Trial task:

Your job is to begin building the following workflow using self hosted n8n and configuring the workflow to use the local file, supabase, openai gpts, and feedback summaries of created chapters to create full length books. Credentials and data to use are at the end of this document. You can review the entire project and even suggest better ways to produce the same output and we will consider that as part of your trial.

Wifi: Kickstart Alpha or Kickstart Bravo
password: kickstart123

Project Brief: Automated Book Generation System

Objective:

Your task is to begin building a modular and scalable book-generation system using **self-hosted n8n**, Supabase, and gemini models. The system should accept a title, generate an outline, write chapters using feedback-based gating logic, and compile the final draft. The design must support human-in-the-loop notes and conditional branching at every stage.

You must use your own Supabase instance, given gemini credentials, and local file input. The goal is to show how you'd approach architecting this automation, build the first parts, and optionally suggest better approaches. We assess clarity of logic, modular design, proper use of context, and Supabase integration.

Tech Stack

Component	Tool
Automation Engine	n8n (**self-hosted**, exportable to cloud)
Database	Supabase (primary, structured input/output)
AI Model	Gemini api
Input Source	Google Sheets or local Excel (sync via n8n)
Notifications	Email (via SMTP) and/or MS Teams Webhooks
Output Files	.docx, .txt, or stored in Supabase storage / OneDrive

Workflow Stages

1. Input + Outline Stage

Input Field	Notes
title	Mandatory

notes_on_outline_before	Required before generating outline
outline	Generated by GPT, based on title + notes
notes_on_outline_after	Optional post-outline input
status_outline_notes	yes, no, no_notes_needed

Logic:
- Only generate outline if notes_on_outline_before exists.
- After outline: check status_outline_notes
  - yes: wait for notes.
  - no_notes_needed: proceed.
  - no/empty: pause.

2. Chapter Generation Stage

Input Field	Notes
outline	Used to generate chapters
chapter_notes_status	yes, no, no_notes_needed
chapter_notes (optional, per chapter)	Specific chapter notes
chapter_summaries	Stored per chapter for context chaining

Logic:
- For each chapter:
  - Use summary of all **previous chapters** as context.
  - If chapter_notes_status = yes, wait for notes.
  - If no_notes_needed, proceed.
  - If no/empty`, pause.

3. Final Compilation Stage

Input Field	Notes
final_review_notes_status	yes, no, no_notes_needed
book_output_status	Tracks if book is ready or paused

Logic:
- Compile only if:
  - final_review_notes_status = no_notes_needed
  - OR notes exist for final draft
- Export as .docx or .txt

Notification System

Trigger **email** or **MS Teams webhook** on key events:
- Outline is ready and needs review
- Waiting for chapter notes
- Final draft is compiled
- Error or pause due to missing input

Chapter Context Handling (Summaries)

Before generating chapter N, summarize chapters 1 to N–1 and pass that as context_input to GPT.

Example prompt:

"Using the following chapter summaries, write Chapter 4 of the book titled X..."

Store summaries in Supabase to re-use or regenerate if needed.

Source-Backed Research (Options)

LLMs like GPT-4 alone can't do deep web search, but here are two options:

Option A: Use GPT-4 with web-search plugins or function calling
- Integrate SerpAPI, Brave Search API, or Bing Search API
- Inject top article summaries as context before GPT writes
- Add a prompt layer:

"Use only the following sources when answering..."

Option B: Bring your own data (BYOD)
- Use scraping workflows (e.g. n8n + Browserless + Puppeteer)
- Pull in fact-based summaries from Wikipedia, Investopedia, PubMed, etc.
- Store snippets in Supabase or a vector DB
- Embed and pass relevant ones via prompt

Outputs

- Store each chapter in Supabase as individual record
- Optionally save:
  - Final draft to .docx
  - Chapter summaries
  - Outline drafts
  - Notes logs

Credentials:

Supabase:

Create free account and use that

Openai API key

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

Local file with data for first book, Title, Notes,

[Book Creator Project](#)