



WEB SERVICES TECHNOLOGY

Design and implement Hospital Management System Rest APIs

Part 1

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Identify 4 core resources required by Hospital Management System:

1. **Laboratory Test**: Represents various laboratory tests that can be performed at the hospital. It includes details like test name, description, associated costs, and any specific requirements.
2. **Medical Staff**: Represents the non-doctor medical staff members working at the hospital, such as nurses, technicians, and pharmacists. It includes their contact details, job roles, and shifts.
3. **Ward/Room**: Represents the physical spaces where patients are accommodated during their hospital stay. It includes attributes like ward/room number, capacity, availability, and associated staff.
4. **Electronic Health Records (EHR)**: Represents the digital records of patients' medical history, diagnoses, treatments, and other relevant information. It includes attributes like patient demographics, allergies, lab results, and prescribed medications.

1- Laboratory Test:

Class Name: LaboratoryTest

Attributes: testId, testName, description, cost, requirements

Operations: getTestId(), getTestName(), getDescription(), getCost(), getRequirements(), performTest()

Medical Staff:

2- MedicalStaff

Class Name: MedicalStaff

Attributes: staffId, name, contactDetails, shift

Operations: getStaffId(), getName(), getContactDetails(), getJobRole(), getShift(), assignToWard()

Ward/Room:

3- WardRoom

Class Name: WardRoom

Attributes: roomNumber, capacity, availability, associatedStaff

Operations: getRoomNumber(), getCapacity(), checkAvailability(), assignStaff()

4- Electronic Health Records (EHR):

Class Name: ElectronicHealthRecord

Attributes: patientId, patientName, demographics, allergies, medicalHistory, prescriptions

Operations: getPatientId(), getPatientName(), getDemographics(), getAllergies(), getMedicalHistory(), getPrescriptions(), updateRecord()

