Automated Content Creation Workflow Specification

Goals

This project aims to build a private GitHub repository containing a reproducible workflow for generating and publishing short-form content (video, captions, images) across TikTok, Instagram, YouTube Shorts, and other platforms. The workflow should support local iteration first, and be extendable to automated posting later. The pipeline will be documented clearly, allowing ongoing creative work to scale into a repeatable process.

Security & Repo Setup

- The GitHub repository must be created as **private**. - A `secrets.env` or `secrets.yaml` file must be generated immediately. - The secrets file must be added to `.gitignore` to prevent accidental commits. - All API keys, platform credentials, and private tokens must only live in the secrets file.

Content Pillars

1. **Cosmic Myth Bites** – Short mythological/astrological explorations. 2. **Poetic Pairings** – Short-form video-poems blending Jung/Grof/Watts quotes. 3. **Garden & Moon** – Gardening timelapses with biodynamic/Steiner voiceovers.

Pipeline Overview

1. **Inputs**: Scripts, captions, and visual prompts are drafted in Google Sheets or local text files. 2. **Generation**: Video and audio assets are created locally or via API (e.g., VEO3 for video, NanoBanana for images). 3. **Editing**: Captions are refined with GPT models, ensuring brevity and engagement. 4. **Storage**: Outputs are stored in local folders (`/inputs`, `/outputs`, `/scripts`). 5. **Publishing**: For MVP, manual upload. In future, n8n + Blotato or other posting tools.

Suggested Repo Structure

```
``` content-automation/ ■■■ inputs/ # Raw scripts, captions, prompts ■■■ outputs/ # Generated video/image/audio files ■■■ scripts/ # Processing scripts (Python, n8n configs) ■■■ config/ # Workflow configs, API endpoints ■■■ tests/ # Validation and reproducibility tests ■■■ secrets.env # API keys, tokens (in .gitignore) ■■■ README.md # Documentation ```
```

Example n8n Template (Distilled)

```
The following is a simplified template snippet showing how n8n can: - Take an input from Google Sheets - Pass it to an AI caption generator - Save it back to Google Sheets - (Future) Post to platforms via Blotato ```json { "nodes": [ { "id": "1", "name": "Google Sheets: Read Prompt", "type": "n8n-nodes-base.googleSheets" }, { "id": "2", "name": "GPT: Refine Caption", "type": "@n8n/n8n-nodes-langchain.openAi" }, { "id": "3", "name": "Google Sheets: Save Caption", "type": "n8n-nodes-base.googleSheets" } ] } ```
```
```

Development Plan

1. **MVP** – Local pipeline using Python scripts + Google Sheets. 2. **Security Setup** – Private repo with `.gitignore` for secrets. 3. **Iteration** – Test end-to-end with Earth Glyph video. 4. **Extension** – Add n8n workflows for auto-posting. 5. **Scaling** – Modular scripts for multiple content pillars.