North South University

Department of Electrical & Computer Engineering

PROJECT REPORT

Course Code: CSE 327

Course Title: Software Engineering

Section: 04

Project Name: Centralized Hospital Management System Using MySQL

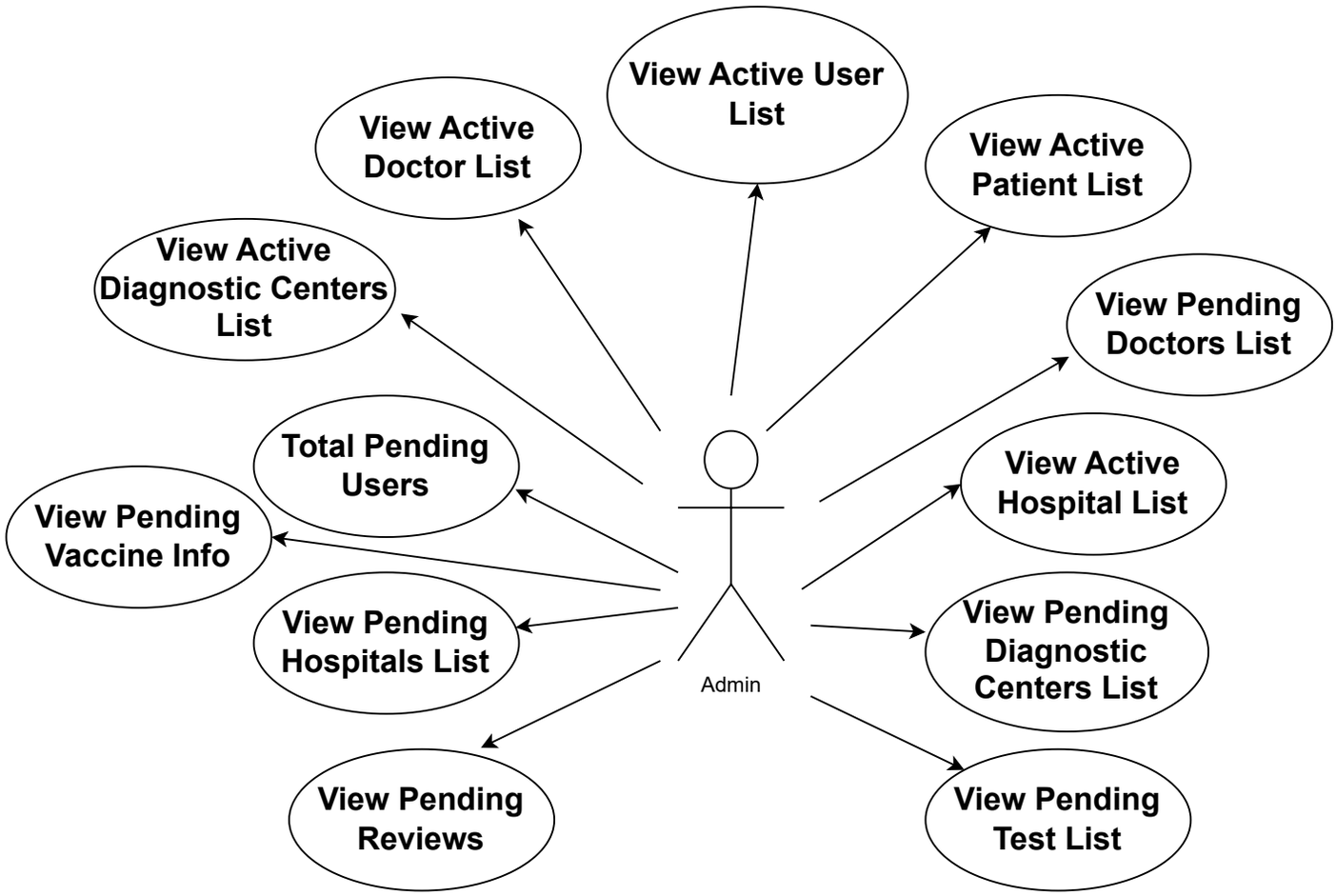
CHMS

Date of Submission: 14 May 2024

Group members:

