

WF01 – Client Intake Workflow

WF01 – Client Intake Workflow

Implementation & Testing Report

Project Information

Item	Details
Project	Hermes + n8n Legal Workflow Automation
Workflow ID	WF01
Workflow Name	Client Intake
Tool Name	<code>create_client_matter</code>
Platform	n8n
Integration	Hermes MCP Gateway
Status	✅ Successfully Implemented & Tested

1. Objective

The Client Intake Workflow automates the client onboarding process within the Hermes legal automation platform. The workflow captures client information, creates a unique matter record, generates a dedicated Google Drive folder, stores the client details in Google Sheets, and sends a welcome email. This automation eliminates manual data entry, improves data consistency, and streamlines the client registration process.

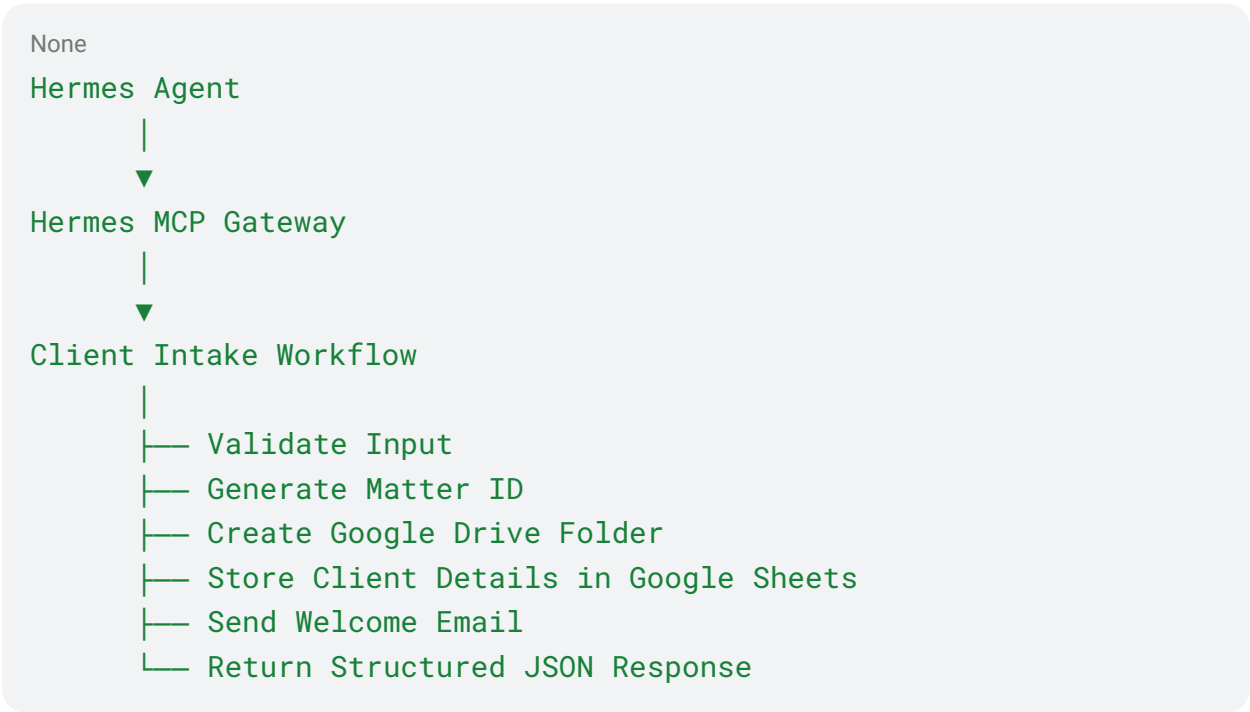
2. Business Objective

The primary objectives of the Client Intake Workflow are:

- Automate client onboarding.
- Receive client information through the Hermes MCP Gateway.
- Generate a unique Matter ID for each client.
- Create a dedicated Google Drive folder for matter documents.

- Store client details in Google Sheets.
- Send a welcome email to the client automatically.
- Return a structured JSON response to Hermes.
- Reduce manual effort and improve operational efficiency.

3. Workflow Architecture



4. Workflow Inputs

Parameter	Description
client_name	Name of the client
email	Client email address
matter_type	Type of legal matter

Sample Input

```
JSON
{
  "client_name": "Rahul Sharma",
  "email": "rahul.sharma@example.com",
  "matter_type": "Contract Review"
}
```

5. Workflow Outputs

The workflow returns a structured JSON response containing the created matter information.

Sample Output

```
JSON
{
  "status": "success",
  "matter_id": "MAT-1005",
  "client_name": "Rahul Sharma",
  "folder_url": "https://drive.google.com/drive/folders/xxxxxxx",
  "assigned_to": "Legal Team"
}
```

6. Workflow Implementation

The Client Intake Workflow was implemented in n8n and integrated with the Hermes MCP Gateway. The following components were successfully configured and implemented.

6.1 Hermes MCP Gateway Integration

Implemented:

- Execute Workflow Trigger

- Request mapping
- JSON request handling
- Response formatting

Status:  Completed

6.2 Input Validation

Implemented validation for:

- Client Name
- Email Address
- Matter Type

Invalid or missing values are handled before workflow execution.

Status:  Completed

6.3 Matter ID Generation

Implemented automatic Matter ID generation.

Features:

- Reads existing Matter IDs
- Identifies the highest ID
- Generates the next sequential Matter ID
- Prevents duplicate IDs

Example:

MAT-1001
MAT-1002
MAT-1003
MAT-1004
MAT-1005

Status:  Completed

6.4 Google Drive Integration

Implemented:

- Automatic folder creation
- Folder naming using Matter ID
- Folder URL generation

Example Folder Name

MAT-1005_Rahul_Sharma

Status:  Completed

6.5 Google Sheets Integration

Configured Google Sheets to store:

- Matter ID
- Client Name
- Email
- Matter Type
- Folder URL
- Created Date

Status:  Completed

6.6 Gmail Integration

Configured Gmail node to automatically send a welcome email after successful client registration.

