**User Module**

* **Schema:**
  + id
  + username
  + password
  + roles - {ADMIN, MANAGER, PATIENT}
  + referenceId - {patientId, hospitalId} if generated
* **Endpoints:**
  + signUp
  + login
  + signout
  + updateReference - {adminId, patientId, hospitalId} = if generated

**Hospital Module**

* **Schema:**
  + id
  + name
  + Address - {city, pincode, longitude, latitude}
  + hospitalType
  + verifiedHospital
  + contactNo
* **Service:**
  + addHospital() -> #manager #update reference in USER-MD
  + updateHospital() -> #manager
  + verifyHospital() -> #admin
  + makeBedAvailable() -> #manager
  + getNearbyHospitals() -> #user

**Bed Module**

* **Schema:**
  + id
  + hospitalId
  + bedType - {GENERAL, ICU\_BED, VENTILATOR\_BED}
  + bedStatus - {AVAILABLE, BOOKED, UNBOOKED}
  + bedCostPerDay
* **Endpoints:**
  + addBed() -> #manager
  + updateBed() -> #manager
  + getAllBeds() -> #user
  + getBedsByHospital() -> #user #manager RT-HM
  + getNearbyBed() -> #user RT-HM
  + getBedsByType() -> #user
  + bookBed() -> #user
  + unbookBed() -> #user
  + readyBed() -> #manager

**Patient Module**

* **Schema:**
  + id
  + firstName
  + lastName
  + email
  + aadhar
  + Address - {city, pincode, longitude, latitude}
* **Service:**
  + createPatient() -> #user #reference to user-Module
  + updatePatientDetails() -> #user
  + getPatientDetails() -> #user
  + bookBed() -> #user
    - Implementation: bookBed(randomId) RT\_BM, createPatient(), addBooking() RT-BM

**Booking Module**

* **Schema:**
  + id
  + patientId
  + bookingDate
  + occupyDate
  + releaseDate
  + bookingStatus - {REQUESTED, APPROVED, DECLINED}
* **Service:**
  + addBooking() -> #user
  + getBookingForPatientId() -> #user
  + approveBooking() -> #manager
  + rejectBooking() -> #manager
  + cancelBooking() -> RT-BM #user
  + checkBooking() -> #user

**Billing Module**

* **Schema:**
  + id
  + reservationId
  + billAmount
  + paymentStatus - {PENDING, COMPLETED}
  + rating
  + review
  + reportType - {BED, HOSPITAL}
  + report
* **Service:**
  + generateBill() -> #user RT-BM
  + initiatePayment() -> #user
  + checkPaymentStatus() -> #user #manager
  + addRating() -> #user
  + addReview() -> #user
  + addReport() -> #user

Top of Form