

Qwen version 2

Workflow Automation Design for Filter FMT

Goal: Automate conversational profiling, extract insights, and categorize prospects using AI and structured workflows.

1. Tools & Integrations

- **n8n** (workflow automation)
- **Chatbot Platform:** Streamlit/Flask (custom web app) or Telegram/WhatsApp API
- **AI/NLP:** GPT API (for dynamic responses and sentiment analysis)
- **Database:** Google Sheets/Airtable (to store responses)
- **Sentiment Analysis:** Python (NLTK/TextBlob) or API-based tools
- **Analytics:** Google Data Studio or Tableau (for profiling dashboards)

2. Workflow Steps

Step 1: Trigger the Conversation

- **Trigger:** User initiates chat via a web app or messaging platform.
- **Action:** Send pre-designed **Opening Message** (e.g., "Your profile has this effortless energy...").

Step 2: Dynamic Question Routing

- Use **n8n's "Switch" node** to route responses based on keywords or sentiment.
 - Example:
 - If the user mentions "trust," trigger the **Trust & Vulnerability** section.
 - If they mention "past relationships," route to **Relationship History**.

Step 3: AI-Powered Response Generation

- **GPT API Integration:**
 - Input: User's response + predefined FMT question structure.
 - Output: Generate follow-up questions dynamically using **indirect probing** and **rhetorical flattery**.
 - Example:
 - User says, "Trust takes time."
 - GPT generates: "That's such a great perspective! Would you say trust comes easily to you, or is it something that builds over time?"

Step 4: Sentiment & Tone Analysis

- Use **Python scripts** or **TextBlob** in n8n's "Code" node to analyze:

- Emotional tone (positive/negative/neutral).
- Keywords (e.g., "betrayal," "adventure," "cautious").
- Adjust follow-up questions based on sentiment (e.g., if negative, pivot to empathetic prompts).

****Step 5: Data Collection & Storage****

- ****Store Responses**** in Google Sheets/Airtable with columns like:
 - User ID | Question Category | Response | Sentiment | Timestamp
- Use n8n's ****Google Sheets node**** to log data automatically.

****Step 6: Prospect Categorization****

- ****Automated Tagging****:
 - Use n8n's "Set" node to tag users based on keywords (e.g., "Trust: High," "Emotional Availability: Low").
 - Example:
 - If a user says, "I've been scammed before," tag as ****"Cautious"**** and ****"Trust: Low."****
- ****Scoring System****: Assign scores for traits like emotional readiness or compatibility.

****Step 7: Adaptive Pathways****

- ****Conditional Logic****:
 - If a user is tagged "Trust: Low," trigger a follow-up question like:
 - "I completely understand—it's not always easy, especially if you've been let down before..."
 - If tagged "Emotional Availability: High," route to ****Future Compatibility**** questions.

****Step 8: Analytics & Reporting****

- ****Dashboard****: Use Google Data Studio to visualize:
 - Prospect categories (e.g., "High Potential," "Cautious," "Adventure-Seeker").
 - Sentiment trends over time.
 - Common pain points (e.g., "geographical barriers," "past betrayals").

**3. Example Automation Flow in n8n**

Here's a simplified visual of the workflow:

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[User Message] → [Trigger: New Chat] → [GPT API: Generate Response] → [Sentiment Analysis] → [Store in Google Sheets] → [Tag/Score User] → [Send Adaptive Follow-Up]


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****4. Testing & Iteration****

- ****Pilot Testing****: Run the workflow with test users and refine:
 - Adjust GPT prompts for better conversational flow.
 - Improve sentiment analysis accuracy.
- ****A/B Testing****: Experiment with different flattery phrases or question structures.

****Why This Works****

- ****Subtlety****: AI-generated questions mimic human fluidity, avoiding interrogation vibes.
- ****Scalability****: Automate conversations with hundreds of users simultaneously.
- ****Insights****: Structured data enables precise categorization and decision-making.

Let me know if you want help building this in n8n (or another tool) with specific node configurations! 

Let's build your ****Filter FMT workflow**** in ****n8n**** step-by-step. Below is a practical guide with node configurations and logic. I'll assume you have basic familiarity with n8n (if not, [check their docs](https://docs.n8n.io/)).

****Step 1: Set Up Your n8n Workflow****

1. ****Create a New Workflow**** in n8n.
2. ****Add a Webhook Trigger**** to start the conversation (e.g., when a user sends a message).
 - Use ****Webhook > HTTP Request**** node.
 - Configure it to listen for incoming POST requests (e.g., from your chatbot frontend or messaging platform).

