Preoperative Fasting and Medication Adjustment Guidance Chatbot Scenario Package

Scenario Background

In Halifax, Nova Scotia, patients scheduled for surgery must follow specific instructions about fasting (NPO guidelines) and adjusting medications to reduce risks during anesthesia. Misunderstanding these instructions can lead to surgery cancellations or complications. Nova Scotia Health and Canadian anesthesiology organizations provide clear patient education materials on fasting times and medication management. This scenario asks students to use the **Ollama + AnythingLLM** stack, combined with locally available, authoritative health education materials, to design a chatbot for **Preoperative Fasting and Medication Adjustment Guidance**.

& Scenario Goals

- Help users understand preoperative fasting (NPO) instructions
- Guide users on safe adjustments to regular medications before surgery
- Clearly communicate that the chatbot does **not** provide professional medical diagnoses and cannot replace personalized instructions from surgical teams

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:

- Nova Scotia Health Preoperative Fasting Guidelines
- Canadian Anesthesiologists' Society Patient Instructions
- Hospital Surgical Preparation Instructions
- Medication Adjustment Charts for Surgery
- Any relevant local clinic or hospital resources

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 surgery is at 8 a.m.—when should I stop eating and drinking?"
- Question 2: "Do I need to stop taking my aspirin before surgery?"

Suggested GitHub Repository Structure

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

Deliverables

Knowledge Base

- o 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

• 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