N8N-Template Creator

Setup & User Guide

Overview

N8N-Template Creator is an automated AI-powered workflow for n8n that:

- *Receives* documents via webhook intake.
- *Extracts* and classifies document text using advanced AI (OpenAI GPT-4).
- *Generates* a smart template based on detected document type.
- *Converts* to a clean, shareable PDF, uploading it to Google Drive with a public link.

This workflow is ideal for automating template creation and archiving from Word and PDF documents.

Prerequisites

- An operational **n8n** instance (self-hosted or cloud).
- Administrator access to import and configure workflows.
- **Google Drive** account (with permissions to create/upload files).
- API credentials for:
  - **OpenAI** (GPT-4o or GPT-4 access)
  - **Gotenberg** service (for HTML → PDF conversion)
  - **Google Drive** OAuth2 (for file upload/link sharing)
- Access to the URL for your running n8n instance (to configure the webhook endpoint).

Installation

1. **Download the N8N-Template Creator workflow JSON** provided by AI Solutions, Inc. or via your administrator.
2. **Log in to your n8n instance** as an administrator.
3. In the main dashboard, select **"Import Workflow"**, then upload or paste the provided JSON.
4. Once imported, open the workflow. **DO NOT ACTIVATE** until all configuration steps are complete.

Configuration

> **All required credentials and placeholders must be set before use.**

Webhook Intake

- The Webhook node will expose this endpoint for document intake:
  `POST /webhook/general-template-creator`
  (URL: `https://[your-n8n-domain]/webhook/general-template-creator`)
- This endpoint expects **multipart/form-data** with your document attached (typically as field `file`).

Required Credential Types

Node	Credential Type	Where/How to Set
LLM — GPT-4o (Identify)	OpenAI API Key ("openAiApi")	In **n8n Credentials**: Create a new credential of type **OpenAI API**. Enter your **OpenAI API Key** with access to GPT-4o/GPT-4 models. Link this credential in both "Document Type Classifier Agent" and "OpenAI GPT-4 Identification" nodes.
LLM — GPT-4o (Generate)	OpenAI API Key ("openAiApi")	Similar as above, assign this credential to "Template Generator Agent" and "OpenAI GPT-4 Template Generation". You may reuse the same API key as "Identify".
Gotenberg — HTML to PDF	HTTP Basic Auth ("httpBasicAuth")	In **n8n Credentials**: Add a credential of type **HTTP Basic Auth**. Enter the username/password for your **Gotenberg** PDF conversion server. In the "Convert HTML to PDF" node, set the Gotenberg API URL (usually `http://gotenberg:3000/forms/libreoffice/convert`).
GDrive — Upload PDF	Google Drive OAuth2 ("googleDriveOAuth2Api")	Create a new credential of type **Google Drive OAuth2 API** in n8n. Authorize with your Google account with permissions to upload files. Link this credential in both "Upload PDF to Google Drive" and "Set Google Drive Public Link" nodes.

Gotenberg Service URL

- In the "Convert HTML to PDF" node, enter your Gotenberg service URL as the endpoint.
  Default for Docker: `http://gotenberg:3000/forms/libreoffice/convert`
- For SaaS or hosted: use the endpoint URL provided by your administrator.

Checklist: What Needs to Be Configured

- **Webhook URL**: Customize or note the workflow's input URL for document intake.

- **Gotenberg Endpoint & Basic Auth**: Set the correct PDF conversion endpoint and credentials.
- **OpenAI API Key**: Set for all LLM nodes (GPT-4o identification and generation).
- **Google Drive OAuth2 Credential**: Add/authorize and assign to upload and sharing nodes.

Usage

1. **Activate the workflow** after all credentials and endpoints are configured.
2. **Send a document** (Word/.docx or PDF) **via HTTP POST** to:
   `https://[your-n8n-domain]/webhook/general-template-creator`
   Example (cURL):
   `curl -X POST -F "file=@/path/to/mydocument.docx" https://[your-n8n-domain]/webhook/general-template-creator`
3. The workflow will automatically:
   - **Route** the file type and extract its text.
   - **Classify** the document type using OpenAI GPT-4o (via the classifier agent).
   - **Parse** the result to determine document structure.
   - **Generate a template** based on that classification (*using AI-driven logic and prompt engineering*).
   - **Clean and format** the generated template for best readability.
   - **Convert** the HTML result to a PDF (Gotenberg service).
   - **Upload** the PDF to Google Drive, setting a public share link.
4. **Receive response:** The workflow will reply with JSON containing the Google Drive public link for easy download/sharing.

> **Supported document types:**
>
> - Microsoft Word (.docx)
> - PDF files (.pdf)

Workflow Summary

1. **Receive Document Webhook**: intake trigger
2. **Route by Document Type**: Word or PDF branch
3. **Extract Text**: Word2Text or PDF text extraction
4. **Document Type Classifier Agent** (AI/LLM)
5. **OpenAI GPT-4 Identification**
6. **Parse Document Classification** (code node parses LLM result)
7. **Template Generator Agent** (AI/LLM)
8. **OpenAI GPT-4 Template Generation**
9. **Clean and Format Output Data** (code node for output polish)

10. **Convert HTML to PDF** (Gotenberg HTTP request)
11. **Upload PDF to Google Drive**
12. **Set Google Drive Public Link**
13. **Send Webhook Response**

Troubleshooting

- **Workflow not triggering?**
  Ensure your webhook URL is correct and n8n instance is reachable from your client or integration (check firewall/proxy).
- **Google Drive upload fails?**
  Double-check that authorized **Google Drive OAuth2** credential is active and the account has file creation permissions.
- **Gotenberg conversion errors?**
  Confirm that Gotenberg service is reachable at the configured URL and that proper HTTP Basic Auth is provided.
- **AI classification/generation not working?**
  Validate that your **OpenAI API Key** has sufficient quota and correct permissions for GPT-4o/GPT-4 endpoints.
- **Receiving blank or malformed PDF?**
  Inspect the "Clean and Format Output Data" node to ensure proper HTML is being passed to Gotenberg.
- **Public link not working?**
  Check "Set Google Drive Public Link" node settings—ensure permissions are set to "Anyone with the link can view".

Support

For help, customizations, or troubleshooting please contact:

AI Solutions, Inc.
support@ais.email
automatedintelligentsolutions.com
Phone: 404-293-0331

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