

NEG AG

E X P O S E A U T O M A T I O N

Developer Quick-Reference Guide

What are you building? This doc tells you.

v2.0 | March 2026

The Big Picture (30-Second Version)

>> Folder goes in. Branded PDF comes out. That is the whole system.

The system does 3 things:

1. **INGEST:** User drops files into a OneDrive folder. AI reads everything, classifies images, extracts data, and saves it all to the database.
2. **REVIEW:** User opens a web form, sees what the AI created, edits what they want, toggles sections on/off, and clicks Generate.
3. **GENERATE:** The system builds an HTML page from the data, converts it to a PDF via headless Chrome, and delivers it.

There are two PDF formats: Short Form (portrait A4, compact, already working) and Long Form (landscape A3 spread booklet, being built now).

The Flow: Step by Step

USER selects OneDrive folder in UI

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[W-01 INGESTION] n8n workflow

- Scans folder files
- AI classifies every image (Gemini Vision)
- OCR extracts text from documents (Azure)
- LLM generates structured content template
- Saves to NocoDB: 1 Expose + N Sections + N Images
- Sends email notification

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[UI FORM] React app at expose.neg.ag

- User sees AI-generated expose
- Can edit text, reorder sections, upload images
- Can toggle sections ON/OFF (new)
- Can pick Short Form or Long Form (new)
- Clicks Generate PDF

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[W-02 PDF GENERATION] n8n workflow

- Fetches all data from NocoDB
- Filters out disabled sections (new)
- Builds HTML (Short Form OR Long Form template)
- Sends to Gotenberg (headless Chrome -> PDF)
- Attaches PDF to expose record
- Done!

The Database: 3 Tables, That's It

Everything lives in NocoDB (self-hosted, like Airtable). Three tables:

EXPOSES (the property)

Table ID: mv00nvrs79hcarh

One row = one property. Holds: title, address, status, AI confidence, OneDrive source, and the final PDF attachment.

- **Key field:** Status tracks the lifecycle: Draft > AI_Draft > Submitted > generating_pdf > completed
- **New field:** ExposeType (short_form | long_form) controls which PDF template gets used.

SECTIONS (the content blocks)

Table ID: m0ckfqsmhat77di

One row = one section of the expose (cover, key facts, location, floor plans, etc.). Linked to Exposes via ExposeId.

- **Content field:** Plain text for text sections, JSON for structured sections (key-value, location POIs, data tables).
- **Order field:** Determines render sequence in the PDF.
- **New field:** Enabled (boolean). If false, this section is skipped in PDF generation but stays in the DB.

IMAGES (the photos/plans)

Table ID: mto0jc7j6zzf6nr

One row = one image. Linked to Exposes via ExposeId. Has rich AI metadata: category, quality score, role (Hero/Sub), content type, floor plan level.

- **FileName field:** NocoDB attachment. Array with signedPath for display URL.
- **Mapping:** Images link to sections via ImageRefsJson (on the Section) or SectionId (on the Image).

What Exists vs. What You Need to Build

Component	Status	What to Do
W-01 Ingestion (auto-poll)	DONE	Working. Only need to add manual trigger webhook.
W-02 PDF Gen (Short Form)	DONE	Working for portrait A4. Keep as-is.
W-02 PDF Gen (Long Form)	BUILD	New code node for landscape HTML assembly. Add IF branch for ExposeType.
Long Form HTML Template	60%	test-template.html has 9/18 page types. Build remaining 9.
UI Form (list + edit)	DONE	Working. All section components exist.
UI: Expose Type Selector	BUILD	Dropdown: Short Form / Long Form. Saves to ExposeType field.
UI: Section Toggles	BUILD	Checkbox on each section card. Saves to Enabled field.
UI: OneDrive Folder Browser	BUILD	New component. Express proxy endpoint to list folders via MS Graph.
UI: Long Form Section Types	BUILD	New add-buttons: Foreword, Legal, References, Press, Impressum.
NocoDB Schema	UPDATE	Add 2 fields: ExposeType on Exposes, Enabled on Sections.
Brand Identity / Logos	DONE	All PNG logos and style guides available.

Long Form Template: The Landscape Booklet

This is the main deliverable. A landscape A3 spread (420mm x 297mm) per page, styled to match the NEG_AG_Layoutvorlage example PDF.

Brand Rules (Non-Negotiable)

Element	Value
Primary color	#2B3A44 (dark steel blue) - use for headers, bars, Z-pattern
Accent color	#B8A387 (warm gold) - use for bars, highlights, rules
Headings	DM Serif Display, italic, uppercase, 30px
Body text	Open Sans, weight 300, 11-12px, justified, #414D4D
Z-pattern	Diagonal stripes at -55deg, 6% white opacity. Used on blue panels.
Page size	420mm x 297mm (CSS: --page-w / --page-h)

Pages in the Long Form (Build Checklist)