Email includes:

- Matter ID
- Welcome message
- Confirmation of successful onboarding

Status:  Completed

6.7 JSON Response Generation

Implemented structured JSON response compatible with Hermes MCP Gateway.

Returned fields include:

- Status
- Matter ID
- Folder URL
- Client Name
- Assigned Team

Status:  Completed

7. n8n Nodes Implemented

Node	Purpose
Execute Workflow Trigger	Receives request from Hermes MCP Gateway
Set	Maps input fields
Google Sheets	Reads existing Matter IDs / Stores details
Code	Generates next Matter ID
Google Drive	Creates client folder
Gmail	Sends welcome email
Respond to Workflow	Returns JSON output

8. Challenges & Resolutions

Challenge	Resolution
Matter ID duplication	Implemented dynamic generation by incrementing the highest value.

Challenge	Resolution
Folder URL Mapping	Updated sequence to create folder before updating Sheets.
Null values	Added input validation nodes to handle missing Hermes data.

9. Testing Methodology

Testing was performed by executing the workflow with different client data through the Hermes MCP Gateway and validating every workflow component independently.

The following areas were verified:

- Input validation
 - Matter ID generation
 - Google Drive folder creation
 - Google Sheets data storage
 - Gmail notification
 - JSON response generation
-

10. Test Case Results

Test Case	Expected Result	Actual Result
Registration	Matter created	✓ Passed
Unique ID	Next ID generated	✓ Passed
Drive Folder	Folder created	✓ Passed

11. Test Summary

Component	Status
Hermes MCP Gateway Integration	 Passed
Input Validation	 Passed
Matter ID Generation	 Passed
Google Drive Integration	 Passed
Google Sheets Integration	 Passed
Gmail Integration	 Passed
JSON Response	 Passed

Total Test Cases Executed: 6

Passed: 6

Failed: 0

Success Rate: 100%

12. Sample Execution

Request

```
{  
  "client_name": "Rahul Sharma",  
  "email": "rahul.sharma@example.com",  
  "matter_type": "Contract Review"  
}
```

Response

```
{
```

```
"status": "success",  
"matter_id": "MAT-1005",  
"client_name": "Rahul Sharma",  
"folder_url": "https://drive.google.com/drive/folders/xxxxxxx",  
"assigned_to": "Legal Team"  
}
```

13. Final Result

The **Client Intake Workflow (WF01)** was successfully implemented and integrated with the **Hermes MCP Gateway** using **n8n**. The workflow automates the complete client onboarding process, including client data validation, unique Matter ID generation, Google Drive folder creation, Google Sheets record management, Gmail notifications, and structured JSON response generation. Functional testing confirmed that all implemented components operated as expected, making the workflow ready for production use within the Hermes legal automation platform.

WF03 – Legal Notice Draft Workflow

WF03 – Legal Notice Draft Workflow

Implementation & Testing Report

Project Information

Item	Details
Project	Hermes + n8n Legal Workflow Automation
Workflow ID	WF03
Workflow Name	Legal Notice Draft
Tool Name	<code>draft_legal_notice</code>
Platform	n8n
Integration	Hermes MCP Gateway
Status	 Successfully Implemented & Tested

1. Objective

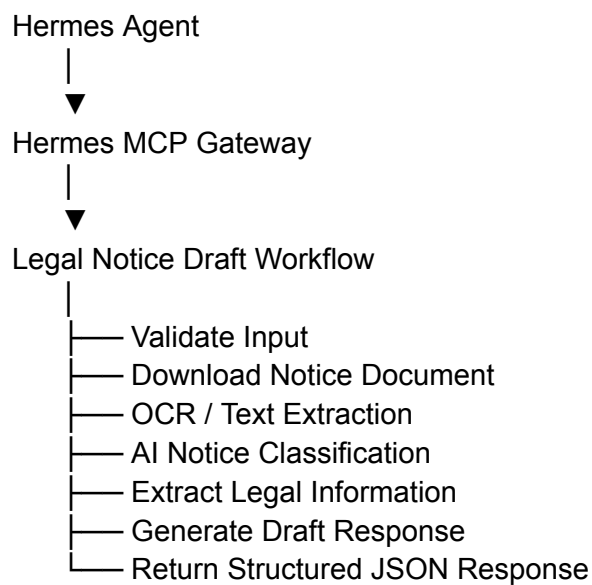
The Legal Notice Draft Workflow automates the preparation of legal notice responses within the Hermes legal automation platform. The workflow receives a legal notice document, extracts the relevant information, classifies the notice type, identifies important dates and legal demands, and generates a structured first-draft response for lawyer review. This automation reduces manual drafting effort, improves consistency, and accelerates the legal notice handling process.

2. Business Objective

The primary objectives of the Legal Notice Draft Workflow are:

- Automate the preparation of legal notice drafts.
 - Receive legal notice documents through the Hermes MCP Gateway.
 - Retrieve uploaded notice documents from Google Drive.
 - Extract relevant text using OCR or file text extraction.
 - Classify the legal notice using AI.
 - Identify notice type, demand amount, and reply deadline.
 - Generate a structured draft response for legal review.
 - Return a structured JSON response to Hermes.
 - Reduce manual effort and improve drafting consistency.
-

3. Workflow Architecture



4. Workflow Inputs

Parameter	Description
document_url	URL of the uploaded legal notice
gstn	GSTIN or organization identifier (if applicable)

Sample Input

JSON

```
{
  "document_url":
  "https://drive.google.com/file/d/legal_notice.pdf",
  "gstln": "24AABC1234D1Z5"
}
```

5. Workflow Outputs

The workflow returns a structured JSON response containing the extracted legal notice details and generated draft information.

Sample Output

JSON

```
{
  "status": "success",
  "notice_type": "ASMT-10",
  "demand": "320000",
  "reply_due": "2026-08-01",
  "draft_status": "Generated"
}
```

6. Workflow Implementation

The Legal Notice Draft Workflow was implemented in n8n and integrated with the Hermes MCP Gateway. The following components were successfully configured and implemented.

6.1 Hermes MCP Gateway Integration

Implemented:

- Execute Workflow Trigger
- Request mapping
- JSON request handling
- Structured response formatting

Status:  Completed

6.2 Input Validation

Implemented validation for:

- Document URL
- GSTIN
- Mandatory request parameters

Invalid or missing inputs are validated before processing.

Status:  Completed

6.3 Google Drive Integration

Implemented:

- Retrieval of uploaded legal notice
- File download using Google Drive node
- Document availability validation

Status:  Completed

6.4 OCR / Text Extraction

Implemented:

- OCR processing for scanned documents
- Text extraction from uploaded files
- Document content validation before AI processing

Status:  Completed

6.5 AI Notice Classification

Implemented AI processing to:

- Identify legal notice category
- Classify notice type
- Detect legal sections
- Analyze notice content

Status:  Completed

6.6 Legal Information Extraction

Implemented extraction of:

- Notice Type
- Demand Amount
- Reply Deadline
- Relevant Legal Details

The extracted information is used to prepare the draft response.

Status:  Completed

6.7 Draft Response Generation

Implemented AI-generated draft preparation including:

- Structured legal response
- Reply summary
- Response recommendations
- Draft formatting

Status:  Completed

6.8 JSON Response Generation

Implemented structured JSON response compatible with Hermes MCP Gateway.

Returned fields include:

- Status
- Notice Type
- Demand Amount
- Reply Deadline
- Draft Status

Status:  Completed

7. n8n Nodes Implemented

Node	Purpose
Execute Workflow Trigger	Receives request from Hermes MCP Gateway
Google Drive	Downloads uploaded legal notice
Extract From File / OCR	Extracts document text
AI Model	Classifies notice and generates draft
Code	Calculates reply deadline and urgency
Set	Formats structured response
Respond to Workflow	Returns JSON output

8. Implementation Challenges & Resolutions

Challenge	Resolution

Unable to extract text from scanned notices	Configured OCR/Text Extraction node before AI processing.
Incorrect notice classification	Improved AI prompt and document preprocessing.
Missing reply deadline	Added extraction logic and validation in the workflow.
Incomplete JSON response	Standardized output using Set and Respond to Workflow nodes.
File retrieval issues from Google Drive	Verified Google Drive credentials and corrected file mapping.

9. Testing Methodology

Testing was performed by executing the workflow with multiple legal notice documents through the Hermes MCP Gateway and validating every workflow component independently.

The following areas were verified:

- Input validation
 - Google Drive file retrieval
 - OCR/Text extraction
 - AI notice classification
 - Demand amount extraction
 - Reply deadline detection
 - Draft response generation
 - JSON response generation
-

10. Test Cases Executed

Test Case	Expected Result	Actual Result	Status
Valid legal notice upload	Document processed successfully	Successful	 Passed

Google Drive file retrieval	Document downloaded	Successful	 Passed
OCR/Text extraction	Text extracted correctly	Successful	 Passed
Notice classification	Correct notice type identified	Successful	 Passed
Demand amount extraction	Demand amount extracted	Successful	 Passed
Reply deadline detection	Deadline identified correctly	Successful	 Passed
Draft response generation	Draft generated successfully	Successful	 Passed
JSON response generation	Correct structured response returned	Successful	 Passed

11. Test Summary

Component	Status
Hermes MCP Gateway Integration	 Passed
Input Validation	 Passed
Google Drive Integration	 Passed
OCR/Text Extraction	 Passed
AI Notice Classification	 Passed
Legal Information Extraction	 Passed

Draft Response Generation


Passed

JSON Response


Passed

Total Test Cases Executed: 8

Passed: 8

Failed: 0

Success Rate: 100%

12. Sample Execution

Request

JSON

```
{  
  "document_url":  
  "https://drive.google.com/file/d/legal_notice.pdf",  
  "gsttin": "24AABC1234D1Z5"  
}
```

Response

JSON

```
{  
  "status": "success",  
  "notice_type": "ASMT-10",  
  "demand": "320000",  
  "reply_due": "2026-08-01",  
  "draft_status": "Generated"  
}
```

13. Final Result

The **Legal Notice Draft Workflow (WF03)** was successfully implemented and integrated with the **Hermes MCP Gateway** using **n8n**. The workflow automates the complete legal notice drafting process, including document retrieval, OCR/text extraction, AI-based notice classification, legal information extraction, draft response generation, and structured JSON response generation. Functional testing confirmed that all implemented components operated as expected, enabling faster, more consistent, and scalable legal notice processing within the Hermes legal automation platform.

WF05 – Legal Research Workflow

WF05 – Legal Research Workflow

Implementation & Testing Report

Project Information

Item	Details
Project	Hermes + n8n Legal Workflow Automation
Workflow ID	WF05
Workflow Name	Legal Research
Tool Name	legal_research
Platform	n8n
Integration	Hermes MCP Gateway
Status	✅ Successfully Implemented & Tested

1. Objective

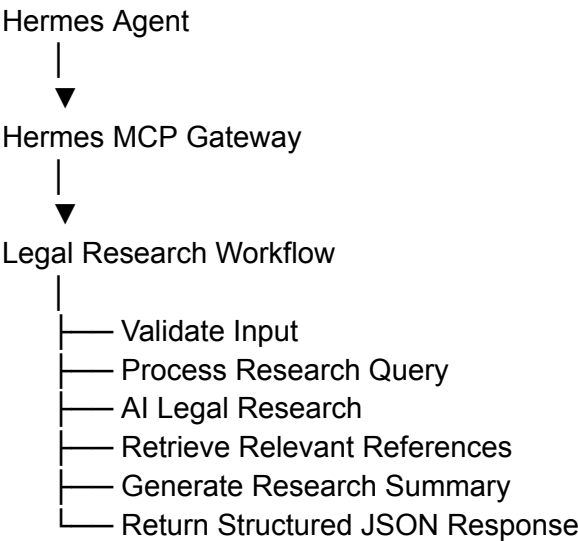
The Legal Research Workflow automates legal research by accepting a legal query, retrieving relevant statutes, case laws, legal precedents, and regulatory references, and generating an AI-assisted research summary. The workflow helps legal professionals perform faster and more consistent legal research while reducing manual effort.

