YouTube Automation Tool Checklist

Steps to build and implement your own YouTube automation pipeline.

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

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1. Core Automation Pipeline Setup

Establish the foundational components for your YouTube content automation.

- ■ Integrate a transcription service (e.g., faster-whisper) to generate transcripts from video files.
- ■ Implement AI content generation (e.g., Claude) for descriptions and comments.
- ■ Set up YouTube Data API for automated video uploads.
- ■ Configure FFmpeg and FFprobe for video slicing and formatting.
- ■ Develop a Python-based automation script to connect these components.

2. Shorts Creation and Optimization

Automate the process of creating and publishing YouTube Shorts.

- ■ Slice long-form videos into multiple vertical Shorts clips.
- ■ Implement smart cropping to follow on-screen action.
- ■ Add blurred backgrounds to Shorts clips.
- ■ Generate unique AI descriptions for each Short.
- ■ Create AI-generated comments for each Short.
- ■ Automate the upload of each Short.

3. Content Generation and Enhancement

Leverage AI to create compelling metadata for your videos.

- ■ Generate SEO-friendly descriptions from video transcripts.
- ■ Write engaging first comments for each video.
- ■ Create unique thumbnails for Shorts.
- ■ Regenerate content (descriptions, comments) after initial upload if needed.

4. User Interface and Management

Build user-friendly interfaces for managing your automation tool.

- ■ Develop a Graphical User Interface (GUI) for the Python script.
- ■ Create a video management dashboard.
- ■ Enable editing of video titles through the dashboard.
- ■ Allow swapping of thumbnails via the dashboard.

5. Advanced Integrations (In Progress)

Explore and implement advanced features for further automation.

- Integrate blog auto-publishing functionality.
- Set up dedicated pages on your website for video content.
- Continue development on the blog integration piece.

6. Technical Stack and Tools

Identify and utilize the key technologies for your build.

- Utilize Cursor AI for development assistance.
- Use Claude for AI content generation.
- Integrate faster-whisper for local transcription.
- Employ FFmpeg and FFprobe for video processing.
- Connect with the YouTube Data API for uploads.
- Build with Python as the primary scripting language.

7. Workflow Efficiency

Measure and improve the time saved through automation.

- Quantify manual posting time per video (e.g., 1 hour).
- Automate transcript generation.
- Automate description writing.
- Automate comment creation.
- Automate video uploading.
- Automate Shorts creation and posting.
- Reduce repetitive busywork associated with content publishing.

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.