#	Page	Layout	Status	CSS Class
1	Cover	Hero image + brand panel overlay	DONE	.cover
2	Table of Contents	Left: TOC list / Right: blue Z-panel	DONE	.idx
3	Foreword (Vorwort)	Left 60%: letter / Right 40%: photo+brand	DONE	.fw
4	Legal Disclaimer	Full-width 4-column justified text	BUILD	.legal
5	Key Facts + Project	Left: table+text / Right: full image	DONE	.kf
6	Project Description	Left: text with subheadings / Right: image+overlay	BUILD	.proj-desc
7	Location Macro	Left 35%: blue text+POIs / Right 65%: map	DONE	.loc
8	POI Photo Strip	3 photos side-by-side, full-bleed	BUILD	.poi-strip
9	Location Micro	Photo / map / legend sidebar	DONE	.loc-micro
10	Full-Bleed Image	Full spread image with text overlay	BUILD	.hero-spread
11	City Stats	Left 60%: text+stats / Right 40%: photos	DONE	.city
12	Image Gallery	Full-bleed panorama spread	BUILD	.gallery
13	Floor Plans + Tables	Room table left / plan image right	PARTIAL	.fp
14	Floor Plan Details	2-up plans with room measurements	BUILD	.fp-detail
15	Initiator	Left: text / Right: image	DONE	.text-split

16	References	Project photos + feature bullets	BUILD	.refs
17	Press + Legal	Press quotes + Prospekthaftung	BUILD	.press
18	Contact / Back Cover	Left: blue Z-pattern / Right: logo+contact	DONE	.contact

UI Form: What to Add

1. OneDrive Folder Picker

Purpose: Let users browse and select a OneDrive folder instead of the system auto-polling.

- New Express route: GET /api/onedrive/folders (calls Microsoft Graph API).
- New React component: OneDriveFolderPicker.jsx (shows folder cards with names and dates).
- User selects folder, clicks Generate, this triggers W-01 with { folder_id, folder_name }.
- After ingestion completes, the expose appears in the list ready for editing.

2. Expose Type Toggle

A dropdown at the top of the form: Kurz-Expose | Lang-Expose.

- Stored in Exposes.ExposeType field.
- When Long Form is selected, show extra section buttons (Foreword, Legal, References, etc.).
- When Short Form is selected, only show existing section buttons.
- Passed to W-02 webhook so it knows which template to use.

3. Section Enable/Disable

A toggle on every section card: Include in PDF (default: on).

- Stored in Sections.Enabled field (boolean).
- When off, the section card is grayed out but still editable.
- W-02 skips disabled sections when building the HTML.

4. New Section Type Buttons (Long Form only)

Add these buttons when ExposeType is long_form:

- + Vorwort (Foreword)
- + Rechtlicher Hinweis (Legal Disclaimer)
- + Referenzen (Reference Projects)
- + Pressestimmen (Press Quotes)
- + Impressum

Key Files: Where Everything Lives

File	What It Does
UI Form/src/App.jsx	Main app: routing, form state, section rendering, submit logic
UI Form/src/api/nocodb.js	All NocoDB API calls + image URL helpers + webhook trigger
UI Form/src/components/ExposeList.jsx	List view: shows all exposes with status pills
UI Form/src/components/Section*.jsx	Section editor components (Text, Images, KeyValue, Location, etc.)
UI Form/server.cjs	Express proxy: injects NocoDB token, forwards webhooks to n8n
Long Form/html/test-template.html	THE Long Form HTML template. This is what W-02 will assemble.
Short Form/html/expose-template-v3.html	Existing Short Form template (portrait A4, production)
N8N/W-01 *.txt	n8n workflow JSON: data ingestion pipeline
N8N/W-02 *.txt	n8n workflow JSON: PDF generation pipeline
Brand Identity/extracted logos/	NEG AG logos as PNG (dark, white, line, icon)

Build Order: Do This, In This Sequence

>> Each step depends on the previous one. Don't skip ahead.

#	Task	Where	Time	Needs
1	Add ExposeType + Enabled fields in NocoDB	NocoDB admin UI	30 min	-
2	Complete Long Form template (9 missing pages)	test-template.html	2-3 days	-
3	Add expose type selector + section toggles to UI	App.jsx + CSS	1-2 days	#1
4	Add new Long Form section components to UI	New components	1 day	#3
5	Build Long Form HTML assembler in W-02	n8n Code node	2-3 days	#1, #2
6	Configure Gutenberg for landscape A3	n8n HTTP node	1 hour	#5
7	Build OneDrive folder browser in UI	server.cjs + component	2 days	#3
8	Add manual trigger webhook to W-01	n8n Webhook node	2 hours	#7
9	End-to-end integration testing	Everything	2 days	All

>> Total: ~10-14 working days for the full scope.

Quick Reference Card

NocoDB IDs

Base: pk7i4bqetoy32x4
Exposes: mv00nvrs79hcarh
Sections: m0ckfqsmhat77di
Images: mto0jc7j6zzf6nr

Webhook URLs

PDF Generation: POST /api/webhook/expose-approved { expose_id: 42 }
Manual Ingest: POST /api/webhook/ingest-folder { folder_id: "abc" } (NEW)

Status Flow

Draft -> AI_Draft -> Manual_Review -> Submitted -> generating_pdf -> completed

PDF Sizes

Short Form: A4 portrait (210mm x 297mm)
Long Form: A3 landscape (420mm x 297mm)

Key URLs

UI Form: https://expose.neg.ag
NocoDB: https://nocodb.saits.click
n8n: (check deployment config)
Gotenberg: (check deployment config)