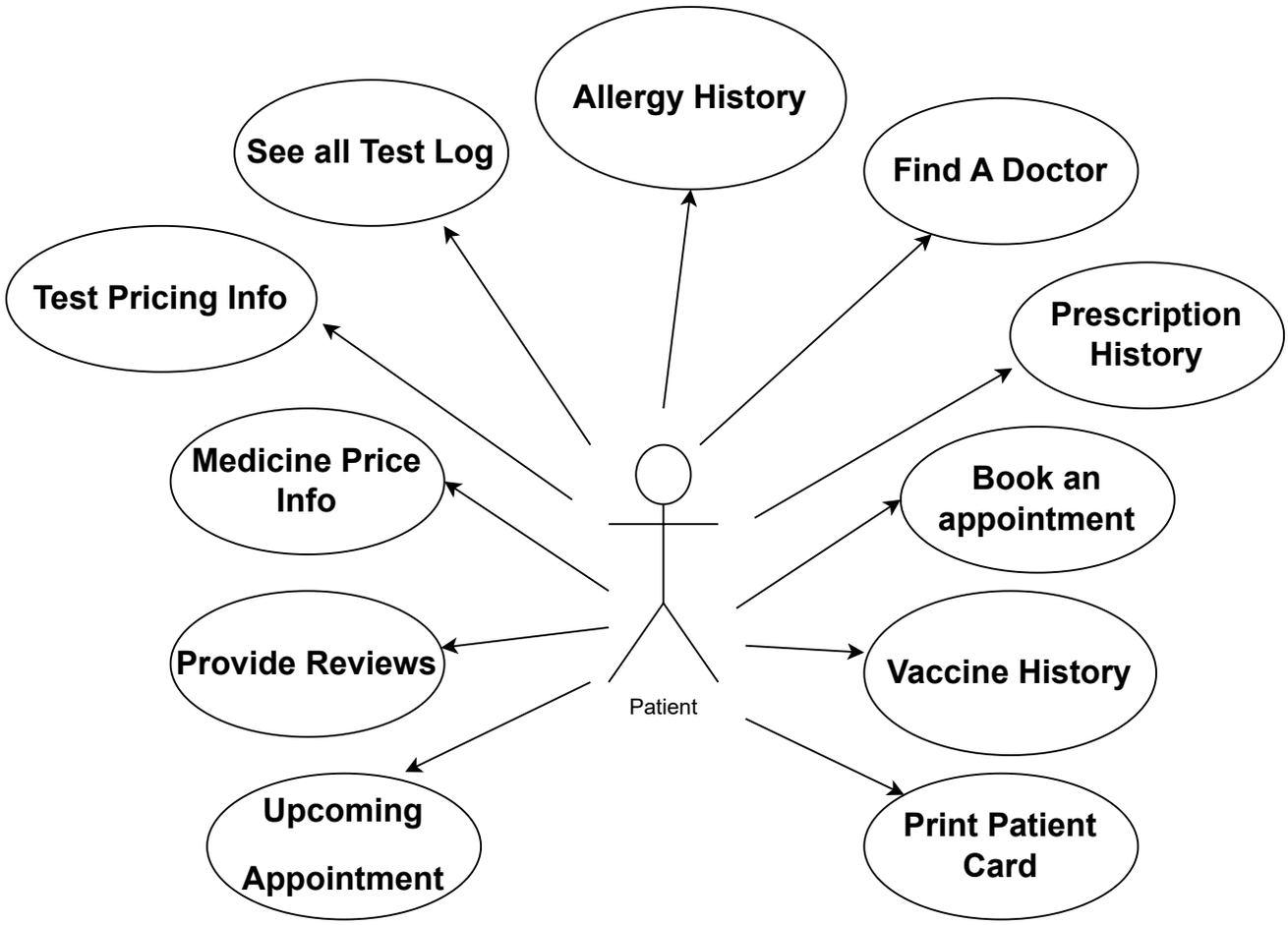
Name	ID
1. Saikat Ghosh	2011146642
2. Joy Kumar Ghosh	2211424 6 42