****Step 2: Process User Input with AI (GPT API)****

****Goal****: Dynamically generate follow-up questions using GPT-3/4.

1. ****Add a GPT API Node****:
 - Use the ****OpenAI > Chat Completion**** node.
 - Configure with your OpenAI API key.
 - ****Prompt Structure****:

...

"You are a conversational AI using the Filter FMT framework.
User's last message: {{ \$json.message }}
Generate a follow-up question using rhetorical flattery and indirect probing.
Avoid interrogation-style questions. Keep it engaging and open-ended."
...

- Example Output:

"Your profile has this effortless energy—like someone with a story worth hearing. If you had to give your life a title, what would it be?"

Step 3: Sentiment Analysis for Adaptive Responses

****Goal**:** Analyze user sentiment to adjust follow-up questions.

1. ****Add a Code Node**** (JavaScript/Python):

- Use ****TextBlob**** or ****NLTK**** for sentiment analysis.

- Example Python code:

```
```python
from textblob import TextBlob
user_response = inputs.message # Get user's message
sentiment = TextBlob(user_response).sentiment
return {"sentiment_polarity": sentiment.polarity, "sentiment_subjectivity":
sentiment.subjectivity}
```
```

- ****Install Dependencies**:** Add `textblob` to your n8n environment.

2. ****Add a Switch Node**:**

- Route responses based on sentiment (e.g., positive, neutral, negative).

- Example Conditions:

- If `sentiment_polarity > 0.2` → Route to ****Positive Path****.

- If `sentiment_polarity < -0.2` → Route to ****Cautious Path****.

Step 4: Store Data in Google Sheets

****Goal**:** Log user responses and metadata.

1. ****Add a Google Sheets Node**:**

- Configure with your Google Sheets credentials.

- Map data to columns like:

- `User ID` | `Question Category` | `Response` | `Sentiment` | `Timestamp`

- Example:

```
```json
```

```
{
 "User ID": "{{json.user_id}}",
 "Question Category": "Trust & Vulnerability",
 "Response": "{{json.message}}",
 "Sentiment": "{{json.sentiment_polarity}}"
}
,,
```

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### ### \*\*Step 5: Categorize Users with Tags\*\*

**\*\*Goal\*\*:** Automatically tag users based on keywords or sentiment.

#### 1. **\*\*Add a Set Node\*\*:**

- Create tags like `Trust: High`, `Emotional Availability: Low`, etc.
- Example Logic:
  - If the user mentions "scammed" → Add tag `Trust: Cautious`.
  - If sentiment is negative → Add tag `Risk: Guarded`.

#### 2. **\*\*Add a Switch Node for Adaptive Paths\*\*:**

- Example:
  - If tag = `Trust: Cautious` → Send follow-up:
 

**\*\*"Trust is a journey, isn't it? Do you think it's easier to build in person or online?"\*\***

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### ### \*\*Step 6: Build Adaptive Follow-Up Paths\*\*

**\*\*Goal\*\*:** Send tailored questions based on user tags.

#### 1. **\*\*Add Conditional Logic\*\*:**

- Use **\*\*IF Nodes\*\*** or **\*\*Switch Nodes\*\*** to route follow-ups.
- Example:
 

```
,,,
```

```
IF tag = "Emotional Availability: High"
THEN ask: "What's one lesson from a past relationship that stayed with you?"
,,,
```

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### ### \*\*Step 7: Test and Iterate\*\*

#### 1. **\*\*Test the Workflow\*\*:**

- Use n8n's **\*\*Test Mode\*\*** to simulate user interactions.
- Check if data is stored correctly in Google Sheets.

## 2. **\*\*Refine Prompts\*\***:

- Adjust GPT prompts for better conversational flow.
- Example: Add more flattery or storytelling cues.

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### ### **\*\*Sample Workflow Screenshot\*\***

Here's a simplified visual of the nodes:

```

[Webhook Trigger] → [GPT API Node] → [Sentiment Analysis Code Node] →
[Google Sheets Node] → [Tagging Switch Node] → [Adaptive Follow-Up]

```

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### ### **\*\*Pro Tips\*\***

1. **\*\*Start Simple\*\***: Build the core flow first (e.g., trigger → GPT → Google Sheets), then add sentiment analysis and tagging.
2. **\*\*Use n8n's Community Nodes\*\***: Explore pre-built nodes for Telegram, WhatsApp, or Airtable if needed.
3. **\*\*Security\*\***: Store API keys securely in n8n's **\*\*Credentials\*\*** section.

Let me know if you want help with specific node configurations or JSON exports!