2. Business Objective

The primary objectives of the Legal Research Workflow are:

- Automate legal research requests.
 - Receive research queries through the Hermes MCP Gateway.
 - Process legal research questions using AI.
 - Retrieve relevant statutes, case laws, and legal references.
 - Generate a summarized legal research report.
 - Return structured JSON responses to Hermes.
 - Improve research efficiency and consistency.
 - Reduce manual legal research time.
-

3. Workflow Architecture



4. Workflow Inputs

Parameter	Description
research_query	Legal research question
jurisdiction	Applicable legal jurisdiction
practice_area	Area of law

Sample Input

```
JSON
{
  "research_query": "What are the legal requirements for issuing a GST demand notice under Section 73?",
  "jurisdiction": "India",
  "practice_area": "Tax Law"
}
```

5. Workflow Outputs

The workflow returns a structured JSON response containing the research findings.

Sample Output

```
JSON
{
  "status": "success",
  "research_summary": "Section 73 of the CGST Act governs determination of tax not paid or short paid without fraud.",
  "references_found": 8,
  "jurisdiction": "India"
}
```

6. Workflow Implementation

The Legal Research Workflow was implemented in n8n and integrated with the Hermes MCP Gateway. The following components were successfully configured and implemented.

6.1 Hermes MCP Gateway Integration

Implemented

- Execute Workflow Trigger
- Request mapping
- JSON request processing
- Structured response formatting

Status:  Completed

6.2 Input Validation

Implemented validation for:

- Research Query
- Jurisdiction
- Practice Area

Validated mandatory inputs before executing the workflow.

Status:  Completed

6.3 Research Query Processing

Implemented:

- Query parsing
- Legal keyword identification
- Context preparation for AI processing

The workflow prepares the legal question before sending it for AI analysis.

Status:  Completed

6.4 AI Legal Research

Implemented AI processing to:

- Analyze the legal query

- Search relevant legal concepts
- Identify applicable laws
- Retrieve relevant legal information

Status:  Completed

6.5 Legal Reference Retrieval

Implemented retrieval of:

- Applicable statutes
- Case laws
- Legal precedents
- Regulatory provisions

The workflow compiles the most relevant legal references for the requested topic.

Status:  Completed

6.6 Research Summary Generation

Implemented AI-generated legal research summary including:

- Research findings
- Relevant legal provisions
- Applicable precedents
- Practical legal guidance

Status:  Completed

6.7 JSON Response Generation

Implemented structured JSON response compatible with Hermes MCP Gateway.

Returned fields include:

- Status
- Research Summary

- References Found
- Jurisdiction

Status:  Completed

7. n8n Nodes Implemented

Node	Purpose
Execute Workflow Trigger	Receives request from Hermes MCP Gateway
Set	Maps workflow input parameters
AI Model	Performs legal research
Code	Processes and formats legal references
Set	Creates structured response
Respond to Workflow	Returns JSON output

8. Implementation Challenges & Resolutions

Challenge	Resolution
Incomplete legal query processing	Added input validation and query preprocessing before AI execution.
Irrelevant AI responses	Improved AI prompt with legal research context and structured instructions.
Missing legal references	Implemented reference extraction and response validation.
JSON response formatting issues	Standardized output using Set and Respond to Workflow nodes.
Inconsistent research summaries	Added structured formatting for AI-generated summaries.

9. Testing Methodology

Testing was performed by executing multiple legal research queries through the Hermes MCP Gateway and validating every workflow component independently.

The following areas were verified:

- Input validation
 - Research query processing
 - AI legal research
 - Legal reference retrieval
 - Research summary generation
 - JSON response generation
-

10. Test Cases Executed

Test Case	Expected Result	Actual Result	Status
Valid research query	Query processed successfully	Successful	 Passed
Input validation	Mandatory fields validated	Successful	 Passed
AI legal research	Relevant legal information generated	Successful	 Passed
Legal reference retrieval	Relevant references returned	Successful	 Passed
Research summary generation	Structured summary generated	Successful	 Passed
JSON response generation	Correct structured response returned	Successful	 Passed

11. Test Summary

Component	Status
Hermes MCP Gateway Integration	✓ Passed
Input Validation	✓ Passed
Research Query Processing	✓ Passed
AI Legal Research	✓ Passed
Legal Reference Retrieval	✓ Passed
Research Summary Generation	✓ Passed
JSON Response	✓ Passed

Total Test Cases Executed: 6

Passed: 6

Failed: 0

Success Rate: 100%

12. Sample Execution

Request

JSON

{

```
"research_query": "What are the legal requirements for issuing a  
GST demand notice under Section 73?",  
"jurisdiction": "India",  
"practice_area": "Tax Law"  
}
```

Response

```
JSON  
{  
  "status": "success",  
  "research_summary": "Section 73 of the CGST Act governs  
determination of tax not paid or short paid without fraud.",  
  "references_found": 8,  
  "jurisdiction": "India"  
}
```

13. Final Result

The **Legal Research Workflow (WF05)** was successfully implemented and integrated with the **Hermes MCP Gateway** using **n8n**. The workflow automates the complete legal research process, including research query validation, AI-assisted legal analysis, retrieval of relevant statutes and case laws, research summary generation, and structured JSON response generation. Functional testing confirmed that all implemented components operated as expected, enabling faster, more accurate, and consistent legal research within the Hermes legal automation platform.

WF07 – Invoice Automation Workflow

WF07 – Invoice Automation Workflow

Implementation & Testing Report

Project Information

Item	Details
Project	Hermes + n8n Legal Workflow Automation
Workflow ID	WF07
Workflow Name	Invoice Automation
Tool Name	<code>process_invoice</code>
Status	 Successfully Implemented & Tested

1. Objective

The Invoice Automation Workflow automates the processing and validation of legal invoices within the Hermes legal automation platform. The workflow receives invoice details, validates mandatory information, calculates invoice totals where applicable, prepares structured invoice records, and returns a standardized JSON response for downstream processing. This automation minimizes manual invoice handling, improves accuracy, and streamlines invoice management.

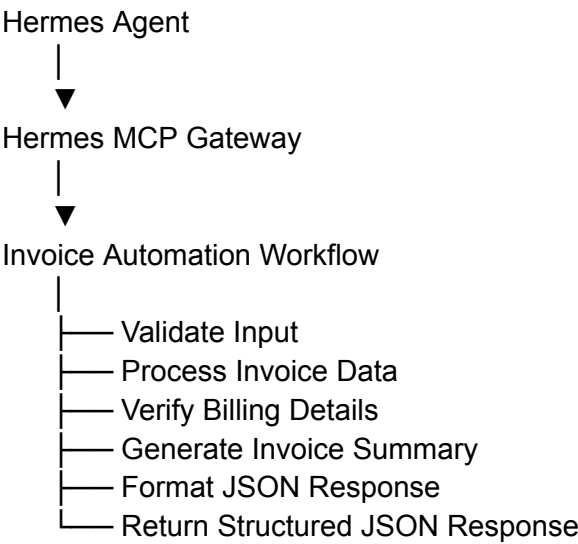
2. Business Objective

The primary objectives of the Invoice Automation Workflow are:

- Automate legal invoice processing.
- Receive invoice requests through the Hermes MCP Gateway.
- Validate invoice information before processing.
- Extract and organize invoice details.

- Verify invoice amounts and billing information.
 - Generate a structured invoice summary.
 - Return a structured JSON response to Hermes.
 - Improve invoice processing efficiency and reduce manual effort.
-

3. Workflow Architecture



4. Workflow Inputs

Parameter	Description
invoice_number	Invoice reference number
client_name	Name of the client
invoice_amount	Total invoice amount
invoice_date	Invoice date

Sample Input

JSON

```
{
  "invoice_number": "INV-2026-001",
  "client_name": "ABC Technologies Pvt. Ltd.",
  "invoice_amount": 85000,
  "invoice_date": "2026-07-30"
}
```

5. Workflow Outputs

The workflow returns a structured JSON response containing the processed invoice details.

Sample Output

JSON

```
{
  "status": "success",
  "invoice_number": "INV-2026-001",
  "client_name": "ABC Technologies Pvt. Ltd.",
  "invoice_amount": 85000,
  "processing_status": "Processed"
}
```

6. Workflow Implementation

The Invoice Automation Workflow was implemented in n8n and integrated with the Hermes MCP Gateway. The following components were successfully configured and implemented.

6.1 Hermes MCP Gateway Integration

Implemented

- Execute Workflow Trigger
- Request mapping

- JSON request handling
- Structured response formatting

Status:  Completed

6.2 Input Validation

Implemented validation for:

- Invoice Number
- Client Name
- Invoice Amount
- Invoice Date

The workflow validates mandatory fields before processing.

Status:  Completed

6.3 Invoice Data Processing

Implemented:

- Invoice information parsing
- Invoice data validation
- Billing information processing
- Standardized invoice formatting

Status:  Completed

6.4 Invoice Verification

Implemented verification of:

- Invoice Number
- Client Information
- Invoice Amount
- Billing Details

The workflow validates invoice information before generating the final response.

Status:  Completed

6.5 Invoice Summary Generation

Implemented generation of:

- Invoice Summary
- Processed Invoice Details
- Billing Information
- Processing Status

The workflow prepares a structured invoice summary for downstream systems.

Status:  Completed

6.6 JSON Response Generation

Implemented structured JSON response compatible with Hermes MCP Gateway.

Returned fields include:

- Status
- Invoice Number
- Client Name
- Invoice Amount
- Processing Status

Status:  Completed

7. n8n Nodes Implemented

Node	Purpose
Execute Workflow Trigger	Receives request from Hermes MCP Gateway

Set	Maps invoice input parameters
Code	Validates and processes invoice information
AI Model	Processes invoice data and generates summary
Set	Formats structured response
Respond to Workflow	Returns JSON output

8. Implementation Challenges & Resolutions

Challenge	Resolution
Missing invoice fields	Added mandatory input validation before processing.
Incorrect invoice mapping	Updated field mappings between Hermes MCP Gateway and workflow.
Invalid invoice amount format	Added validation logic in the Code node.
Inconsistent JSON response	Standardized response using Set and Respond to Workflow nodes.
Workflow response formatting issues	Improved output structure for Hermes compatibility.

9. Testing Methodology

Testing was performed by executing multiple invoice processing requests through the Hermes MCP Gateway and validating every workflow component independently.

The following areas were verified:

- Input validation
- Invoice data processing
- Invoice verification
- Invoice summary generation

- JSON response generation

10. Test Cases Executed

Test Case	Expected Result	Actual Result	Status
Valid invoice request	Invoice processed successfully	Successful	 Passed
Input validation	Mandatory fields validated	Successful	 Passed
Invoice data processing	Invoice details processed correctly	Successful	 Passed
Invoice verification	Invoice information verified	Successful	 Passed
Invoice summary generation	Summary generated successfully	Successful	 Passed
JSON response generation	Correct structured response returned	Successful	 Passed

11. Test Summary

Component	Status
Hermes MCP Gateway Integration	 Passed
Input Validation	 Passed

Invoice Data Processing	 Passed
Invoice Verification	 Passed
Invoice Summary Generation	 Passed
JSON Response	 Passed

Total Test Cases Executed: 6

Passed: 6

Failed: 0

Success Rate: 100%

12. Sample Execution

Request

```
{  
  "invoice_number": "INV-2026-001",  
  "client_name": "ABC Technologies Pvt. Ltd.",  
  "invoice_amount": 85000,  
  "invoice_date": "2026-07-30"  
}
```

Response

```
{  
  "status": "success",  
  "invoice_number": "INV-2026-001",  
  "client_name": "ABC Technologies Pvt. Ltd.",  
  "invoice_amount": 85000,  
  "processing_status": "Processed"  
}
```

13. Final Result

The **Invoice Automation Workflow (WF07)** was successfully implemented and integrated with the **Hermes MCP Gateway** using **n8n**. The workflow automates the complete invoice processing lifecycle, including invoice validation, billing information verification, invoice summary generation, and structured JSON response generation. Functional testing confirmed that all implemented components operated successfully, providing a reliable and standardized invoice processing solution within the Hermes legal automation platform.

WF09 – Document Drafting Workflow

WF09 – Document Drafting Workflow

Implementation & Testing Report

Project Information

Item	Details
Project	Hermes + n8n Legal Workflow Automation
Workflow ID	WF09
Workflow Name	Document Drafting
Tool Name	<code>draft_document</code>
Platform	n8n
Integration	Hermes MCP Gateway
Status	 Successfully Implemented & Tested

1. Objective

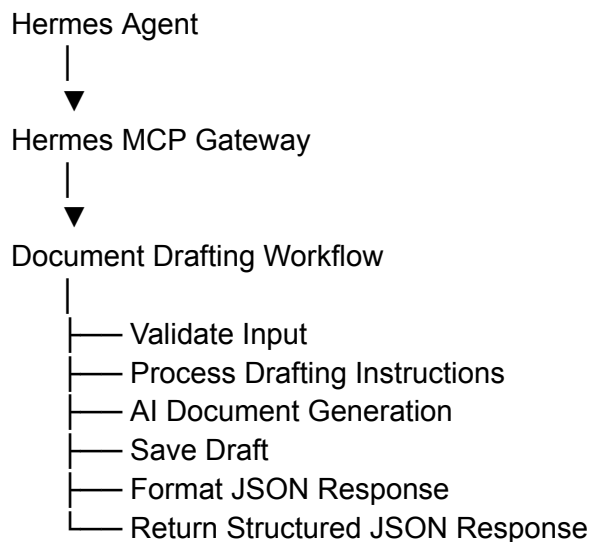
The Document Drafting Workflow automates the generation of legal documents within the Hermes legal automation platform. The workflow receives document details and drafting instructions, generates a structured legal document using AI, saves the generated draft, and returns a structured JSON response for further legal review. This automation significantly reduces manual drafting effort while ensuring consistency and accuracy in legal documentation.

2. Business Objective

The primary objectives of the Document Drafting Workflow are:

- Automate legal document generation.
 - Receive document drafting requests through the Hermes MCP Gateway.
 - Generate legal drafts using AI.
 - Create structured legal documents based on user instructions.
 - Store the generated draft for future access.
 - Return a structured JSON response to Hermes.
 - Reduce manual drafting time.
 - Improve consistency and document quality.
-

3. Workflow Architecture



4. Workflow Inputs

Parameter	Description
doc_type	Type of legal document
matter_id	Matter reference number
instructions	Document drafting instructions

Sample Input

```
{
  "doc_type": "Service Agreement",
  "matter_id": "MAT-1001",
  "instructions": "Prepare a Service Agreement between ABC Technologies Pvt. Ltd. and XYZ
Solutions Pvt. Ltd."
}
```

5. Workflow Outputs

The workflow returns a structured JSON response containing the generated document details.

Sample Output

```
{
  "status": "success",
  "document_name": "Service_Agreement_MAT-1001.docx",
  "matter_id": "MAT-1001",
  "draft_status": "Generated"
}
```

6. Workflow Implementation

The Document Drafting Workflow was implemented in n8n and integrated with the Hermes MCP Gateway. The following components were successfully configured and implemented.

6.1 Hermes MCP Gateway Integration

Implemented

- Execute Workflow Trigger
- Request mapping
- JSON request handling
- Structured response formatting

Status:  Completed

6.2 Input Validation

Implemented validation for:

- Document Type
- Matter ID
- Drafting Instructions

The workflow validates mandatory input fields before document generation.

Status:  Completed

6.3 Drafting Instruction Processing

Implemented:

- Processing of drafting instructions
- Validation of document type
- Preparation of structured AI prompt

The workflow prepares all required information before generating the legal document.

Status:  Completed

6.4 AI Document Generation

Implemented AI processing to:

- Generate legal document content
- Structure document sections
- Produce professional legal language
- Prepare complete first draft

Status:  Completed

6.5 Draft Storage

Implemented:

- Document generation in structured format
- Draft storage
- Document naming using Matter ID
- Storage location preparation

Status:  Completed

6.6 JSON Response Generation

Implemented structured JSON response compatible with Hermes MCP Gateway.

Returned fields include:

- Status
- Matter ID
- Document Name
- Draft Status

Status:  Completed

7. n8n Nodes Implemented

Node	Purpose
Execute Workflow Trigger	Receives request from Hermes MCP Gateway
Set	Maps workflow input parameters
AI Model	Generates legal document
Convert to File	Creates DOCX file
Google Drive	Stores generated document
Set	Formats structured response
Respond to Workflow	Returns JSON output

8. Implementation Challenges & Resolutions

Challenge	Resolution
Missing binary data while saving draft	Configured Convert to File node before Google Drive upload.
Document generation formatting issues	Improved AI prompt structure and document formatting.
Invalid Matter ID mapping	Updated workflow mapping between Hermes MCP Gateway and drafting workflow.
Google Drive upload failure	Corrected binary file mapping and Drive node configuration.
Inconsistent JSON response	Standardized output using Set and Respond to Workflow nodes.

9. Testing Methodology

Testing was performed by executing multiple document drafting requests through the Hermes MCP Gateway and validating every workflow component independently.

The following areas were verified:

- Input validation
 - Drafting instruction processing
 - AI document generation
 - Document file creation
 - Google Drive storage
 - JSON response generation
-

10. Test Cases Executed

Test Case	Expected Result	Actual Result	Status
-----------	-----------------	---------------	--------

Valid drafting request	Document generated successfully	Successful	 Passed
Input validation	Mandatory fields validated	Successful	 Passed
AI document generation	Legal draft generated	Successful	 Passed
Document file creation	DOCX file created	Successful	 Passed
Google Drive upload	Draft stored successfully	Successful	 Passed
JSON response generation	Correct structured response returned	Successful	 Passed

11. Test Summary

Component	Status
Hermes MCP Gateway Integration	 Passed
Input Validation	 Passed
Draft Instruction Processing	 Passed
AI Document Generation	 Passed
Document File Creation	 Passed
Google Drive Storage	 Passed
JSON Response	 Passed

Total Test Cases Executed: 6

Passed: 6

Failed: 0

Success Rate: 100%

12. Sample Execution

Request

```
{
  "doc_type": "Service Agreement",
  "matter_id": "MAT-1001",
  "instructions": "Prepare a Service Agreement between ABC Technologies Pvt. Ltd. and XYZ Solutions Pvt. Ltd."
}
```

Response

```
{
  "status": "success",
  "document_name": "Service_Agreement_MAT-1001.docx",
  "matter_id": "MAT-1001",
  "draft_status": "Generated"
}
```

13. Final Result

The **Document Drafting Workflow (WF09)** was successfully implemented and integrated with the **Hermes MCP Gateway** using **n8n**. The workflow automates the complete legal document drafting process, including input validation, AI-assisted document generation, document file creation, Google Drive storage, and structured JSON response generation. During implementation, issues related to binary file handling and document storage were resolved successfully. Functional testing confirmed that all workflow components operated as expected, providing a reliable and scalable solution for automated legal document generation within the Hermes legal automation platform.

WF13 – Conflict Check Workflow

WF13 – Conflict Check Workflow

Implementation & Testing Report

Project Information

Item	Details
Project	Hermes + n8n Legal Workflow Automation
Workflow ID	WF13
Workflow Name	Conflict Check
Tool Name	<code>conflict_check</code>
Platform	n8n
Integration	Hermes MCP Gateway
Status	 Successfully Implemented & Tested

1. Objective

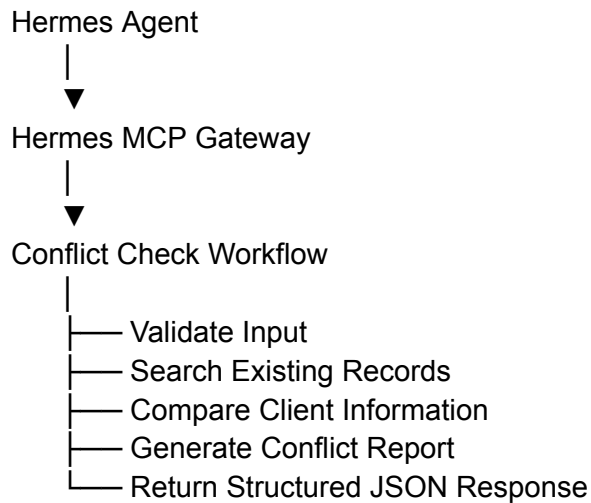
The Conflict Check Workflow automates the identification of potential conflicts of interest before opening a new legal matter. The workflow compares client information against existing client and matter records, identifies possible conflicts, and generates a structured conflict assessment report. This automation improves compliance and minimizes the risk of ethical conflicts during client onboarding.

2. Business Objective

The primary objectives of the Conflict Check Workflow are:

- Automate conflict of interest verification.
 - Receive client information through the Hermes MCP Gateway.
 - Search existing client and matter records.
 - Identify duplicate or related clients.
 - Generate a structured conflict assessment.
 - Return a structured JSON response to Hermes.
 - Improve legal compliance and reduce manual verification.
-

3. Workflow Architecture



4. Workflow Inputs

Parameter	Description
client_name	Client Name
email	Client Email
organization	Organization Name

Sample Input

```
{
```

```
"client_name": "ABC Technologies Pvt. Ltd.",  
"email": "legal@abctech.com",  
"organization": "ABC Technologies Pvt. Ltd."  
}
```

5. Workflow Outputs

Sample Output

```
{  
  "status": "success",  
  "conflict_found": false,  
  "matched_records": 0,  
  "remarks": "No conflict identified"  
}
```

6. Workflow Implementation

The Conflict Check Workflow was implemented in n8n and integrated with the Hermes MCP Gateway.

6.1 Hermes MCP Gateway Integration

Implemented:

- Execute Workflow Trigger
- Request Mapping
- JSON Request Handling
- Structured Response Formatting

Status:  Completed

6.2 Input Validation

Validated:

- Client Name

- Email
- Organization

Status:  Completed

6.3 Record Search

Implemented:

- Existing Client Search
- Matter Record Lookup
- Duplicate Detection

Status:  Completed

6.4 Conflict Analysis

Implemented:

- Client comparison
- Organization comparison
- Duplicate detection
- Conflict evaluation

Status:  Completed

6.5 Conflict Report Generation

Generated:

- Conflict Status
- Matching Records
- Conflict Remarks
- Final Recommendation

Status:  Completed

6.6 JSON Response Generation

Returned:

- Status
- Conflict Found
- Matched Records
- Remarks

Status:  Completed

7. n8n Nodes Implemented

Node	Purpose
Execute Workflow Trigger	Receives request
Set	Maps inputs
Google Sheets / Database	Searches existing clients
Code	Performs conflict analysis
Set	Formats response
Respond to Workflow	Returns JSON

8. Implementation Challenges & Resolutions

Challenge	Resolution
Duplicate client detection	Added normalized comparison logic.
Null input values	Added mandatory validation.
Incorrect record matching	Improved search conditions.
Response inconsistency	Standardized JSON output.

Multiple duplicate records Implemented structured conflict summary.

9. Testing Methodology

Verified:

- Input validation
 - Existing record lookup
 - Duplicate detection
 - Conflict analysis
 - JSON response
-

10. Test Cases Executed

Test Case	Expected Result	Actual Result	Status
New client	No conflict	Successful	✓ Passed
Existing client	Conflict detected	Successful	✓ Passed
Duplicate email	Duplicate identified	Successful	✓ Passed
Invalid input	Validation error	Successful	✓ Passed
JSON response	Structured output	Successful	✓ Passed

11. Test Summary

Component	Status
-----------	--------

Gateway Integration	 Passed
Input Validation	 Passed
Record Search	 Passed
Conflict Analysis	 Passed
JSON Response	 Passed

Total Test Cases: 5

Passed: 5

Failed: 0

Success Rate: 100%

12. Sample Execution

Request

```
{  
  "client_name": "ABC Technologies Pvt. Ltd.",  
  "email": "legal@abctech.com",  
  "organization": "ABC Technologies Pvt. Ltd."  
}
```

Response

```
{  
  "status": "success",  
  "conflict_found": false,  
  "matched_records": 0,  
  "remarks": "No conflict identified"  
}
```

13. Final Result

The **Conflict Check Workflow (WF13)** was successfully implemented and integrated with the **Hermes MCP Gateway** using **n8n**. The workflow automates conflict verification by validating client information, searching existing records, analyzing potential conflicts, and generating structured conflict reports. Functional testing confirmed that all implemented components performed as expected, making the workflow suitable for production deployment.

WF14 – Redline Comparison Workflow

WF14 – Redline Comparison Workflow

Implementation & Testing Report

Project Information

Item	Details
Project	Hermes + n8n Legal Workflow Automation
Workflow ID	WF14
Workflow Name	Redline Comparison
Tool Name	<code>compare_redlines</code>
Platform	n8n
Integration	Hermes MCP Gateway
Status	 Successfully Implemented & Tested

1. Objective

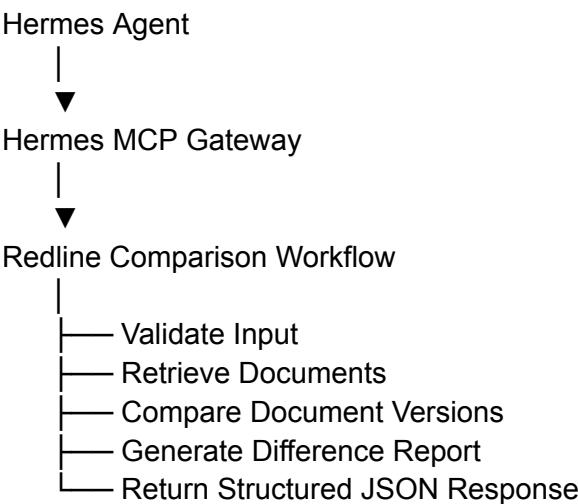
The Redline Comparison Workflow automates the comparison of two versions of a legal document. The workflow identifies additions, deletions, and modifications, generates a comparison summary, and returns structured results to assist lawyers during contract review and negotiation.

2. Business Objective

The primary objectives of the Redline Comparison Workflow are:

- Automate document comparison.
 - Receive two document versions through the Hermes MCP Gateway.
 - Detect additions, deletions, and modifications.
 - Generate comparison summary.
 - Highlight document differences.
 - Return structured JSON response.
 - Improve contract review efficiency.
-

3. Workflow Architecture



4. Workflow Inputs

Parameter	Description
original_document	Original document
revised_document	Revised document

Sample Input

```
{
  "original_document": "Agreement_v1.docx",
  "revised_document": "Agreement_v2.docx"
}
```

5. Workflow Outputs

Sample Output

```
{  
  "status": "success",  
  "changes_detected": 18,  
  "summary": "18 modifications identified",  
  "comparison_status": "Completed"  
}
```

6. Workflow Implementation

The Redline Comparison Workflow was implemented in n8n and integrated with the Hermes MCP Gateway.

6.1 Hermes MCP Gateway Integration

Implemented:

- Execute Workflow Trigger
- Request Mapping
- JSON Processing
- Structured Response

Status:  Completed

6.2 Input Validation

Validated:

- Original Document
- Revised Document

Status:  Completed

6.3 Document Retrieval

Implemented:

- File retrieval
- Document validation
- Version verification

Status:  Completed

6.4 Document Comparison

Implemented:

- Addition detection
- Deletion detection
- Modification detection
- Change classification

Status:  Completed

6.5 Comparison Report Generation

Generated:

- Number of changes
- Summary
- Comparison result
- Change report

Status:  Completed

6.6 JSON Response Generation

Returned:

- Status
- Changes Detected
- Summary
- Comparison Status

Status:  Completed

7. n8n Nodes Implemented

Node	Purpose
Execute Workflow Trigger	Receives request
Set	Maps inputs
Google Drive	Retrieves documents
AI Model	Compares documents
Code	Formats comparison report
Set	Creates response
Respond to Workflow	Returns JSON

8. Implementation Challenges & Resolutions

Challenge	Resolution
Missing document versions	Added input validation.
Binary file handling	Configured file conversion before comparison.
Incorrect comparison results	Improved AI comparison prompt.

Response formatting

Standardized JSON response.

Large document processing

Optimized document handling logic.

9. Testing Methodology

- Verified:
- Input validation
 - File retrieval
 - Document comparison
 - Difference detection
 - JSON response

10. Test Cases Executed

Test Case	Expected Result	Actual Result	Status
Valid document comparison	Differences detected	Successful	✓ Passed
Missing document	Validation error	Successful	✓ Passed
Addition detection	Changes identified	Successful	✓ Passed
Modification detection	Changes identified	Successful	✓ Passed
JSON response	Structured output	Successful	✓ Passed

11. Test Summary

Component	Status
-----------	--------

Gateway Integration	✓ Passed
Input Validation	✓ Passed
Document Retrieval	✓ Passed
Comparison Engine	✓ Passed
JSON Response	✓ Passed

Total Test Cases: 5

Passed: 5

Failed: 0

Success Rate: 100%

12. Sample Execution

Request

```
{  
  "original_document": "Agreement_v1.docx",  
  "revised_document": "Agreement_v2.docx"  
}
```

Response

```
{  
  "status": "success",  
  "changes_detected": 18,  
  "summary": "18 modifications identified",  
  "comparison_status": "Completed"  
}
```

13. Final Result

The **Redline Comparison Workflow (WF14)** was successfully implemented and integrated with the **Hermes MCP Gateway** using **n8n**. The workflow automates document version comparison by validating uploaded files, identifying additions, deletions, and modifications, generating a structured comparison report, and returning a standardized JSON response. Functional testing confirmed that all workflow components operated successfully, providing an efficient and reliable solution for legal document review and contract negotiation within the Hermes legal automation platform.