Course Instructor: Maktuba Mohid Binni



Actor as Admin

Drawn By
Saikat Ghosh - 2011146642



Actor as a Patient

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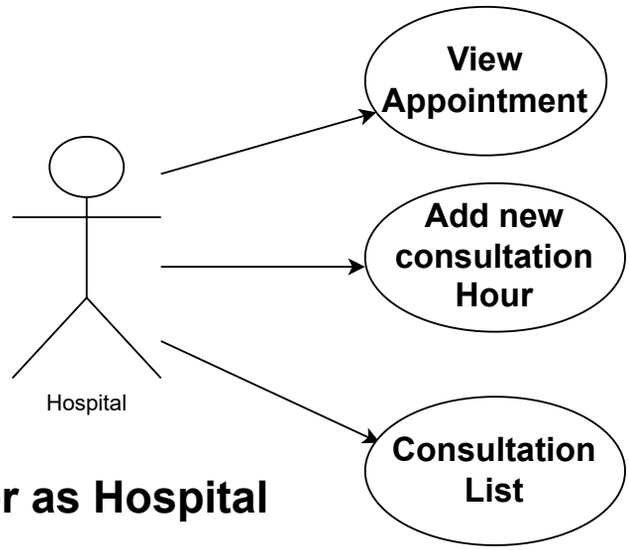
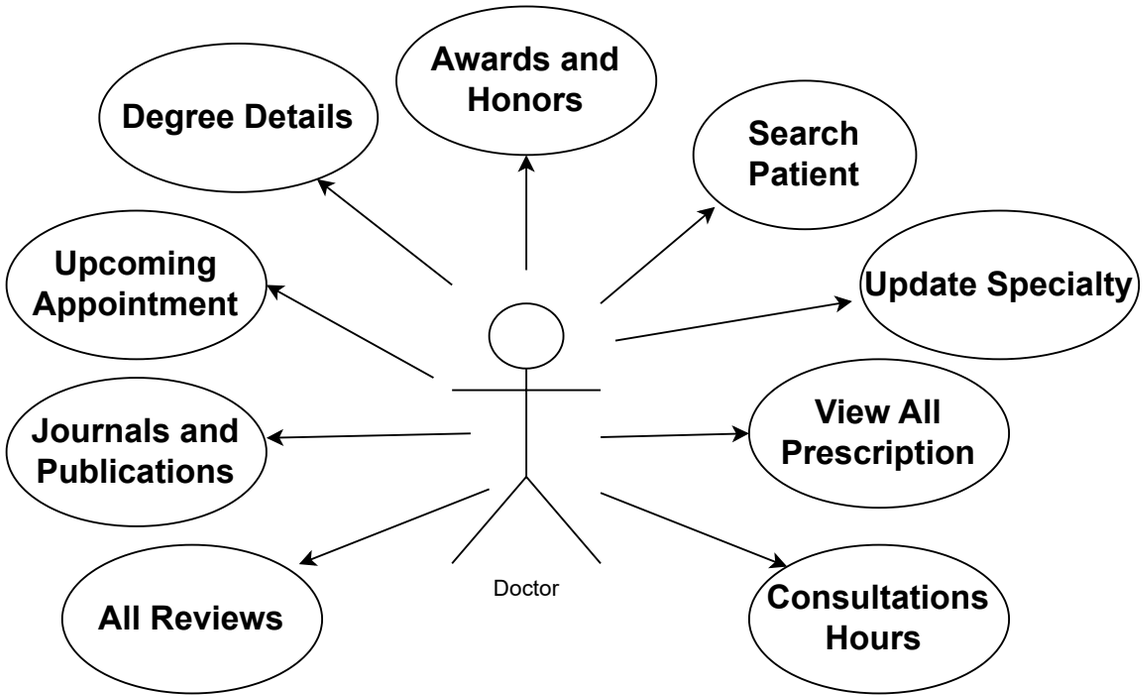


