DBMS PROJECT
HOSPITAL MANAGEMENT SYSTEM

TEAM 6 MEMBERS

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ABSTRACT

❑The Hospital Management System is a comprehensive software application to manage the day-to-day operations of a hospital. This project aims at streamlining the critical administrative and clinical functions, improving operational efficiency and enhancing patient care. It facilitates the efficient management of various hospital services including patient records, appointments and billing.

❑This system primarily aims to automatically manage patient information so it can be easily accessed by authorized personnel. It can provide functionalities for patient registration, doctor scheduling, and storing medical records. It stores the data centrally so that all the records can be safely accessed for proper and effective retrieval. Using a DBMS maintains the integrity of data and makes it quick to retrieve as well as protects the sensitive medical information.

❑It tracks the assignment of hospital staff and their schedules. It helps in resource allocation to meet the needs of both patients and medical staff. The automated billing system supports the generation of invoices and keeps a record of payments, thus reducing human error and the potential for fraud.

❑The Hospital Management System increases hospital productivity by reducing manual paperwork, eliminating administrative delays. It has a user-friendly interface that allows doctors, nurses, administrative staff, and patients to access and interact with relevant information seamlessly. It also generates reports for management, which aids in making informed decisions related to hospital operations and patient care.

❑The system design has been made adaptive to accommodate the specific requirements of hospitals, whether they are small clinics or huge health-care institutions.
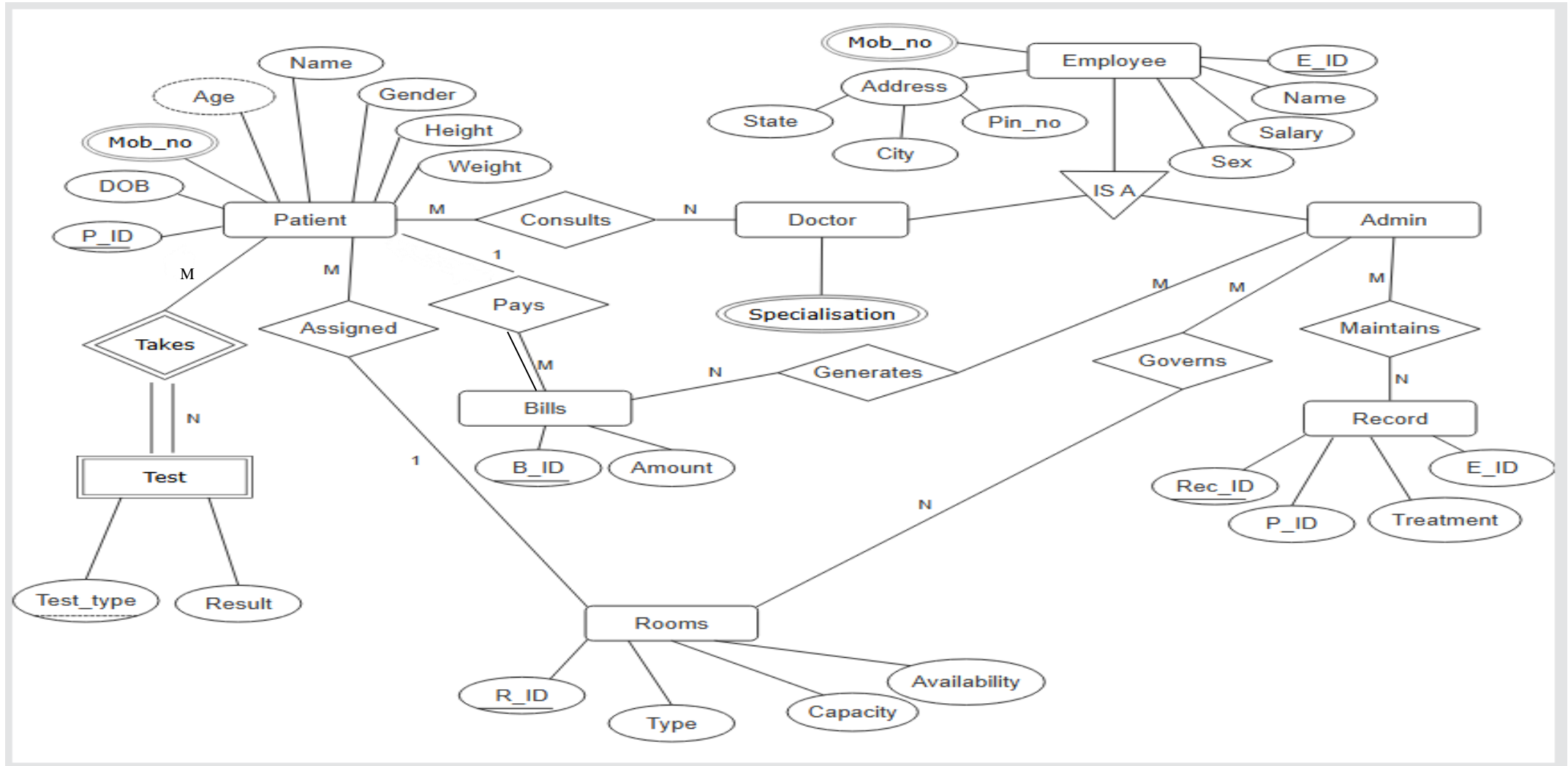
SRS DOCUMENT

