

YouTube Automation Tool Checklist

Steps to build and use a custom YouTube automation tool.

Based on [YouTube Video JFGYOVbYq_I](https://www.youtube.com/watch?v=JFGYOVbYq_I) by Casey Builds It

Watch the video: https://www.youtube.com/watch?v=JFGYOVbYq_I

1. Tool Setup and Core Functionality

Set up the foundational elements of your YouTube automation tool.

- Install and configure Cursor IDE for development.
- Set up a Python environment for the automation script.
- Integrate AI models for content generation (e.g., Claude).
- Implement transcription using Faster Whisper.
- Configure API access for YouTube Data API.
- Set up authentication for YouTube API access.

2. Video Processing Pipeline

Define the steps for processing a local video file for upload.

- Develop script to accept local video file input.
- Transcribe the video using Faster Whisper.
- Generate video description using AI (e.g., Claude).
- Generate a comment using AI (e.g., Claude).
- Prepare video for upload (e.g., title, metadata).

3. YouTube Upload Automation

Automate the process of uploading the full video to YouTube.

- Use YouTube Data API to upload the full video.
- Set video privacy settings (e.g., unlisted).
- Assign generated title and description to the video.
- Add the generated comment to the video.
- Handle potential upload errors and retries.

4. Shorts Creation and Upload

Automate the creation and uploading of YouTube Shorts from the main video.

- Implement logic to slice the main video into multiple Shorts.
- Use FFmpeg and FFprobe for video cutting.
- Apply blurred background effect for Shorts using FFmpeg.
- Generate unique descriptions for each Short using AI.

- Generate unique comments for each Short using AI.
- Upload generated Shorts to YouTube.
- Note: Thumbnails are not applicable for Shorts.

5. Video Management Interface

Build a section to manage existing videos and their content.

- Create a GUI or interface for video management.
- Implement functionality to pull up existing videos from your channel.
- Allow editing of existing video titles and descriptions.
- Enable regeneration of AI-generated content (descriptions, comments).
- Add feature to swap video thumbnails.

6. Future Integration and Expansion

Consider potential future enhancements and integrations for the tool.

- Plan integration with your website for automatic blog page generation.
- Explore adding more AI models or customization options.
- Consider features for batch processing multiple videos.
- Investigate options for releasing the tool (free or paid).

7. Development and Scripting

Understand the technical components and scripting involved.

- Understand how the Python script and GUI interact.
- Learn how FFmpeg and FFprobe are used for video manipulation.
- Familiarize yourself with YouTube Data API endpoints for uploads and management.
- Experiment with different AI prompts for description and comment generation.
- Test the tool with various video lengths and types.

Resources & Further Reading

Use these pages while working through the checklist:

Casey Builds It | -
- | caseybuildsit.com

Automate your YouTube workflow with AI and custom scripting.