Actor as Hospital

Drawn By
Joy Kumar Ghosh - 2211424 6 42



Actor as a Doctor

Drawn By
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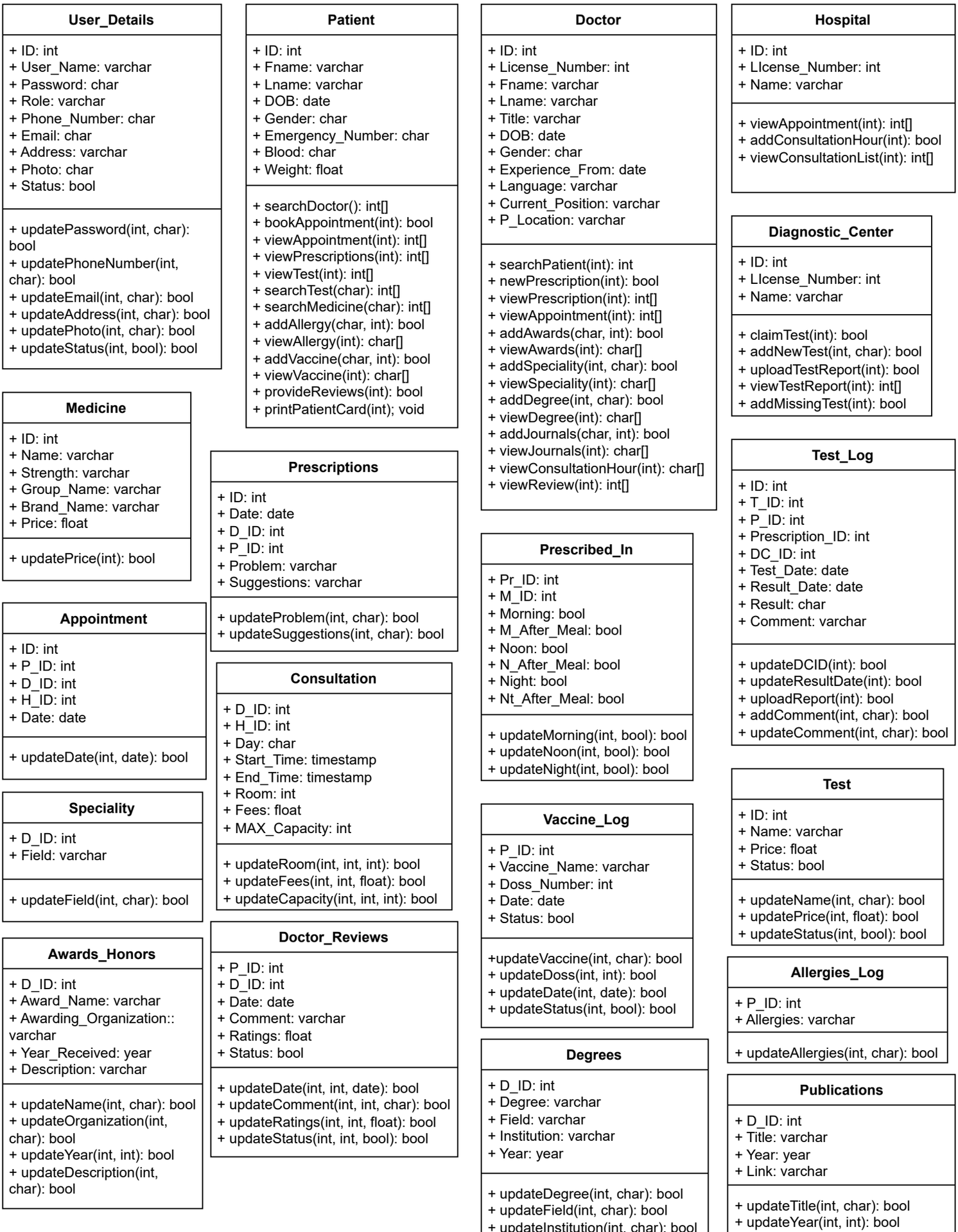
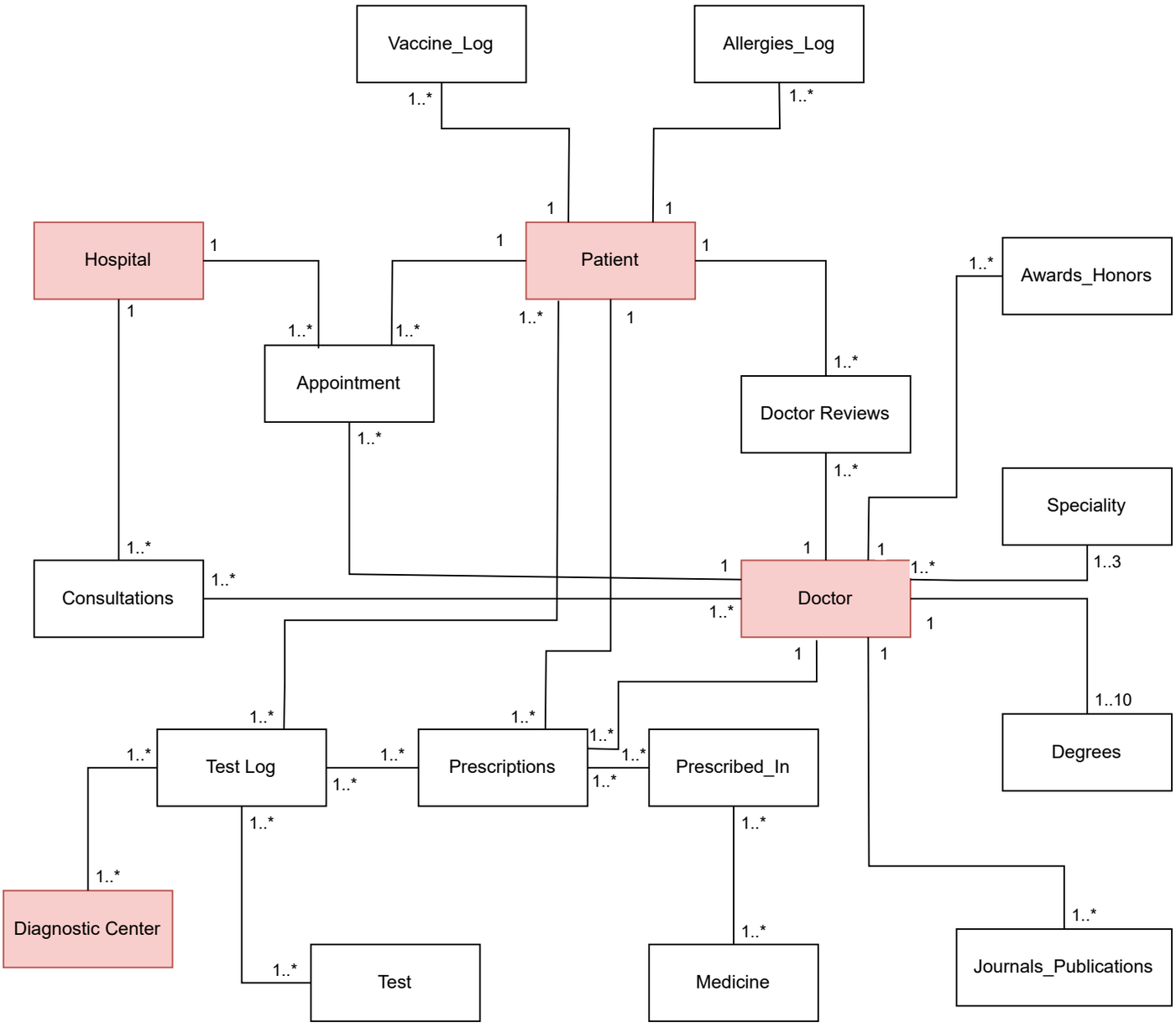


