


# Automated Health Clinic Management - Week 2


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# Project Overview

- Main task:  
Transitioning a health clinic from paper-based to digital records.
  - Week 2 objective:  
Add the MedicalRecord class to the program.  
Implement JSON file integration for data persistence.
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# Features:

- **Patient Management:**
  - Register and view patients.
  - **Appointment Booking:**
  - Schedule and check appointments.
  - **Medical Records:**
  - Add and view patient medical history.
  - **File Storage:**
  - Save all data into JSON file.
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# Key functions

- Register Doctor :

URL: `/register_doctor?name=maomao&specialty=internal&contactInfo=123456`

- Register Patient:

URL: `/register?name=Abdellah&address=123MainStreet&medicalHistory=Asthma&doctorId=1`

- Book Appointment:

URL: `/book_appointment?patientId=1&date=2024-12-15&time=11:00`

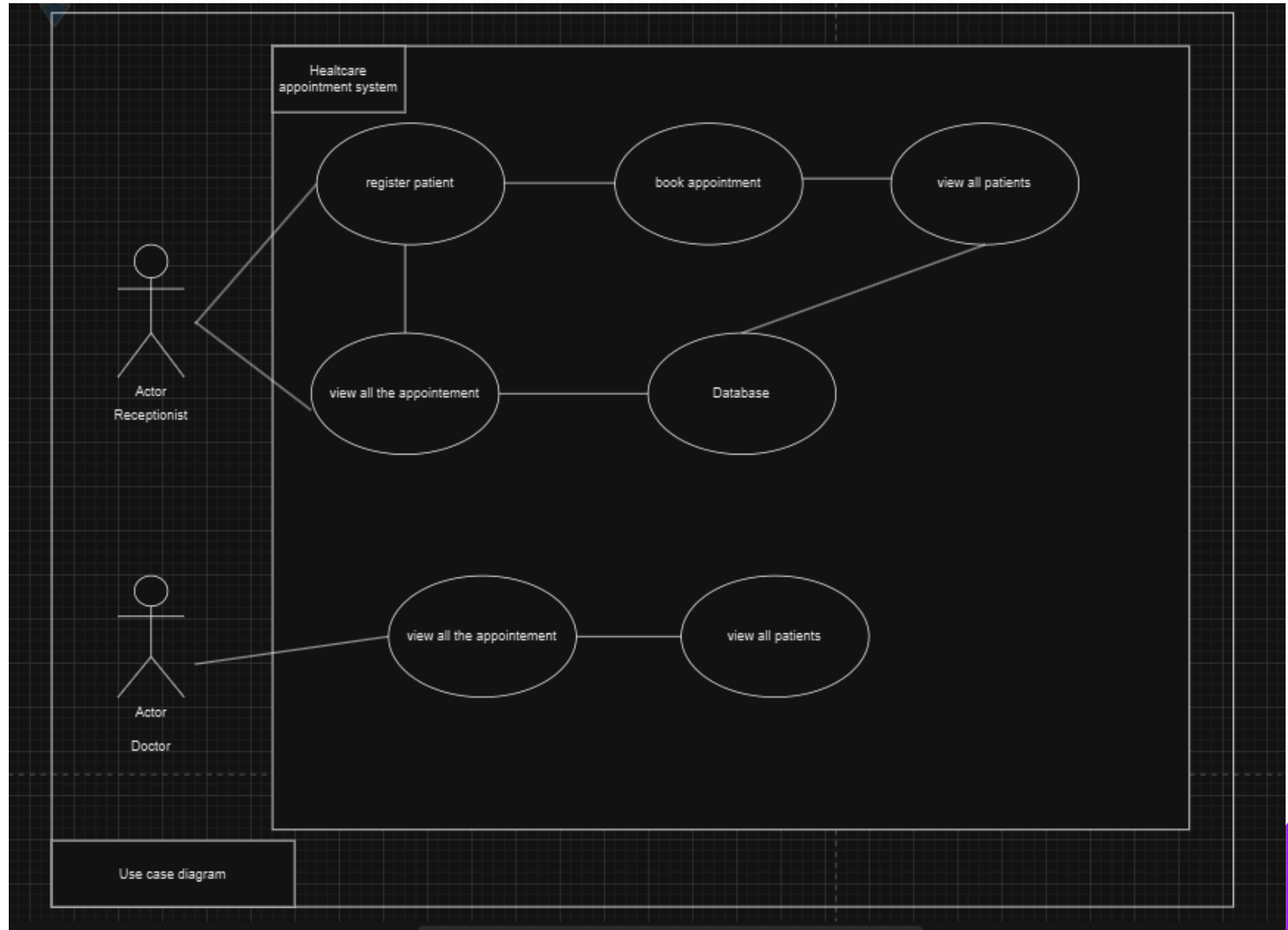
- Add Medical Record:

URL: `/add_record?patientId=1&visitDate=2024-12-15&notes=RoutineCheckup&diagnosis=Healthy`

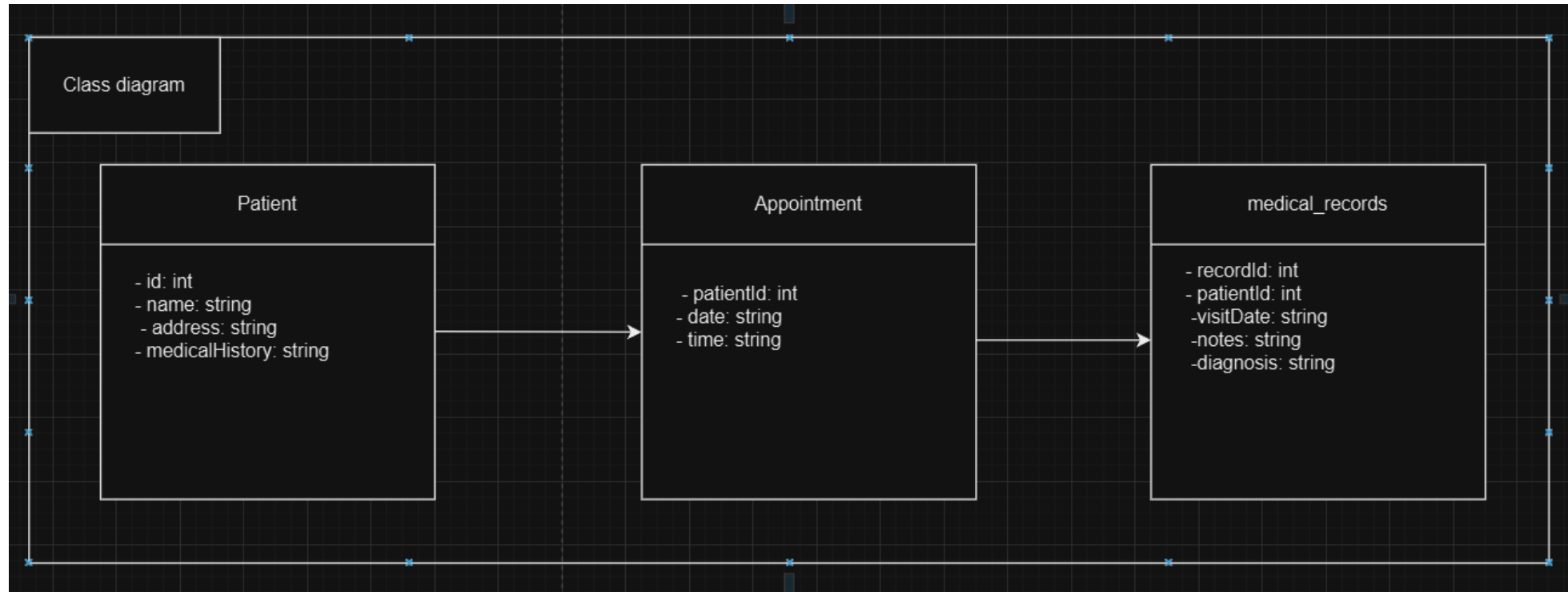
- Retrieve Medical History:

URL: `/medical_history/1`

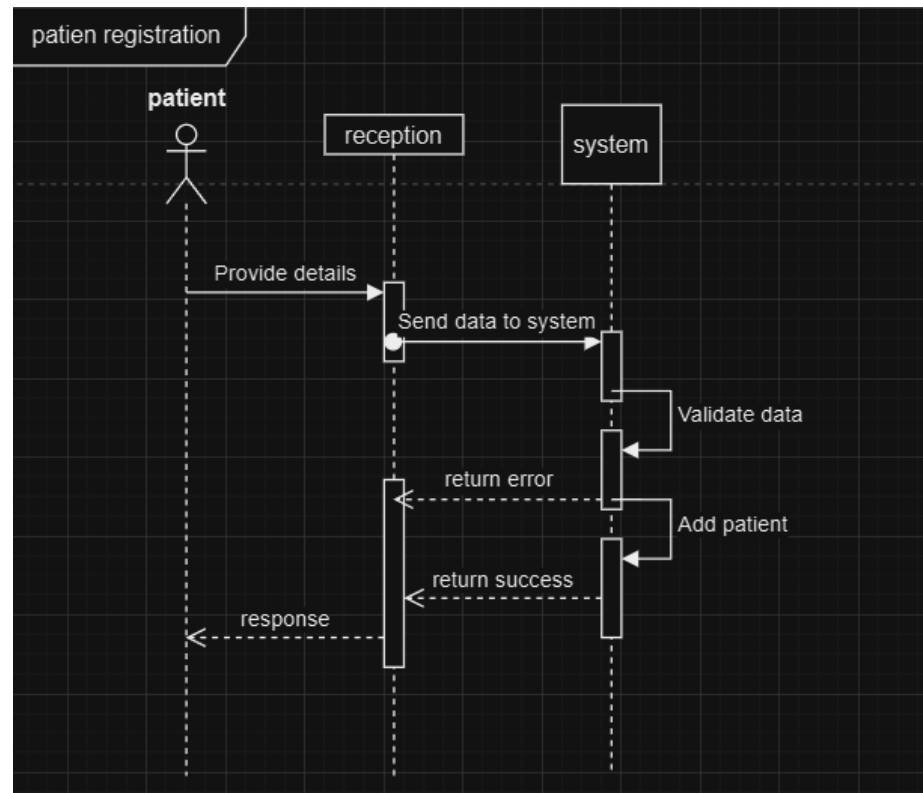
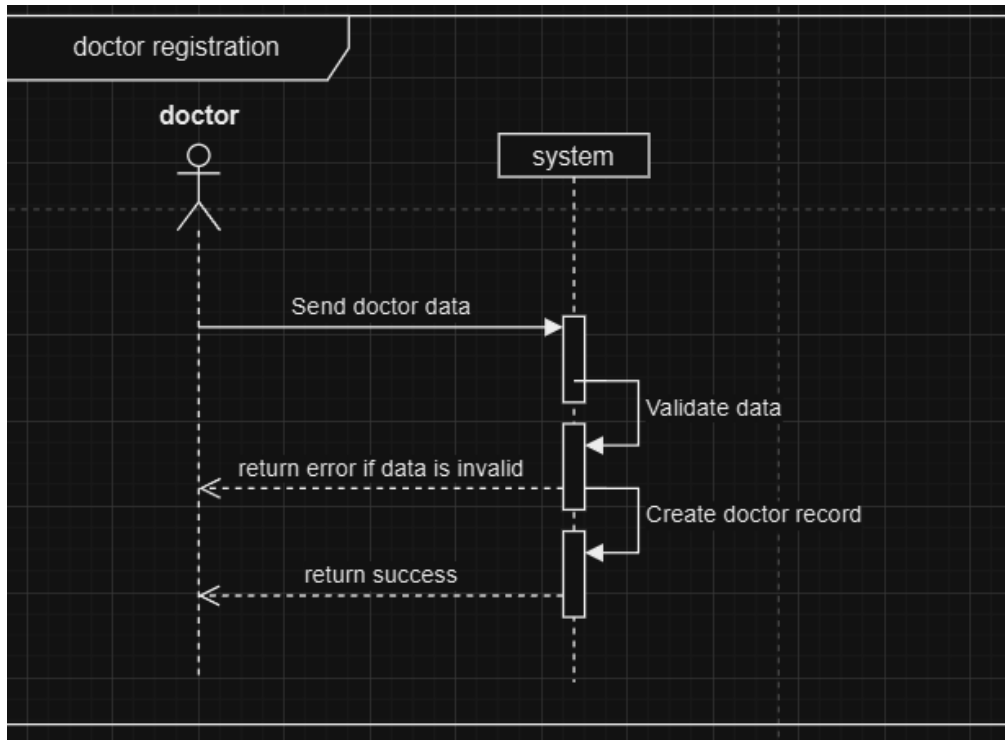
# Use Case Diagram



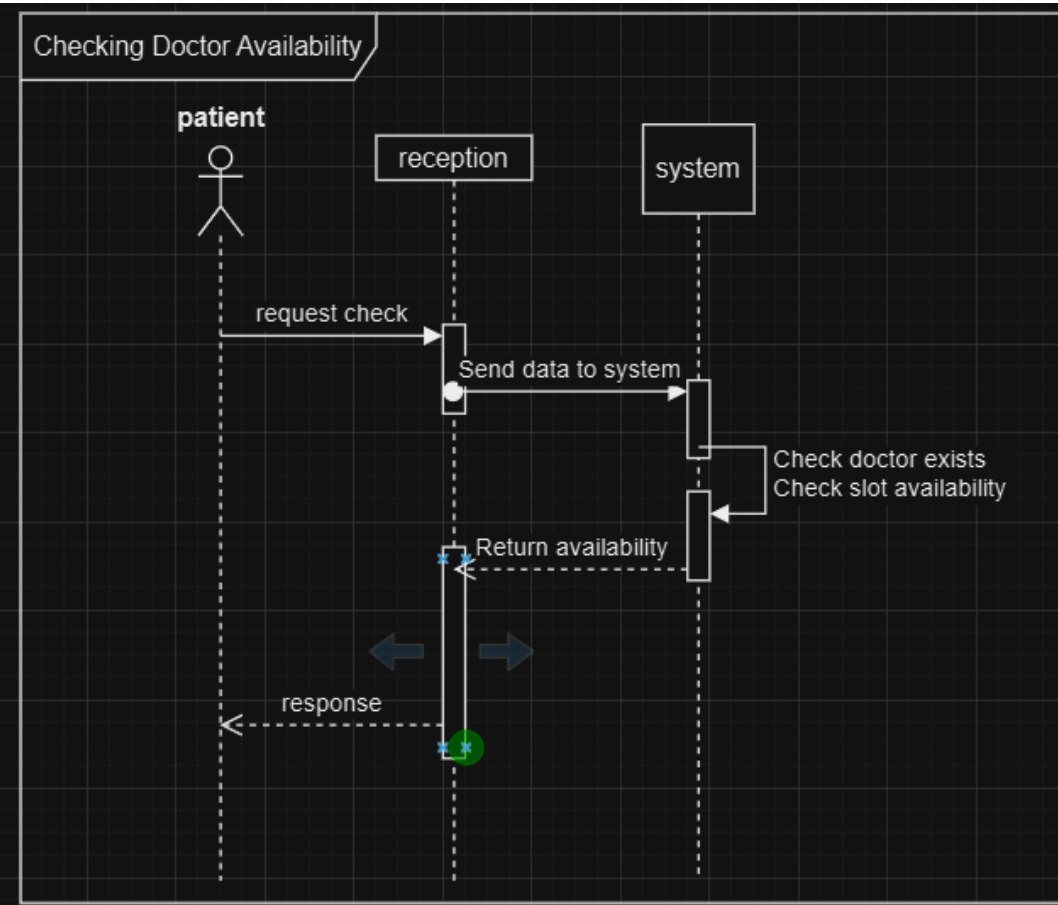
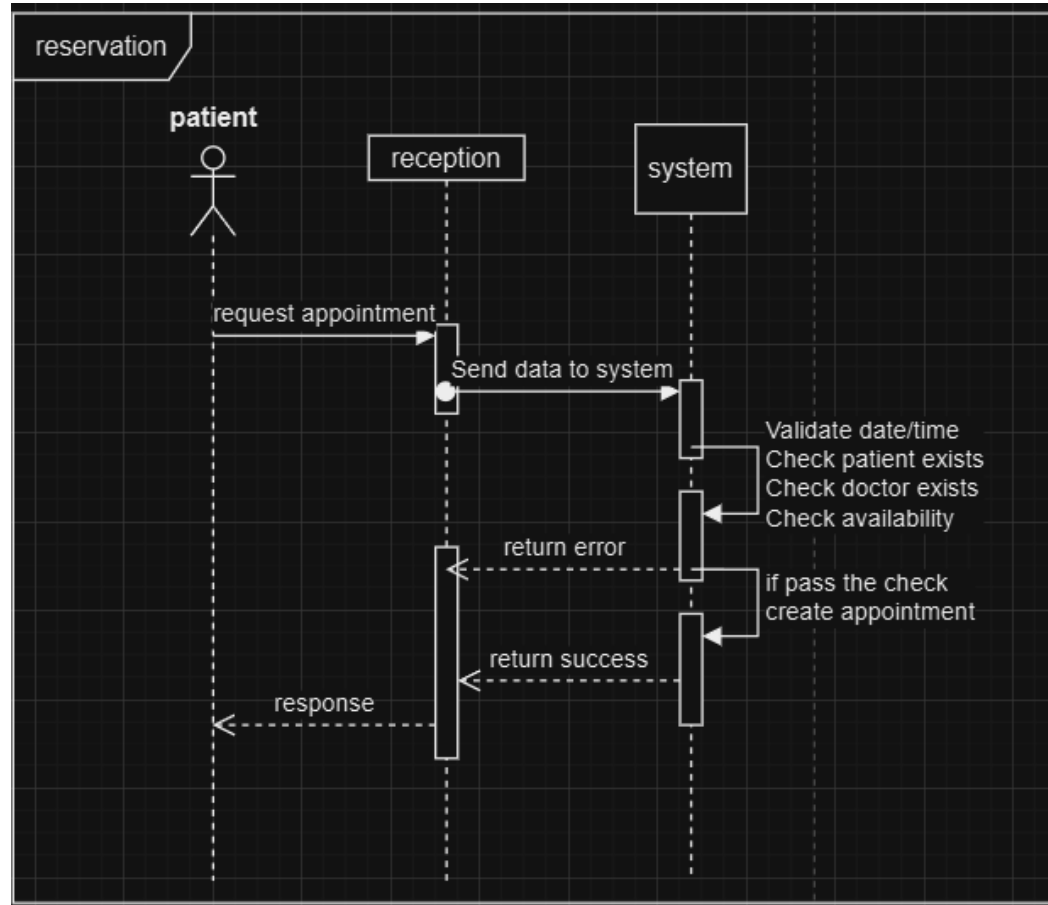
# Class Diagram:



# Sequence diagram

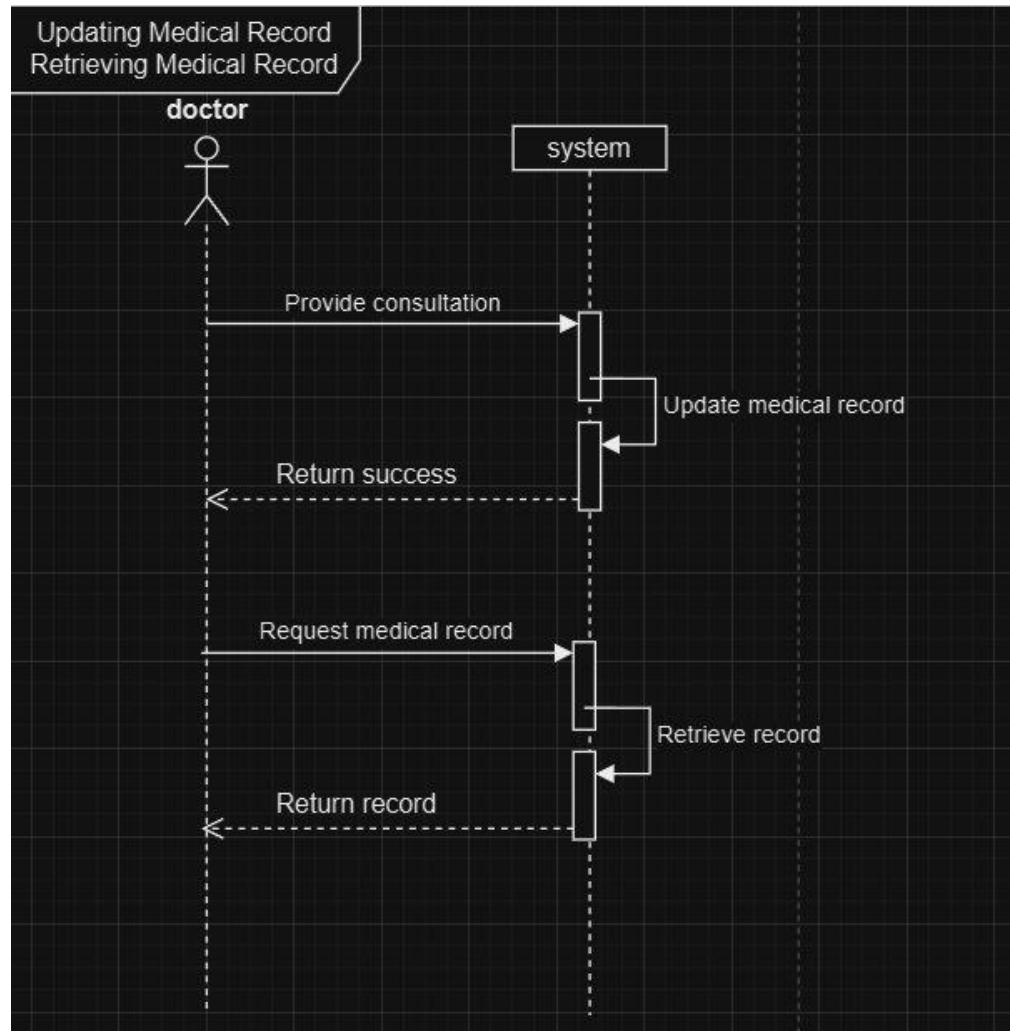


# Sequence diagrams:





# Sequence diagram: Updating data



# Challenges

- **Challenges:**

- Transitioning from SQL to JSON storage.

- Ensuring thread-safe operations.

- **Future Plans:**

- Integrate SQL database.

- Add user authentication.

- Develop a user-friendly frontend.

# Next Steps

- Expand functionality for Week 2:
  - Prescription and Medical Records Handling.
  - Add data persistence.
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