

Lab Assignment 2: Class Diagram Modelling

Name: Urvashi Bhargava

SRN: PES2UG21CS579

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Q) Class diagram for a Hospital Management System, by identifying the classes, attributes, relationships and their cardinality:

Classes:

- Hospital
- Location
- Department
- Staff
- TechnicalStaff
- Lab
- OperationTheater
- Doctor
- FullTimeDoctor
- VisitingDoctor
- Patient
- Consultation

Attributes:

1. Hospital
 - Attributes: Name, ChainID
2. Location
 - Attributes: Locality, Address, Phone, DateOfInception
3. Department
 - Attributes: Name, HeadOfDepartment
4. Staff
 - Attributes: StaffID, Name, etc. (common details)
5. TechnicalStaff
 - Attributes: LabAssigned, OTAssigned
6. Lab
 - Attributes: LabID, LabName

7. OperationTheater
 - Attributes: OTID, OTName
8. Doctor
 - Attributes: DoctorID, Name, PrimaryDepartment
9. FullTimeDoctor
 - Attributes: MonthlySalary, AdditionalWorkRemuneration
10. VisitingDoctor
 - Attributes: ConsultationCharge, OperationCharge
11. Patient
 - Attributes: PatientID, Name, etc.
12. Consultation
 - Attributes: Location, Date, Time, Observations, Diagnosis, AdmissionRequired, Fee, PaymentDate, PaymentMode

Relationships and Cardinality:

- 1 Lab can have 0 to many Staff
- 1 Hospital can have many locations
- 0 to many doctors can be part of 0 to many departments

CLASS DIAGRAM:

