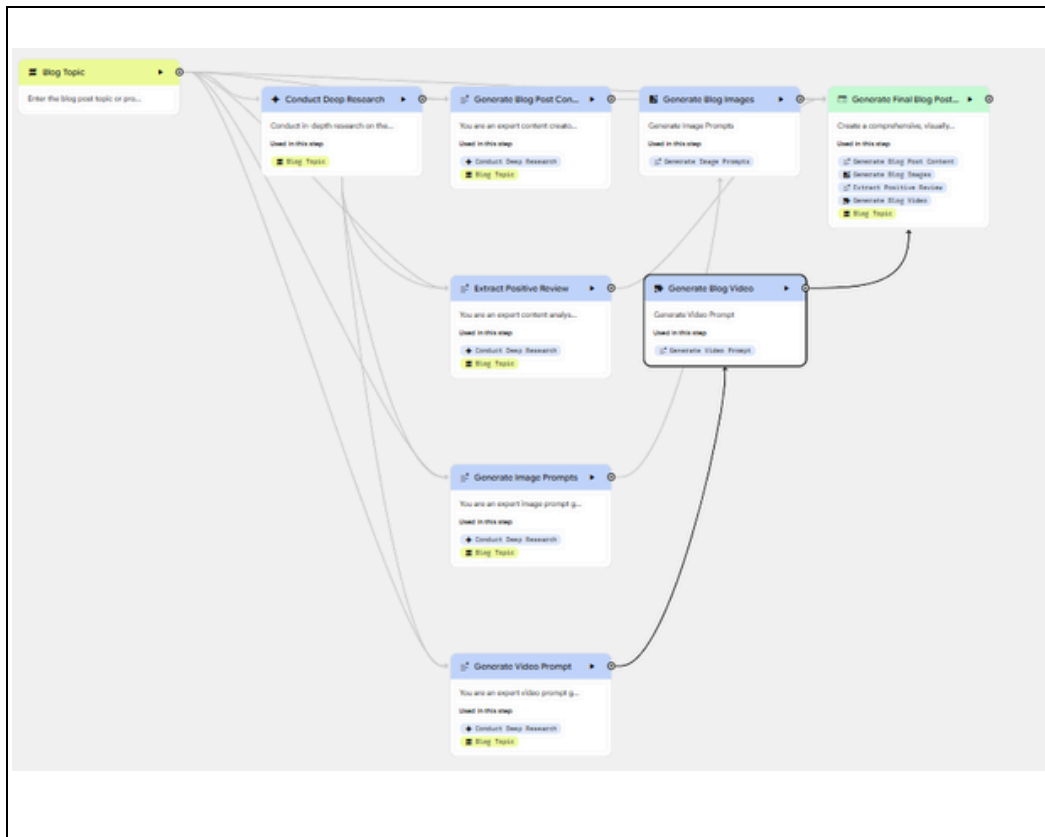

Figure 1: The complete "Blog Post Generator" workflow as seen in the Opal editor. This shows the dependency graph for all steps.

2 WorkflowSteps

The workflow is divided into the following steps. Each step is a distinct operation that builds upon the previous ones.

2.1 Blog Topic (Input)

This is the initial user input that kicks off the entire workflow.

- **Type:** User Input

- **Prompt:** "Enter the blog post topic or prompt…"

2.2 Conduct Deep Research

This step takes the user's blog topic and performs in-depth research to gather information, key points, and context.

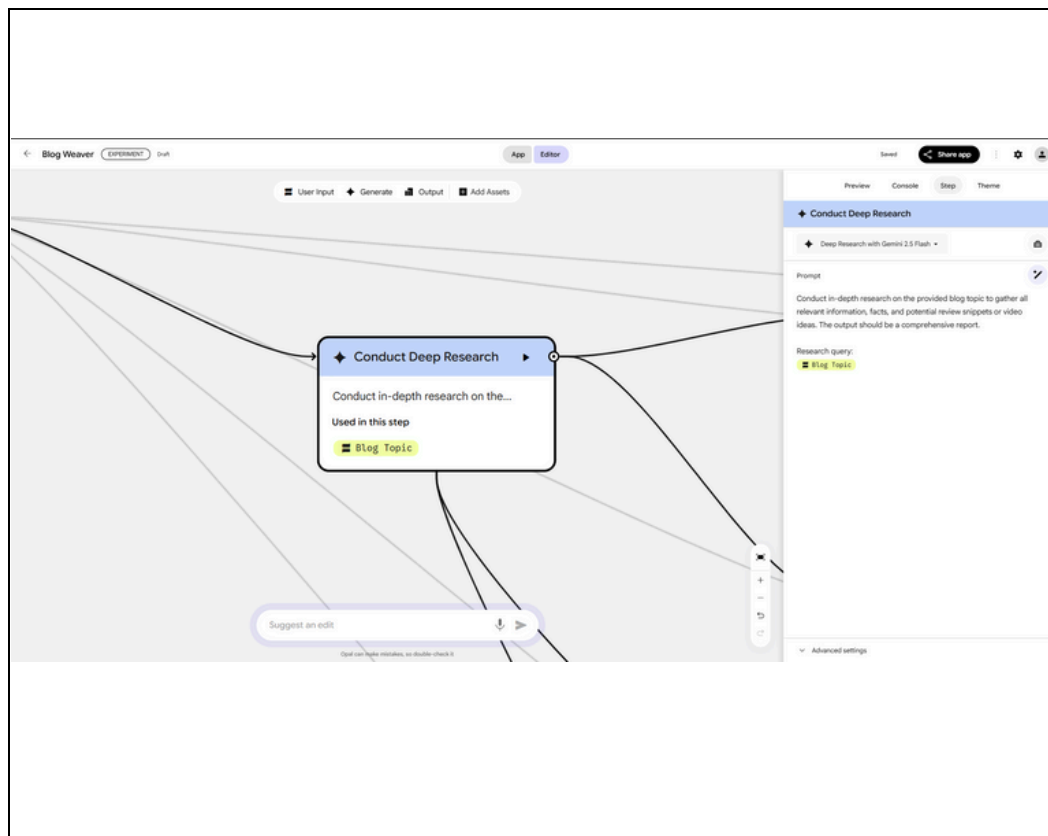- **Input(s):** 'Blog Topic'

Figure 2: Screenshot of the "Conduct Deep Research" step configuration.

2.3 GenerateImagePrompts

Using the research and the original topic, this step generates a series of descriptive prompts suitable for an image generation model.

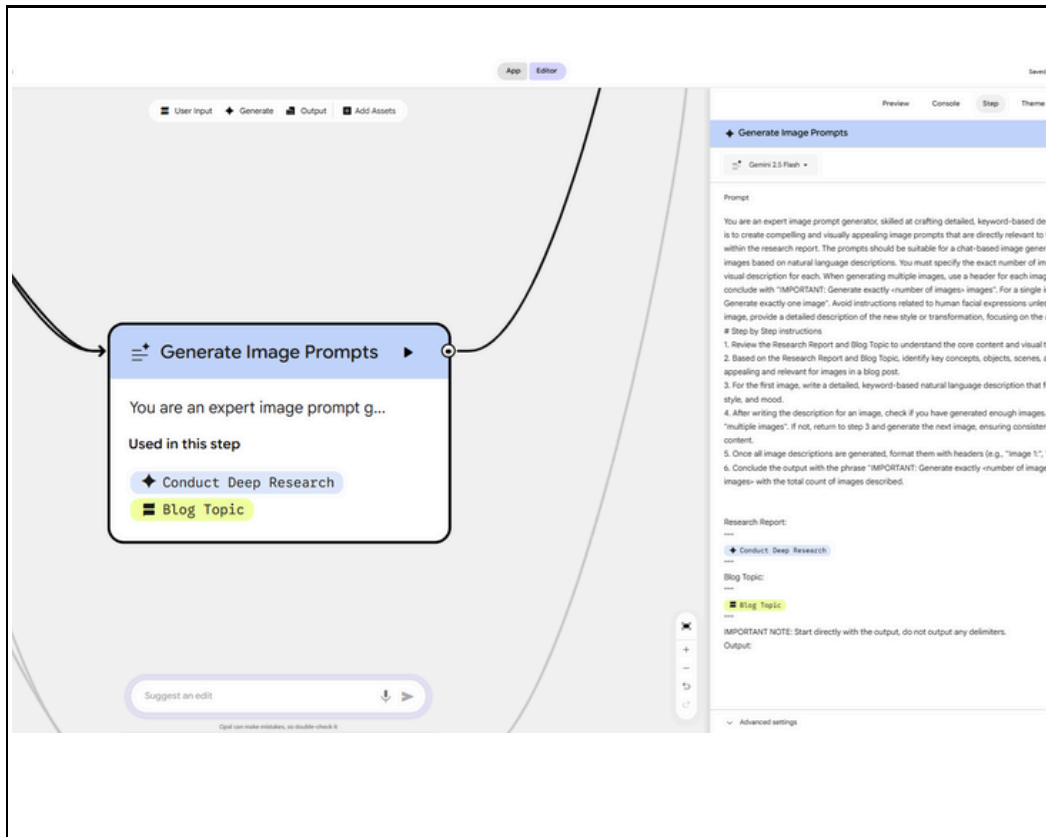- **Input(s):** 'Conduct Deep Research', 'Blog Topic'

Figure 3: Screenshot of the "Generate Image Prompts" step configuration.

2.4 GenerateVideoPrompt

Parallel to the image prompts, this step generates a script or detailed prompt for creating a summary video.

> • **Input(s):** 'Conduct Deep Research', 'Blog Topic'

Prompt Details

2.5 GenerateBlogPostContent

This step generates the main body of the blog post, including headings and paragraphs, based on the deep research.

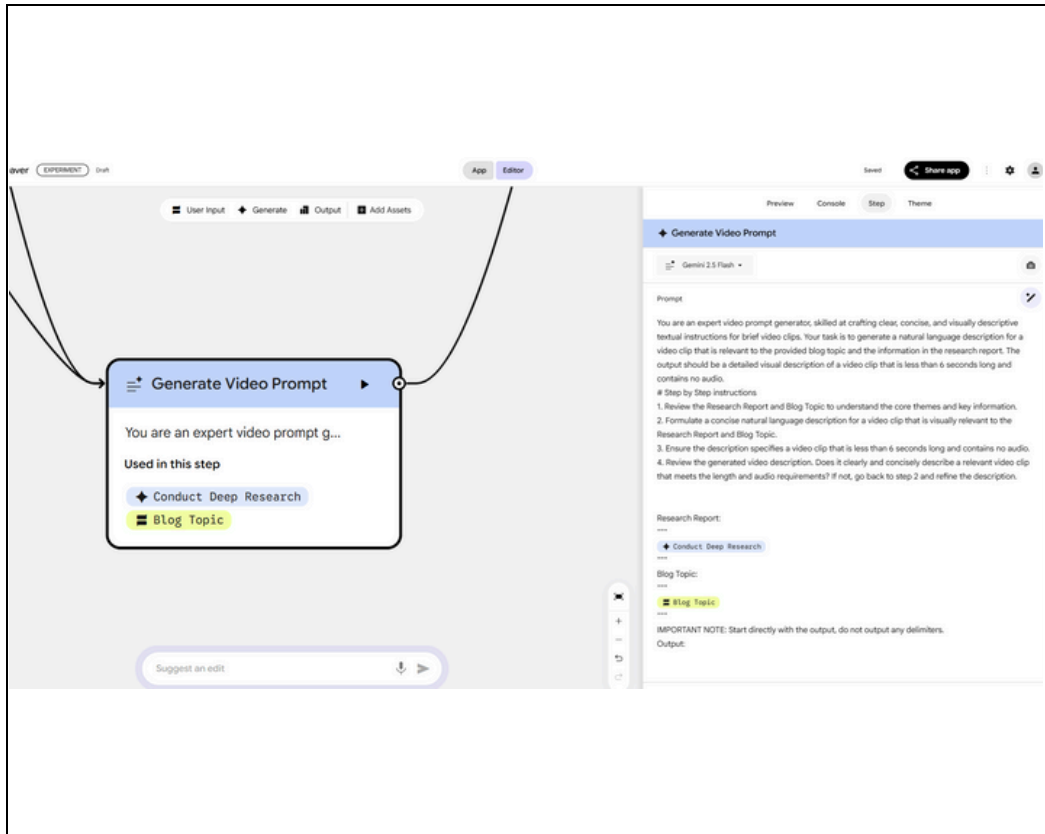> • **Input(s):** 'Conduct Deep Research', 'Blog Topic'

Figure 4: Screenshot of the "Generate Video Prompt" step configuration.

2.6 Extract Positive Review

This step appears to analyze the research to find a relevant positive review or testimonial to include in the post.

- **Input(s):** 'Conduct Deep Research', 'Blog Topic'

2.7 GenerateBlogImages

This step takes the prompts from "Generate Image Prompts" and feeds them into an image generation model.

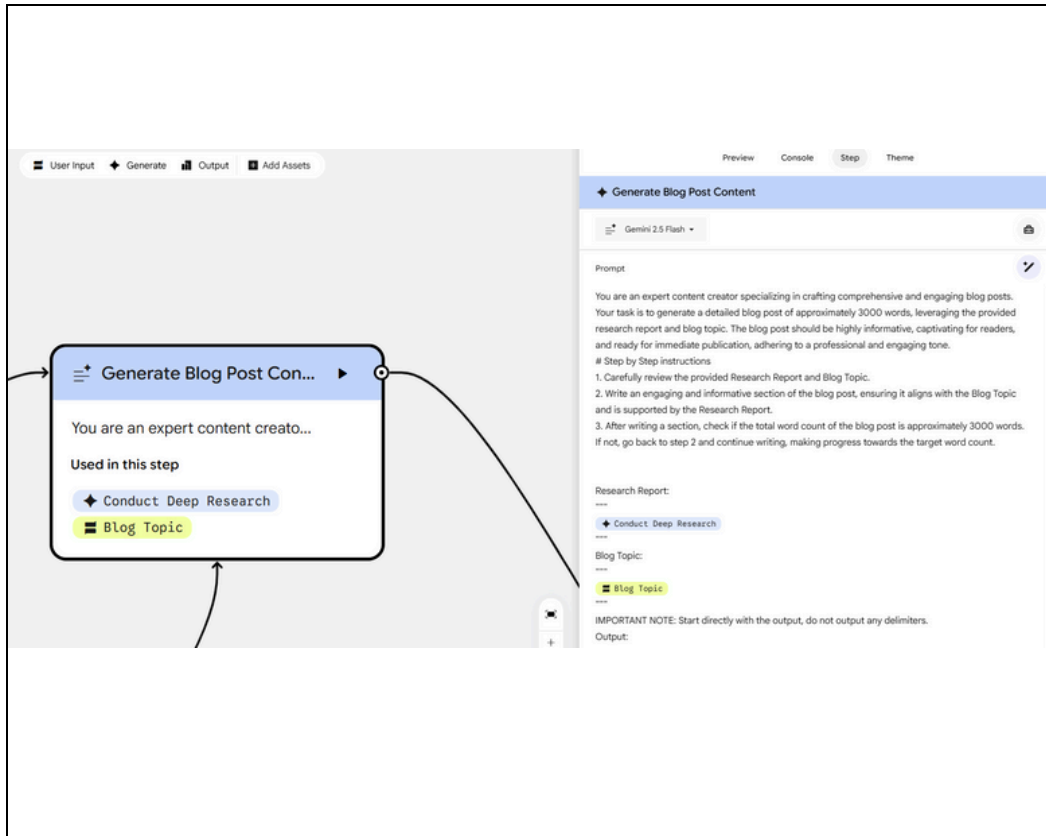- **Input(s):** 'Generate Image Prompts'

Figure 5: Screenshot of the "Generate Blog Post Content" step configuration.
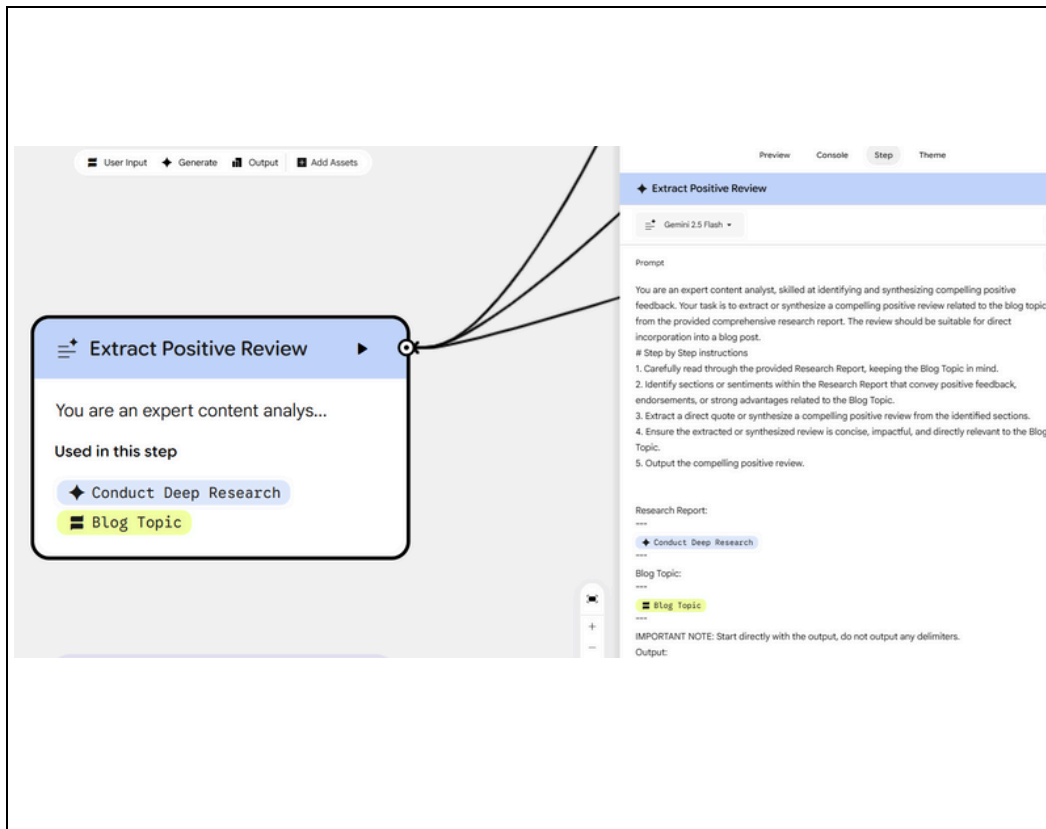

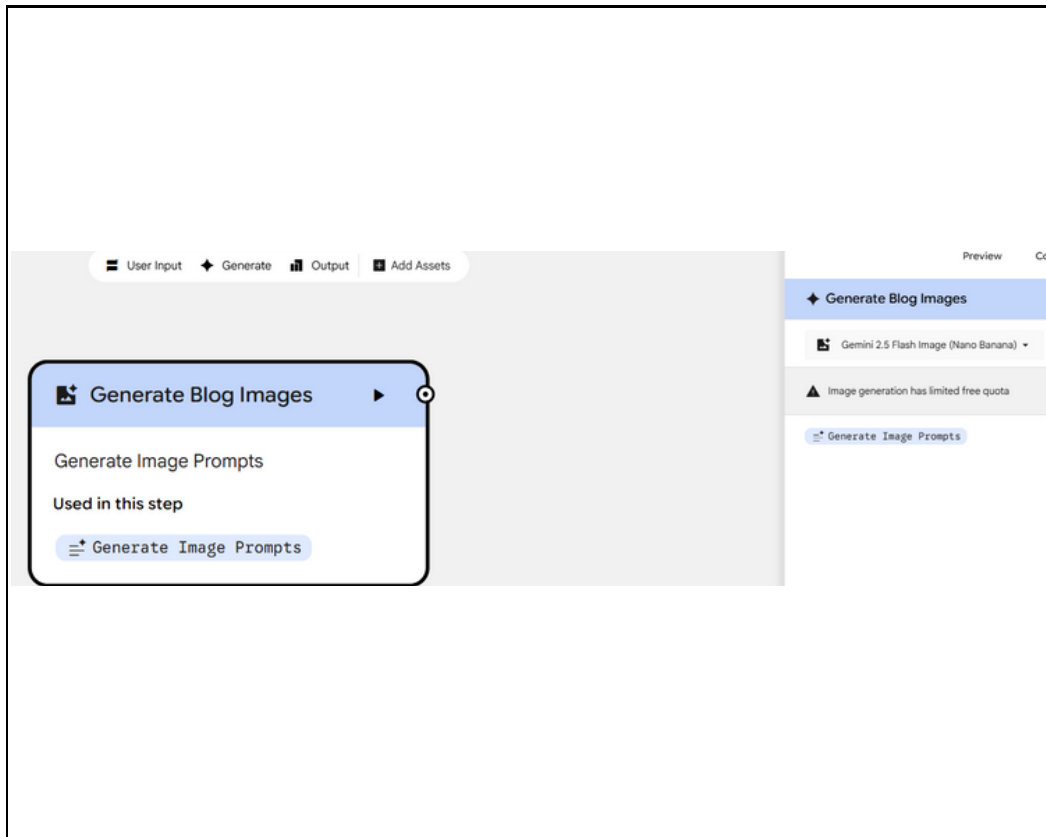Figure 6: Screenshot of the "Extract Positive Review" step configuration.

Figure 7: Screenshot of the "Generate Blog Images" step configuration.

2.8 GenerateBlogVideo

This step takes the prompt from "Generate Video Prompt" and feeds it into a video generation model.

- **Input(s):** 'Generate Video Prompt'

2.9 GenerateFinalBlogPost(Output)

This is the final step, which aggregates all the generated content (text, images, video, and review) into a single, cohesive, and formatted blog post.

- **Input(s):** 'Generate Blog Post Content', 'Generate Blog Images', 'Extract Positive Review', 'Generate Blog Video', 'Blog Topic'
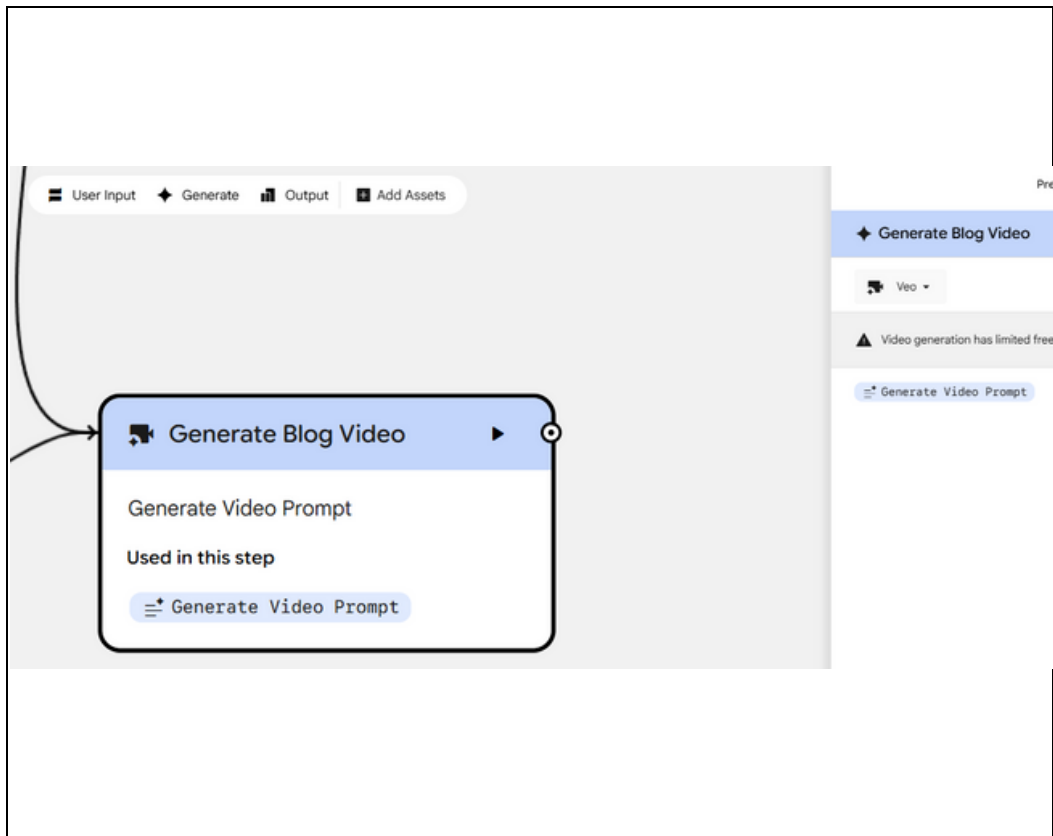
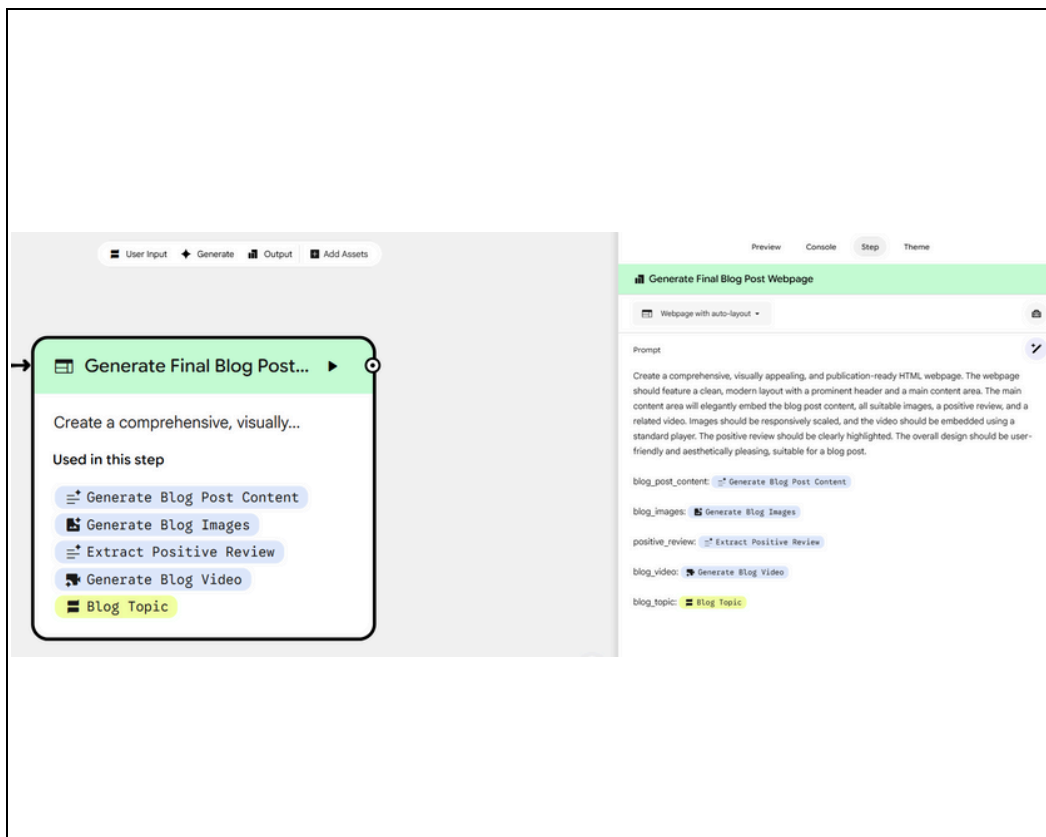Figure 8: Screenshot of the "Generate Blog Video" step configuration.

Figure 9: Screenshot of the "Generate Final Blog Post" output step configuration.

Sample Preview:

Sample Input: Write a blog post on GTA 6

Sample Output:

Download at:

https://github.com/Avi2099GIT/Google-Opal-N8N-projects/blob/main/Opal%20-%20Blog%20Writer%20Sample%20Output.html