

# Automation Documentation Agent

## Project Overview

This document provides a comprehensive overview of the Automation Documentation Agent project, an AI-driven system for autonomous document generation, review, and publishing.

### Key Features:

- â€¢ Multi-Modal Interaction via Telegram
- â€¢ AI-Powered Document Processing
- â€¢ Automated Workflow with n8n
- â€¢ Notion Integration for Collaboration
- â€¢ GitHub Publishing Pipeline
- â€¢ Version Control and Document Management

### System Architecture:

The system consists of several integrated components:

1. Telegram Bot Interface
2. n8n Automation Engine
3. AI Processing Engine
4. Notion Integration
5. GitHub Integration

### Technology Stack:

- â€¢ Backend: Node.js with Express.js
- â€¢ AI Processing: Python with FastAPI
- â€¢ Database: PostgreSQL with Redis caching
- â€¢ AI Models: OpenAI GPT-4
- â€¢ Automation: n8n workflows
- â€¢ Storage: Notion API
- â€¢ Version Control: GitHub API

### Supported Document Formats:

- â€¢ PDF files (up to 10MB)
- â€¢ Word documents (.docx, up to 10MB)
- â€¢ Markdown files (.md, up to 5MB)
- â€¢ Text files (.txt, up to 5MB)

### Workflow Process:

1. User interacts via Telegram bot
2. Files are uploaded and validated
3. AI processes documents and generates content
4. Results are stored in Notion
5. Documents are published to GitHub
6. Version control and collaboration enabled