

## **Task: Building an Appointment Booking Agent**

Your task is to develop an AI-powered chatbot that automates the process of booking and retrieving appointment details. The chatbot should be able to understand natural language queries, extract relevant details from user prompts, store appointment information in a database, and retrieve appointment details upon request.

### **Key Features & Requirements:**

#### **1. Appointment Booking:**

- The user should be able to chat with the bot and book an appointment by specifying a date, time, and any other necessary details.
- The bot should extract relevant details from the user's prompt and store them in a structured format in an SQL database.

#### **2. Appointment Retrieval:**

- If a user asks about their scheduled appointment, the bot should query the database, retrieve the stored appointment details, and provide them in a clear response.
- The bot should handle different ways a user might ask for their appointment (e.g., "Do I have an appointment tomorrow?" or "When is my next appointment?").

#### **3. Database Integration:**

- Use an SQL-based database to store and manage appointment records.
- Ensure proper data handling to avoid duplicate bookings or missing information.

#### **4. Chatbot Development:**

- Implement natural language processing (NLP) to extract appointment details from user input.
- The chatbot should be user-friendly and capable of handling errors gracefully (e.g., if a user provides incomplete details, prompt them for missing information).

### **Deliverables:**

- A minimalist simple UI where I can chat with chatbot and book my appointment and take info about my appointment.

In case of any question, please let me know 😊