- SRS Team 6 AIDS B

QUESTIONNAIRE

- Questionnaire_HMS

ER DIAGRAM

DATABASE TABLES

admin(<u>E_ID</u> , Name , Salary , Sex , State , City , Pin_no)
admin_mob_no(<u>E_ID</u> , Mob_no)
bills(<u>B_ID</u> , Amount)
bills_pays(<u>B_ID</u> , Amount , <u>P_ID</u>)
consults(<u>P_ID</u> , <u>E_ID</u>)
doctor(<u>E_ID</u> , Name , Salary , Sex , State , City , Pin_no)
doctor_mob_no(<u>E_ID</u> , Mob_no , Specialisation)
generates(<u>E_ID</u> , <u>B_ID</u>)
governs(<u>E_ID</u> , <u>R_ID</u>)
maintains(<u>E_ID</u> , <u>Rec_ID</u>)
patient_assigned(<u>P_ID</u> , DOB , Name , Gender , Height , Weight , <u>R_ID</u>)
patient(<u>P_ID</u> , DOB , Name , Gender , Height , Weight)
patient_mob_no(<u>P_ID</u> , Mob_no)
record(<u>Rec_ID</u> , P_ID , Treatment , E_ID)
rooms(<u>R_ID</u> , Type , Capacity , Availability)
test_takes(Test_type , Result , P_ID)

ADMIN TABLE

E_ID	Name	Salary	Sex	State	City	Pin_no
NULL	NULL	NULL	NULL	NULL	NULL	NULL

ADMIN_MOB_NO TABLE

E_ID	Mob_no
NULL	NULL

BILLS_PAYS TABLE

B_ID	Amount	P_ID
NULL	NULL	NULL

CONSULTS TABLE

P_ID	E_ID
NULL	NULL

DOCTOR TABLE

E_ID	Name	Salary	Sex	State	City	Pin_no
NULL	NULL	NULL	NULL	NULL	NULL	NULL

DOCTOR_MOB_NO TABLE

E_ID	Mob_no	Specialisation
NULL	NULL	NULL

GENERATES TABLE

E_ID	B_ID
NULL	NULL

GOVERNS TABLE

E_ID	R_ID
NULL	NULL

MAINTAINS TABLE

E_ID	Rec_ID
NULL	NULL

PATIENT_ASSIGNED TABLE

P_ID	DOB	Name	Gender	Height	Weight	R_ID
NULL	NULL	NULL	NULL	NULL	NULL	NULL

PATIENT_MOB_NO TABLE

P_ID	Mob_no
NULL	NULL

RECORD TABLE

Rec_ID	P_ID	Treatment	E_ID
NULL	NULL	NULL	NULL

ROOMS TABLE

R_ID	Type	Capacity	Availability
NULL	NULL	NULL	NULL

TEST_TAKES TABLE

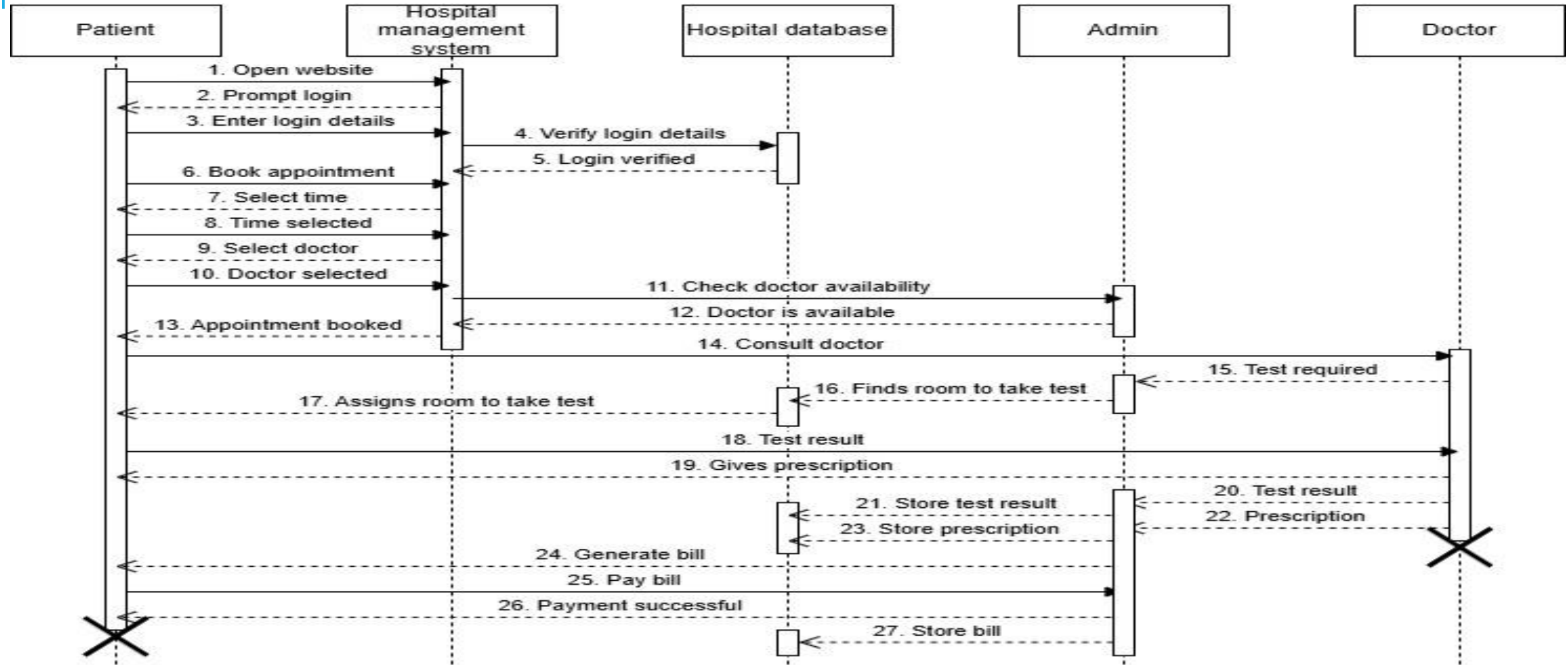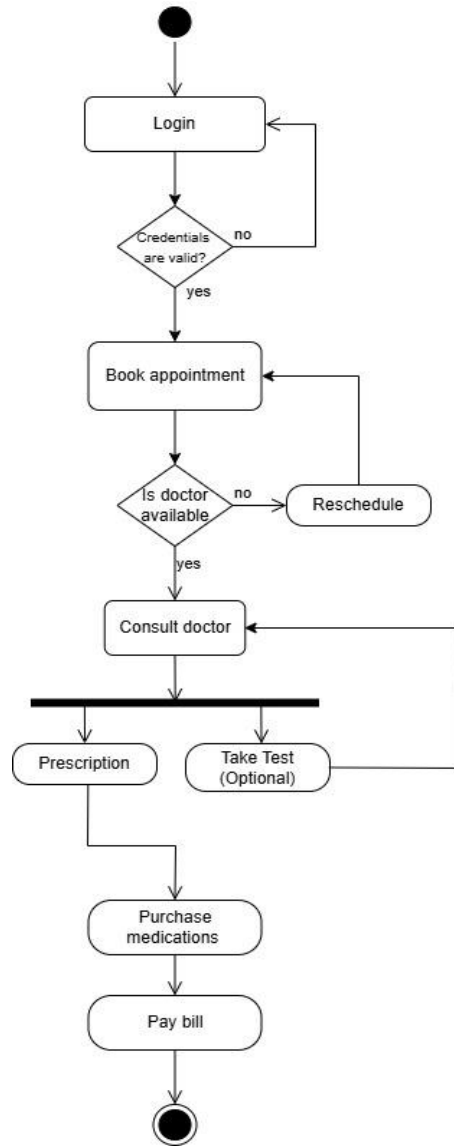| Test_type	Result	P_ID

