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**📄 API Documentation**

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**Last Updated:** 22 July 2025

**🖥️ Server Information**

| **Server Name** | **Purpose** | **OS & Specs** | **IP/Domain** |
| --- | --- | --- | --- |
| Yotta GPU Server | Ollama Deployed here | Ubuntu 22.04, NVIDIA A100 | 43.242.38.49 |
| 20tb Ubuntu Server | 20TB storage + API Deployment | Ubuntu 22.04, 20TB HDD | 103.94.56.137 |

**🔐 Authentication**

* **Auth Type:** None

**📋 API Summary**

|  |  |
| --- | --- |
| **IP/Domain** | **Environment Activation** |
| 43.242.38.49 |  |
| 103.94.56.137 | source /data/Deployment/venv/bin/activate |

| **#** | **API Name** | **Server** | **Method** | **Endpoint** |
| --- | --- | --- | --- | --- |
| 1 | Simplified Report - ChatGPT Integration | 103.94.56.137 | POST | /api/get\_file |
| 2 | Simplified Report - ChatGPT Integration | 103.94.56.137 | POST | /api/chat |
| 3 | Simplified Report - ChatGPT Integration | 103.94.56.137 | POST | /api/end\_chat |
| 4 | ChatGPT in Generic Project | 103.94.56.137 | POST | /api/generic/start\_chat |
| 5 | MRI Relative links code | 103.94.56.137 | POST | /api/get-related-links |
| 6 | Gender Flags - Medimaze PACS | 103.94.56.137 | POST | /api/get-prohibited-keywords |
| 7 | Symptoms Disease Prediction | 103.94.56.137 | POST | /api/clinical-analysis |
| 8 | Machine Protocol With ERP | 43.242.38.49 | POST | /commonutils/get-protocol |
| 9 | SENTIMENT ANALYSER (NORMAL/ABNORMAL) | 43.242.38.49 | POST | /commonutils/analyser-sentiment |
| 10 | Generate Tags - Report Tagging | 43.242.38.49 | POST | /commonutils/generate-tags |
| 11 | Part Teller - Report Body Part | 43.242.38.49 | POST | /commonutils/part-teller |

## ✅ API Summary Table

| **#** | **Endpoint** | **Method** | **Description** |
| --- | --- | --- | --- |
| 1 | https://aitools.medimaze.in/api/get\_file | POST | Uploads a file (PDF/HTML), extracts content, removes personal info, and simplifies the report using LLM. |
| 2 | https://aitools.medimaze.in/api/chat | POST | Accepts follow-up questions on the report and responds contextually using LLM. |
| 3 | https://aitools.medimaze.in/api/end\_chat | POST | Ends an ongoing chat session and clears memory. |
| 4 | https://aitools.medimaze.in/api/generic/start\_chat | POST | Starts a general ChatGPT-based session for open questions (non-clinical). |
| 5 | https://aitools.medimaze.in/api/get-related-links | POST | Extracts relevant MRI protocol URLs based on the input query. |
| 6 | https://aitools.medimaze.in/api/get-prohibited-keywords | POST | Based on gender input, returns gender-specific blocked keywords for PACS reporting. |
| 7 | https://aitools.medimaze.in/api/clinical-analysis | POST | Analyzes clinical inputs and predicts possible symptoms or conditions. |
| 8 | https://ai.medimaze.in/commonutils/get-protocol | POST | Streams machine protocol content based on input; used with ERP system. |
| 9 | https://ai.medimaze.in/commonutils/analyser-sentiment | POST | Uploads a PDF/HTML report and classifies it as Normal or Abnormal. |
| 10 | https://ai.medimaze.in/commonutils/generate-tags | POST | Accepts an impression string and returns relevant report tags. |
| 11 | https://ai.medimaze.in/commonutils/part-teller | POST | Extracts body part(s) from impression text using AI. |

## 📥📤 API Details with Inputs & Outputs

### 1. /api/get\_file

**Method:** POST  
**Description:** Uploads a medical file (PDF or HTML), extracts text, removes personal details, and simplifies it using LLM.

**Input:**

* file: File (PDF or HTML) (Multipart form-data)
* preferred\_language: String (Form field, e.g., "English")

**Output:**

{

"session\_id": "<generated-uuid>",

"text": "<simplified\_report>"

}

### 2. /api/chat

**Method:** POST  
**Description:** Sends a user message (question) related to the uploaded report. The API uses previous chat context and simplified report to respond.

**Input:**

{

"session\_id": "<uuid-from-get\_file>",

"message": "<user's question>"

}

**Output:**

{

"response": "<answer from LLM>"

}

### 3. /api/end\_chat

**Method:** POST  
**Description:** Ends the current chat session and clears all stored context.

**Input:**

{

"session\_id": "<uuid-from-get\_file-or-start\_chat>"

}

**Output:**

{

"message": "Chat session ended successfully."

}

### 4. /api/generic/start\_chat

**Method:** POST  
**Description:** Starts a general-purpose ChatGPT session unrelated to medical reports.

**Input:**

{

"question": "<initial prompt>"

}

**Output:**

{

"session\_id": "<generated-uuid>",

"text": "<LLM response>"

}

### 5. /api/get-related-links

**Method:** POST  
**Description:** Accepts a query string and returns related MRI machine protocol links. Only works for "MRI" queries.

**Input:**

{

"query": "brain MRI protocol for epilepsy"

}

**Output (if MRI matched):**

{

"relevant\_links": [

"https://example.com/protocol1",

"https://example.com/protocol2"

]

}

**Output (if CT):**

{

"message": null

}

### 6. /api/get-prohibited-keywords

**Method:** POST  
**Description:** Based on gender input, returns flagged words inappropriate for use in reports.

**Input (as Query Parameter):**

gender=male or female

**Output:**

{

"blockedKeywords": ["she", "pregnant", "ovary", ...]

}

### 7. /api/clinical-analysis

**Method:** POST  
**Description:** Accepts multiple clinical parameters and returns possible symptom predictions or conditions.

**Input Example:**

{

"age": 45,

"temperature": 102,

"pulse\_rate": 95,

"respiration\_rate": 22,

"blood\_pressure": "140/90",

"notes": "Patient reports chest tightness and fatigue."

}

**Output:**

{

"status": "success",

"analysis": [

"Possible fever-related fatigue",

"Monitor for respiratory infection"

]

}

**8. /commonutils/get-protocol**

**Method:** POST  
**Description:**  
Streams machine protocol details (e.g., scan instructions) based on input keywords or modality. Used within ERP systems.

**Input:**

{

"input": "brain mri epilepsy"

}

**Output:**

* **StreamingResponse** with plain text content.
* Response streamed in chunks (used in frontend auto-scroll viewers or terminals).

**Example (text streamed):**

MRI Brain Epilepsy Protocol:

1. Axial T2

2. Axial FLAIR

3. Coronal T1...

**9. /commonutils/analyser-sentiment**

**Method:** POST  
**Description:**  
Accepts a PDF or HTML radiology report, extracts the impression section, and classifies it as **Normal** or **Abnormal**.

**Input:**

* file: application/pdf or text/html (Multipart form-data)

**Output:**

{

"sentiment": "Abnormal"

}

**10. /commonutils/generate-tags**

**Method:** POST  
**Description:** Generates keywords/tags based on the impression text from a radiology report. Helps with report search, indexing, or auto-labeling.

**Input:**

{

"impression": "There is a small right-sided pleural effusion noted."

}

**Output:**

{

"tags": ["pleural effusion", "right lung", "fluid"]

}

**11. /commonutils/part-teller**

**Method:** POST  
**Description:** Detects and returns body part(s) mentioned in the impression of a radiology report.

**Input:**

{

"impression": "CT scan shows consolidation in the left lower lobe."

}

**Output:**

{

"tags": ["lung", "left lower lobe"]

}

**📁** File & Data Paths

| **Server** | **Data Type** | **Path** |
| --- | --- | --- |
| GPU Server | Ollama Models | /home/ubuntu/Medimaze\_AI/commonutils |
| 20TB Server | Deployment Files | /data/Deployment/commonutils/ |