

Master Operational Manual

This **Master Operational Manual** covers every step of the VHP (Vermont Health Platform) lifecycle, from generating an idea with AI to interacting with it in the Chat application.

****Prerequisite:**** Open your terminal and navigate to your project root:

```
```bash
cd ~/Vermont-Health-Platform
```
---
```

Phase 1: Content Generation (Gemini)

****Goal:**** Create a structured JSON article using the latest protocol.

****1. The "Golden Key" Prompt****

You must copy this ****entire block**** into Gemini for every new article.

* ****File Location:**** `frontend/sanity/prompt_template_v7.txt` (Save this locally for safekeeping).

```
```text
*** SYSTEM INSTRUCTIONS: HTR CONTENT PROTOCOL v7.0 ***
```

ROLE: Chief Research Officer (HTR).

TASK: Generate a valid JSON payload for the "policyAnalysis" schema.

**\*\*\* 1. STRICT OUTPUT RULES \*\*\***

- Output ONLY a single, raw JSON object. No markdown formatting (no ```json).
- No conversational text.
- Do NOT escape quotes inside the Data Table. Provide it as a standard JSON Array.
- VIDEO RULE: The "url" field MUST be a raw string (e.g., "[https://youtube.com/]([https://youtube.com/])..."). Do NOT format it as a Markdown link.

**\*\*\* 2. CATEGORY ENFORCEMENT (Must match Navbar) \*\*\***

Use ONLY these slugs for the 'category' field based on the chosen Pillar:

A. IF PILLAR = "Policy"

- "regulation" (Regulation & Legislation)
- "mandates" (Public Health Mandates)
- "global" (Global & Comparative Policy)
- "feasibility" (Policy Feasibility Studies)

B. IF PILLAR = "Economics"

- "value" (Value-Based Care Models)
- "market" (Market & Finance)
- "cea" (Labor & Workforce Strategy)
- "investment" (Healthcare Investment Trends)

C. IF PILLAR = "Technology"

- "ai" (AI & Machine Learning)
- "digital" (Digital Health & Telemedicine)
- "security" (Data Security & Governance)
- "workflow" (Tech-Enabled Workflow)

**\*\*\* 3. SCHEMA DEFINITION \*\*\***

```
{
 "_type": "policyAnalysis",
 "title": "String",
 "slug": { "current": "kebab-case-slug" },
 "publishedAt": "YYYY-MM-DDTHH:mm:ssZ",
 "status": "Active",
 "pillar": "Policy" | "Economics" | "Technology",
```

```

"category": "String (See List Above)",
"impactLevel": "Critical" | "High" | "Medium",
"summary": "2-3 sentence abstract.",
"body": [
 {
 "_type": "block",
 "style": "normal",
 "children": [{ "_type": "span", "text": "Paragraph text." }]
 },
 {
 "_type": "block",
 "style": "h2",
 "children": [{ "_type": "span", "text": "Header Text" }]
 },
 {
 "_type": "block",
 "style": "blockquote",
 "children": [
 {
 "_type": "span",
 "text": "The quote text.",
 "marks": ["highlight-economics"]
 }
],
 {
 "_type": "code",
 "title": "Table Caption",
 "language": "json",
 "code": [
 { "Metric": "Value A", "Result": "Value B" },
 { "Metric": "Value C", "Result": "Value D" }
]
 },
 {
 "_type": "video",
 "url": "INSERT_REAL_URL_HERE",
 "caption": "Video description"
 },
 {
 "_type": "audio",
 "title": "Episode Title",
 "summary": "Short description of the audio clip."
 }
]
]
}

```

\*\*\* TASK PARAMETERS (EDIT THIS PART ONLY) \*\*\*

TARGET LENGTH: [e.g. 2000 Words]

INSTRUCTION: Expand on every section to meet this depth. Do not summarize; analyze.

TOPIC: [Insert Topic Here]

PILLAR: [Insert Pillar Here]

CATEGORY: [Insert Category Slug Here]

KEY DATA: [Insert Data Points]

...

**\*\*2. Saving the Output\*\***

\* Copy the JSON output from Gemini.

\* Create a new file in: `frontend/sanity/content`.

\* **Naming Convention:** `articleX.json` (e.g., `article10.json`).

\* **Action:** Paste the JSON and save.

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### ### Phase 2: Importing to CMS (Sanity)

\*\*Goal:\*\* Upload the JSON file to the Sanity database.

\*\*1. The Command\*\*

Open your terminal (ensure you are in `Vermont-Health-Platform` root):

```
```bash
# 1. Enter Frontend
cd frontend

# 2. Run Import (Replace 'article10.json' with your actual filename)
node scripts/import.js article10.json

...```

```

2. Success Indicator

You should see:

> Imported: "Your Article Title"

Troubleshooting:

- * *Error: "Insufficient permissions"* -> Your token in `./env.local` is Viewer, not Editor.
- * *Error: "File not found"* -> You typed the wrong filename or didn't save it in `sanity/content/`.

