



# 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.

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## 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'	manualTrigger	Serves as the starting point, manually initiating the process.
HTTP Request	httpRequest	Fetches the raw XML data (RSS feed) from <a href="https://www.reddit.com/r/Automation/.rss">https://www.reddit.com/r/Automation/.rss</a> .

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

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

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

<b>Code2</b>	code	A critical cleaning step that <b>parses the raw text output</b> from the AI Agent. It specifically removes JSON delimiters (`\`json`) 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
<b>Google Sheets</b>	googleSheets	Takes the cleaned and structured JSON output and performs an <b>append</b> operation to save the video ideas—specifically <b>videoTitle</b> , <b>description</b> , <b>hook</b> , and <b>format</b> —into the " <b>Sheet1</b> " of the " <b>youtube idea generator</b> " 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.