

Workflow Report: "Content Idea Generator"

This report details the structure, purpose, and function of the automated workflow named **"Content Idea Generator"**. This workflow is a sophisticated content pipeline designed to harvest news from an automation-focused RSS feed, transform the articles into structured YouTube video concepts using a large language model (LLM), and record the results for production planning.

1. Workflow Summary

The **"Content Idea Generator"** workflow is an end-to-end automation process comprising ten connected nodes. Its primary objective is to streamline the content brainstorming process for a YouTube channel specializing in AI and automation.

- **Input Source:** The RSS feed for the `/r/Automation` subreddit.
- **Core Action:** An **AI Agent** powered by a Groq Chat Model generates three structured video ideas per article.
- **Output Destination:** A Google Sheet named **"youtube idea generator"** for tracking and production.

2. Node-by-Node Analysis

The workflow executes in a linear fashion, with distinct phases for data ingestion, cleaning, processing, and output.

Phase 1: Data Ingestion and Normalization (Nodes 1-4)

Node Name	Node Type	Description
When clicking 'Execute workflow'	<code>manualTrigger</code>	Serves as the starting point, manually initiating the process.
HTTP Request	<code>httpRequest</code>	Fetches the raw XML data (RSS feed) from https://www.reddit.com/r/Automation/.rss .

XML	xml	Converts the fetched XML content into a structured, machine-readable JSON format.
Code	code	Executes a robust custom script to parse the varied structures of RSS/Atom JSON output, extracting and standardizing the title , link , and pubDate for all article entries.

Phase 2: AI Processing and Content Generation (Nodes 5-9)

Node Name	Node Type	Description
Code1	code	Filters the data to a minimalist payload, passing only the title and link for each article to the AI Agent, reducing token usage and focusing the input.
AI Agent	agent	The central component. It uses the input article details and a detailed System Message (acting as an experienced YouTube content strategist) to generate three unique video concepts per item.
Groq Chat Model	lmChatGroq	The powerful language model (openai/gpt-oss-20b) that executes the creative generation logic defined by the AI Agent's prompt.
Simple Memory	memoryBufferWindow	Provides short-term memory (30 messages) for the AI Agent, ensuring context is maintained during potentially complex or multi-step interactions.

Code2	code	A critical cleaning step that parses the raw text output from the AI Agent. It specifically removes JSON delimiters (<code>`json`</code>) and converts the resulting string into a structured array of JSON objects.
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Phase 3: Final Output (Node 10)

Node Name	Node Type	Description
Google Sheets	googleSheets	Takes the cleaned and structured JSON output and performs an append operation to save the video ideas—specifically videoTitle , description , hook , and format —into the "Sheet1" of the "youtube idea generator" spreadsheet.

3. Conclusion

The "Content Idea Generator" workflow successfully automates a complex content strategy process. It reliably converts disparate web data into a clean, actionable dataset ready for immediate use by a content team, demonstrating effective use of data transformation and advanced language model capabilities within a unified automation platform.