Phase 3: Editing & Publishing (Sanity Studio)

Goal: Finalize the content and make it live.

1. Launch the Studio

While still in `frontend/`:

```
```bash
npm run dev

...```

```

\*\*2. Access the Interface\*\*

\* Open Browser:

[<http://localhost:3000/studio>](<https://www.google.com/search?q=http://localhost:3000/studio>)

\* Login (if asked) using your Sanity credentials.

\*\*3. The Publishing Workflow\*\*

1. Click \*\*"Policy Analysis"\*\* on the left menu.
2. Click your new article (it will be in the list).
3. \*\*Check for Validation Errors (Red Icons):\*\*
  - \* \*\*Audio:\*\* If you don't have an MP3, delete the empty Audio block (trash can icon).
  - \* \*\*Video:\*\* Ensure the URL is valid.
  - \* \*\*Date:\*\* Ensure a date is selected.

4. \*\*Hit "Publish"\*\* (Green button at bottom right).

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### ### Phase 4: The Frontend (User View)

\*\*Goal:\*\* Verify the article looks correct on the website.

## **\*\*1. Access the Site\*\***

The site runs on the same server you just started (`npm run dev`).

\* **URL:** [http://localhost:3000](https://www.google.com/search?q=http://localhost:3000)

## **\*\*2. Navigation\*\***

- \* Click the **Menu** (Hamburger icon) or the **Pillar Dropdowns** (Policy, Economics, Tech).
- \* Find your article under the category you assigned (e.g., "Economics -> Value-Based Care").
- \* Click to read. Verify the **Data Table** renders correctly and the **Video** plays.

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## **### Phase 5: The Chat Application (Backend)**

**Goal:** Interact with your RAG (Retrieval-Augmented Generation) Chatbot.

### **\*\*1. Setup (New Terminal)\*\***

Open a **new** terminal window (keep the frontend running in the first one).

```
```bash
# 1. Go to project root
cd ~/Vermont-Health-Platform

# 2. Activate Python Virtual Environment
source backend/venv/bin/activate
# (You should see (venv) in your prompt)

# 3. Enter Backend Directory
cd backend

# 4. Start the Python App
python main.py

````
```

*\*(Note: If your entry file is named differently, use `python PITS\_APP/main.py` or similar. Based on our history, `python main.py` is standard).\**

## **\*\*2. Access the Chat\*\***

\* **URL:** Typically

[http://127.0.0.1:5000](https://www.google.com/url?sa=E&source=gmail&q=http://127.0.0.1:5000)  
(Check terminal output for exact port).

## **\*\*3. The Workflow\*\***

\* **Upload:** Use the UI to upload PDFs (Policy documents, Reports).

\* **Process:** Click "Process" to let the backend vectorize the text.

\* **Chat:** Ask questions like **"Summarize the impact of inflation on rural hospitals"** to test against your own data.

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## **### Summary Checklist**

| Component           | Key File Location                        | Command to Run                         | Local URL        |
|---------------------|------------------------------------------|----------------------------------------|------------------|
| --                  | --                                       | --                                     | --               |
| <b>**Prompt**</b>   | `frontend/sanity/prompt_template_v7.txt` | <b>*Copy/Paste to AI*</b>              | N/A              |
| <b>**Import**</b>   | `frontend/scripts/import.js`             | `node scripts/import.js <file>`        | N/A              |
| <b>**Studio**</b>   | `frontend/sanity/schemaTypes/`           | `npm run dev`                          | `/studio`        |
| <b>**Frontend**</b> | `frontend/app/`                          | `npm run dev`                          | `localhost:3000` |
| <b>**Backend**</b>  | `backend/PITS_APP/`                      | `source venv...` then `python main.py` | `localhost:5000` |