

YouTube Automation Tool Checklist

Steps to build and implement your own YouTube content pipeline.

Based on [I Built A Full Youtube Automation Tool With Cursor Ai Auto Upload Shorts Descriptions More](#) by Casey Builds It

1. Core Automation Setup

Establish the foundational elements of your YouTube automation tool.

- Integrate a transcription service (e.g., faster-whisper) for local video files.
- Connect an AI content generation model (e.g., Claude) for descriptions and comments.
- Implement YouTube Data API for automated video uploads.
- Set up FFmpeg and FFprobe for video slicing and formatting.
- Develop a Python-based automation pipeline.
- Build a Graphical User Interface (GUI) for easier operation.
- Create a video management dashboard for existing content.

2. Transcription Process

Ensure accurate and efficient transcript generation from your videos.

- Select a transcription tool capable of local file processing.
- Configure the tool to generate transcripts directly from video files.
- Verify transcript accuracy for use in AI content generation.
- Optimize transcription speed for workflow efficiency.

3. AI Content Generation

Leverage AI to create engaging and SEO-friendly metadata.

- Input video transcripts into the AI content generator.
- Prompt the AI to write SEO-friendly video descriptions.
- Prompt the AI to generate relevant first comments.
- Configure AI to create unique descriptions for each Short.
- Develop AI prompts for generating Short thumbnails.

4. Shorts Creation Pipeline

Automate the process of converting long-form videos into Shorts.

- Use FFmpeg/FFprobe to slice long-form video into multiple clips.
- Implement smart cropping to follow on-screen action.
- Format clips for vertical Shorts display.
- Add blurred backgrounds to Shorts clips.
- Test different cropping strategies for optimal results.

- Scrap ineffective cropping methods.

5. Upload and Publishing

Streamline the process of getting your content live on YouTube.

- Configure YouTube Data API for direct video uploads.
- Automate the upload of full-length videos.
- Automate the upload of generated Shorts.
- Schedule video publication if desired.
- Verify successful upload and processing on YouTube.

6. Video Management Dashboard

Create a central hub for managing your uploaded YouTube content.

- Develop functionality to pull up existing YouTube videos.
- Implement editing capabilities for video titles.
- Add options to swap video thumbnails.
- Enable regeneration of content (descriptions, comments) after upload.
- Integrate with a video management system.

7. Advanced Features & Future Development

Explore additional functionalities and ongoing improvements.

- Implement blog integration for auto-publishing videos.
- Continuously refine AI prompts for better content.
- Monitor and update API integrations as needed.
- Explore new features for content repurposing.
- Test and integrate new AI models or tools.

Resources & Further Reading

Use these pages while working through the checklist:

■ Casey Builds It

<https://caseybuildsit.com/>

■ Casey Builds It

<https://caseybuildsit.com/the-files/>

■ Downloads

<https://caseybuildsit.com/downloads/>

■ Casey Builds It

<https://caseybuildsit.com/make-contact/>

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Automate your YouTube workflow to save time and focus on content creation.