**Extract insights & analyse YouTube comments via**

AI Agent chat

What does this do?

* **Chat-Based YouTube Assistant:**  
  The workflow listens for chat messages (via a chat trigger) that contain user requests about YouTube. It’s essentially a YouTube assistant that can answer questions like “What are the details of this channel?”, “Fetch video description”, “Get comments”, or “Search for videos.”
* **Dynamic Routing of Commands:**  
  Based on the command provided in the chat (e.g. "get\_channel\_details", "video\_details", "comments", "search", etc.), a switch node routes the request to the appropriate API tool workflow. This ensures that the right YouTube data is fetched or processed.
* **Tool Integrations for YouTube Data:**  
  The workflow integrates with multiple external APIs and tools:
  + **YouTube API Endpoints:** HTTP request nodes fetch channel details, video descriptions, lists of videos, and comments.
  + **Apify:** Used for video transcription, retrieving text from videos.
  + **SERP API & Thumbnail Analysis:** Provides reverse image search capabilities and analyzes video thumbnails for additional insights.
* **AI Agent Coordination:**  
  An AI Agent node (using OpenAI’s models) receives the user’s chat input and orchestrates the process, ensuring that the correct tools are invoked in the proper order. It even has built-in instructions to filter out shorts and to ask clarifying questions if needed.
* **Chat Memory & Response Handling:**  
  The workflow also uses a Postgres-based chat memory to maintain context over the conversation, and a “Response” node formats and returns the gathered data back to the user.
* **Guidance & Setup Reminders:**  
  Throughout the workflow, sticky notes provide setup instructions (like credential replacement and API key configuration) and even link to setup videos and documentation, making it easier to configure and understand.