

AI Article Generator Agent - MVP

Documentation

Overview

This is an intelligent Slack-integrated workflow that generates professional, SEO-optimized articles through conversational interaction. The system accepts both text and voice inputs, maintains conversation context, and automatically creates formatted Google Docs.

Key Features

1. Multi-Input Support

- **Text Input:** Direct messages in Slack
- **Voice Input:** Audio file uploads that are automatically transcribed

2. Intelligent Article Generation

- AI-powered article creation with SEO optimization
- Interactive approval process before finalization
- Conversational requirement gathering
- Context-aware editing and refinement

3. Automated Document Creation

- Generates Google Docs automatically
- Applies professional formatting
- Includes comprehensive metadata (SEO titles, meta descriptions, tags, etc.)

How It Works

User Journey

1. User mentions bot in Slack → 2. Provides topic (text/voice)



4. Approves or requests edits ← 3. AI asks for requirements



5. Document auto-created → 6. Receives Google Doc link

Required Information

When you request an article, the AI will ask for:

- **Target Audience:** Who is this for? (e.g., doctors, patients, tech professionals)
- **Word Count:** Desired length (500/1000/1500 words)
- **Tone/Style:** Professional, casual, or technical
- **Purpose:** Inform, persuade, or educate

Article Components

Every generated article includes:

Core Content:

- Title & SEO-optimized title
- Introduction with hook
- Structured sections with headings
- Data-driven insights
- Conclusion with takeaways

SEO Metadata:

- Meta description (150-160 characters)
- Excerpt for previews
- Focus keyphrase
- Related keyphrases (7 keywords)
- Categories and tags

Social Media Optimization:

- Open Graph (OG) title, description
- Twitter-specific metadata
- Canonical URL structure

Workflow Architecture

Components

1. **Slack Trigger:** Listens for mentions in designated channel
2. **Filter:** Validates message (excludes bot messages, ensures content exists)
3. **Input Router:** Determines if input is text or voice
4. **Voice Transcription:** Converts audio to text using OpenAI Whisper
5. **AI Agent:** Manages conversation and article generation
6. **Memory System:** Maintains conversation context per user
7. **Google Docs Integration:** Creates and updates documents
8. **Response Handler:** Sends threaded replies back to Slack

Technical Stack

- **Platform:** n8n workflow automation
- **AI Model:** GPT-4.1-mini (OpenAI)
- **Transcription:** OpenAI Whisper API
- **Memory:** Buffer window memory (per-user sessions)
- **Storage:** Google Drive folder integration
- **Interface:** Slack workspace integration

Usage Instructions

Getting Started

1. **Initiate Conversation**
 - Mention the bot in the configured Slack channel
 - Provide your article topic via text or voice message
2. **Provide Requirements**
 - Answer the AI's questions about audience, word count, tone, and purpose
 - Be specific to get better results
3. **Review Generated Article**
 - The AI will present the article for review
 - Check content, structure, and SEO elements
4. **Request Edits (Optional)**
 - Ask for specific changes or improvements
 - The AI will refine based on your feedback
5. **Approve for Creation**
 - Once satisfied, approve the article
 - Google Doc will be automatically created
6. **Access Document**
 - Receive the Google Docs link in Slack thread
 - Document is saved in the configured Drive folder

Best Practices

For Better Results:

- Be specific about your target audience
- Provide examples of desired tone if needed
- Mention any specific points to include
- Review SEO elements carefully before approval

Voice Input Tips:

- Speak clearly in a quiet environment
- Keep messages focused and concise

- Complex requirements work better via text

Configuration Details

Channel Setup

- Currently configured for channel: `paolo-agent`
- Responds to app mentions (`@bot`)
- Maintains threaded conversations

Google Drive

- Documents saved to folder ID: `1QoUBtmssJzN9klyQHHuvJZj90DyCS37i`
- Automatic title extraction from article
- Full article content inserted with formatting

Memory Management

- Per-user conversation history
- Session key based on Slack user ID
- Context maintained across messages in thread

MVP Limitations & Future Enhancements

Current Limitations:

- Single channel configuration
- Manual approval required for each article
- No batch processing

Potential Enhancements:

- Multi-channel support
- Template library for different article types
- Direct WordPress publishing
- Analytics and performance tracking
- Image generation and insertion
- Citation and reference management

Support & Troubleshooting

Common Issues:

- If bot doesn't respond: Ensure proper mention format

- Voice not transcribing: Check audio format and file size
- Document not created: Verify Google Drive permissions

Technical Specifications

API Integrations:

- OpenAI GPT-4.1-mini API
- OpenAI Whisper API
- Google Docs API
- Slack API

Authentication Required:

- OpenAI API credentials
- Google OAuth2 (Docs access)
- Slack App credentials

Workflow ID: 80338d46d1f85953201be313442ce86b52df48222556e548d7cfcf6fa95a83c1

This MVP is production-ready and fully functional. It demonstrates core capabilities while maintaining room for future expansion based on client feedback.

U

remove limitation

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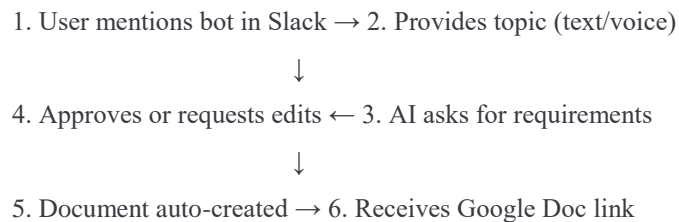
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Slack:

The screenshot shows a Slack interface for a channel named **#paolo-agent**. The channel has options to "Invite teammates", "Add canvas", "Files", and a "+" icon. The message history shows a user **engr.umair842** asking "hi" and "what is my name?". A bot named **@Paolo Agent** responds with "what is my name?". Below the messages is an audio player for a recording named **Recording.m4a** (0:09, 237 kB) with a "Generate transcript" button. A thread is open on the right, showing a message from **Paolo Agent** (APP) at 11:54: "Hello Jalal Khan! To generate the article on Machine Learning for you, could you please provide a few details:". The thread lists four requirements: 1. Target Audience (e.g., students, professionals, general readers), 2. Word Count (e.g., 500, 1000, 1500 words), 3. Tone/Style (e.g., professional, casual, technical), and 4. Purpose (e.g., to inform, to educate, to persuade). The thread also shows a "Reply..." input field and a checkbox for "Also send to #paolo-agent".

N8N Workflow:

