🩺 Rare Disease Medical Terminology Simplification Chatbot Scenario Package

📖 Scenario Background

In Halifax, Nova Scotia, patients and families affected by rare diseases often receive complex medical reports filled with unfamiliar terms and abbreviations. Understanding these reports is essential for informed decision-making and reducing anxiety. Resources such as Orphanet, Rare Disease Foundation Canada, and hospital patient education materials provide plain-language explanations of rare disease terminology and support options. This scenario asks students to use the **Ollama + AnythingLLM** stack, combined with locally available, authoritative health education materials, to design a chatbot for **Rare Disease Medical Terminology Simplification**.

🎯 Scenario Goals

- Help users understand complex medical terms related to rare diseases
- Provide clear, plain-language definitions and links to reliable support resources
- Clearly communicate that the chatbot does **not** provide professional medical diagnoses

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🗂️ Recommended Knowledge Base Materials

Students should collect and organize **retrievable, structured** local health education materials to serve as their RAG knowledge base. Recommended sources include:

- Orphanet – Rare Disease Summaries and Glossaries
- Rare Disease Foundation Canada – Patient-Friendly Resources
- Hospital Genetic Counseling Handouts
- Nova Scotia Health – Plain-Language Explanations for Complex Terms
- Any relevant local clinic or patient advocacy group materials

> 📌 **Requirement:** Upload as PDF, Markdown, or plain text, using general, consistent file names such as:
>
> - `knowledge_document_1.pdf`
> - `knowledge_document_2.md`
> - `knowledge_document_3.txt`

🎯 Suggested User Questions for Testing

Your final system must be able to answer these scenario questions using your uploaded knowledge base materials:

- **Question 1:** "My genetic test says 'Gaucher disease'—what is that?"
- **Question 2:** "Are there any support groups for rare diseases in Nova Scotia?"

Suggested GitHub Repository Structure

All project deliverables must be **uploaded to a GitHub Repository**. Recommended folder structure:

```
/cold-flu-chatbot
├─ knowledge_base/
│  ├─ knowledge_document_1.pdf
│  ├─ knowledge_document_2.md
│  └─ knowledge_document_3.txt
├─ prompt/
│  └─ system_prompt.txt
├─ documentation/
│  └─ scenario_pack.md (Provided)
│  └─ use_case_description.md
├─ demo/
│  ├─ demo_video.mp4
│  └─ chat_transcript.txt
└─ README.md
```

Deliverables

- **Knowledge Base**
  - Include all documents actually used in AnythingLLM
  - Must be clearly structured and named using the general format above
- **System Prompt**
  - Defines the chatbot role, tone, scope, and ethical disclaimers
- **Use Case Description**
  - A clear document that identifies user pain points and success criteria.
- **Demo Materials**
  - Screen recording or video showing chatbot responses to the core scenario questions
  - Chat transcript
- **README.md**
  - Brief project overview
  - Local deployment/testing instructions
  - Author(s) and date

⚠ Important Notes

- All materials must be uploaded to a **public or private GitHub Repository** for review
- The project is for **educational research use only** and must not be used for real diagnosis or treatment

- The chatbot README.md file must **prominently display a "Not Medical Diagnosis" disclaimer**