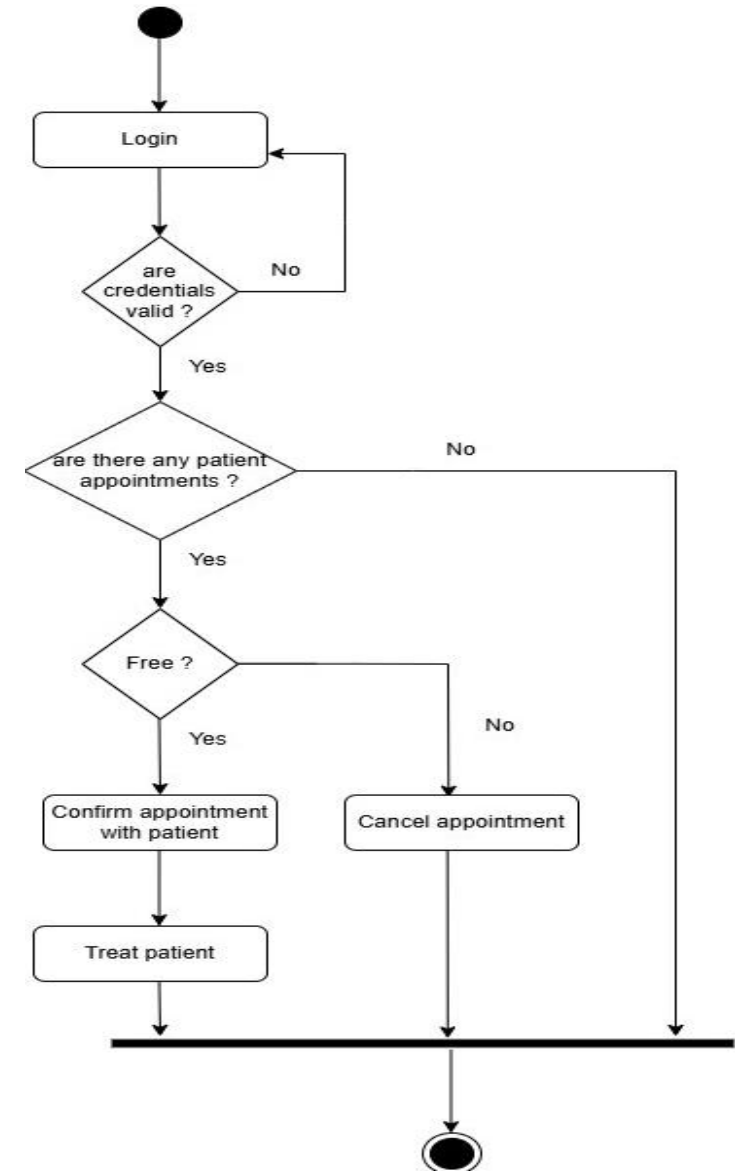# CLASS DIAGRAM
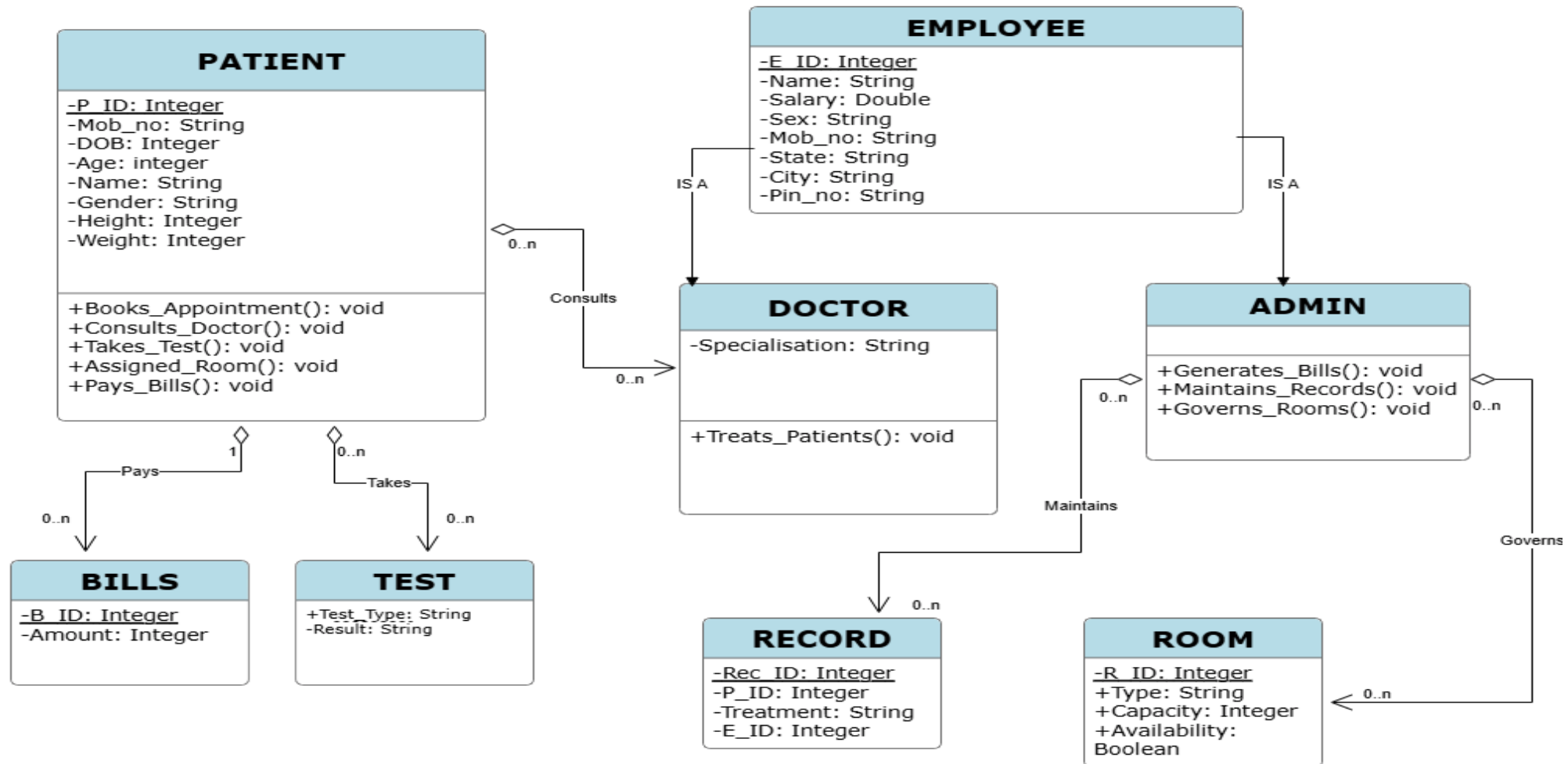
USE CASE DIAGRAM
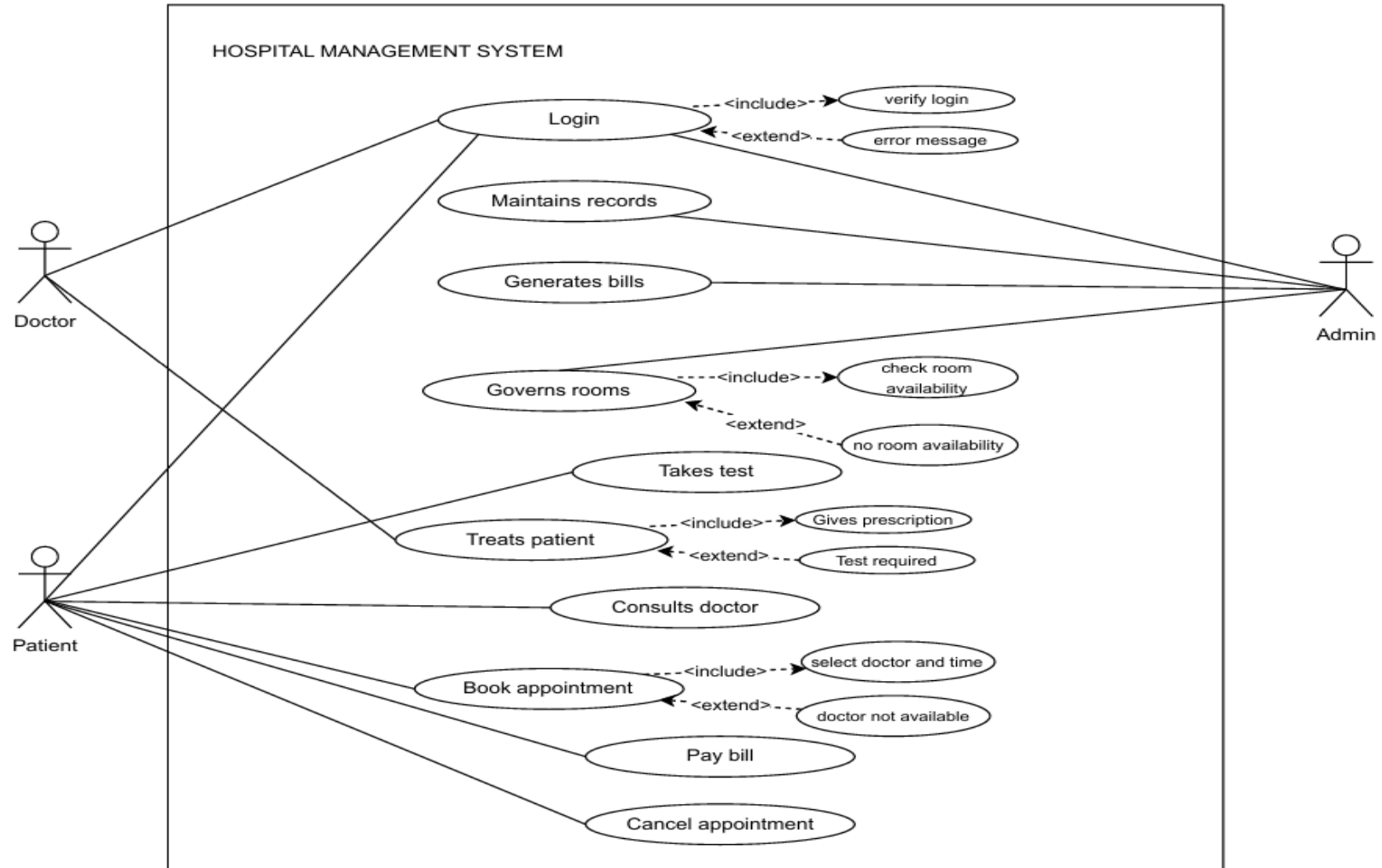
SEQUENCE DIAGRAM

ACTIVITY DIAGRAM

Patient login

Doctor login

Admin login

Admin Login

Are credentials valid? — No

Yes

Has appointment been booked by patient? — No — Emergency? — Yes

Yes   No

Is patient already in database? — No — Add Patient

Yes

Did any patient consult doctor? — No

Yes

Does patient require test? — Yes — Add Test — Allot Room

No

Add Prescription

Add Patient Bill

Add details to Record