**Reporting APIs**

**1. No Show Appointment Count**

**GET**: /hl7/createdAppointmentCount?patientId={patientId}&startDate={startDate}&endDate={endDate}  
**Description**: Fetches the count of no-show appointments for a given patient within a specified date range.

**2. Booked Appointment Count**

**GET**: /reports/createdAppointmentCount?patientId={patientId}&startDate={startDate}&endDate={endDate}  
**Description**: Fetches the count of successfully booked appointments for a specific patient within a given date range.

**3. New Appointment with Patient Summary**

**GET**: /reports/findNoShowAppointmentsWithPatients?patientId={patientId}&startDate={startDate}&endDate={endDate}  
**Description**: Returns a summary of no-show appointments, including patient details, for a specific date range.

**4. No Show Appointments with Patients**

**GET**: /reports/findNoShowAppointmentsWithPatients  
**Description**: Retrieves no-show appointments along with patient details, filtered by patient ID and date range.

**5. Booked Appointment by Demographics**

**GET**: /reports/findBookedAppointmentByPatientDemographics?gender={gender}&patientName={patientName}&address={address}&minAge={minAge}&maxAge={maxAge}&startDate={startDate}&endDate={endDate}  
**Description**: Retrieves booked appointments filtered by patient demographics (e.g., gender, age, address) within a specified date range.

**6. Find No-Show Appointments by Patient Demographics**

**GET**: /reports/findNoShowAppointmentByPatientDemographics  
**Description**: Retrieves no-show appointments based on patient demographics (gender, name, age, address) within a specified date range.

**7. Booked Appointment with Providers**

**GET**: /reports/findNewAppointmentsWithProviders  
**Description**: Retrieves new appointments scheduled with specific providers based on provider ID, specialty, and date range.

**8. No Show Appointments with Providers**

**GET**: /reports/findNoShowAppointmentsWithProviders  
**Description**: Retrieves no-show appointments filtered by provider ID and optionally by specialty.

**9. Find Booked Appointments by Location**

**GET**: /reports/findBookedAppointmentWithLocation  
**Description**: Retrieves booked appointments filtered by location, allowing tracking of appointments for specific locations within a defined date range.

**10. Find No-Show Appointments by Location**

**GET**: /reports/findNoShowAppointmentWithLocation  
**Description**: Retrieves no-show appointments filtered by location, enabling healthcare providers to track missed appointments at specific locations.

**Messaging APIs**

**1. Patient Appointment Listing by Name**

**GET**: http://localhost:8083/appointment/listByName?patientName={patientName}  
**Description**: Retrieves the list of patient appointments filtered by the patient's name.

**2. Patient Appointment Listing by Phone Number**

**GET**: http://localhost:8083/appointment/listByPhNumber?phNumber={phNumber}  
**Description**: Retrieves the list of patient appointments filtered by the patient's phone number.

**3. Get HL7 Messages by Date Range**

**GET**: http://localhost:8082/hl7/getMessageByRange?startDate={startDate}&endDate={endDate}  
**Description**: Retrieves HL7 messages within the specified date range.

**4. Get Appointment Count by Type**

**GET**: http://localhost:8083/appointment/count?type={type}  
**Description**: Retrieves the count of appointments filtered by the type of appointment.

**5. Delete Appointment by Days**

**DELETE**: http://localhost:8083/appointment/deleteByDays?days={days}  
**Description**: Deletes appointments that are older than the specified number of days.

**6. Delete HL7 Messages by Date**

**DELETE**: https://20.119.41.172:8082/hl7/deleteByDate?date={date}  
**Description**: Deletes HL7 messages older than the specified date.

**7. No-Show Rate**

**GET**: http://localhost:8082/appointment/noshow-rate  
**Description**: Retrieves the current rate of no-show appointments.

**8. Count Appointments by Type**

**GET**: http://localhost:8083/appointment/count-by-type  
**Description**: Retrieves the count of appointments filtered by their type.

**9. Book Appointment**

**POST**: http://localhost:8083/hl7/book-appointment  
**Description**: Books a new appointment for a patient in the system.

**10. SIU Request (Schedule Information Unsolicited)**

**POST**: http://localhost:8083/hl7/SIU  
**Description**: Sends a Schedule Information Unsolicited (SIU) message to update appointment details in the system.

**11. Send HL7 Messages Over TCP**

**POST**: http://localhost:8083/hl7/sendTcp  
**Description**: Sends HL7 messages over TCP, including ADT messages with patient and visit data.

**12. Send ADT Message in HTTP Format**

**POST**: http://localhost:8083/sendHttp  
**Description**: Sends an ADT message in HTTP format for processing patient data and visit information.

**13. Book a New Appointment**

**POST**: http://localhost:8083/appointment/book  
**Description**: Books a new appointment for a patient, including patient details, visit information, insurance details, and appointment timings.

**14. Process No-Show Reminders**

**GET**: http://localhost:8083/appointment/process-no-show-reminders  
**Description**: Processes no-show reminders to ensure patients are reminded about their upcoming appointments.