Total 19 Class Information Diagram

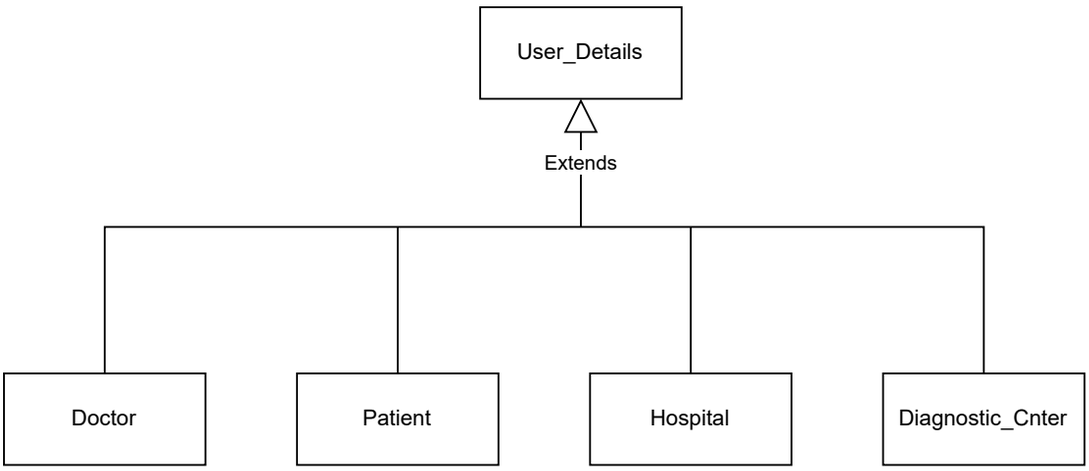
Group Work

Class Diagram



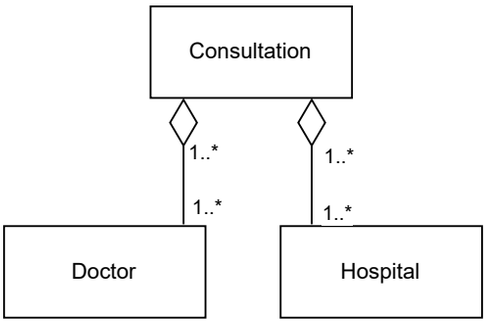
Group Work

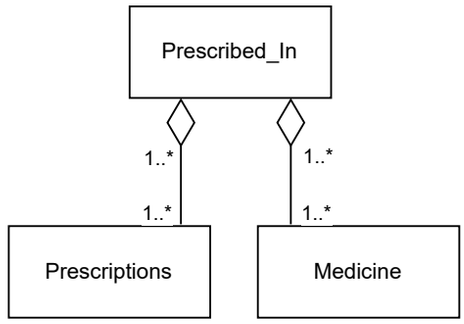
Generalization



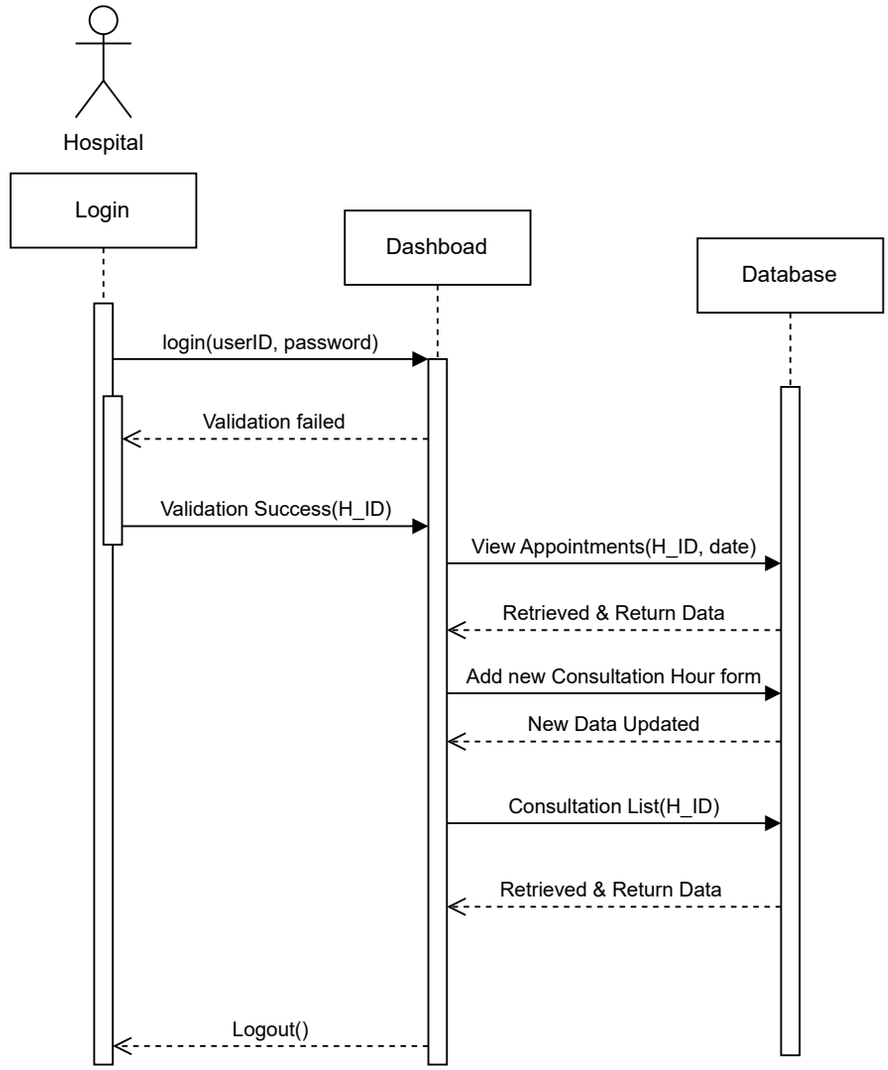
Group Work

Aggregration



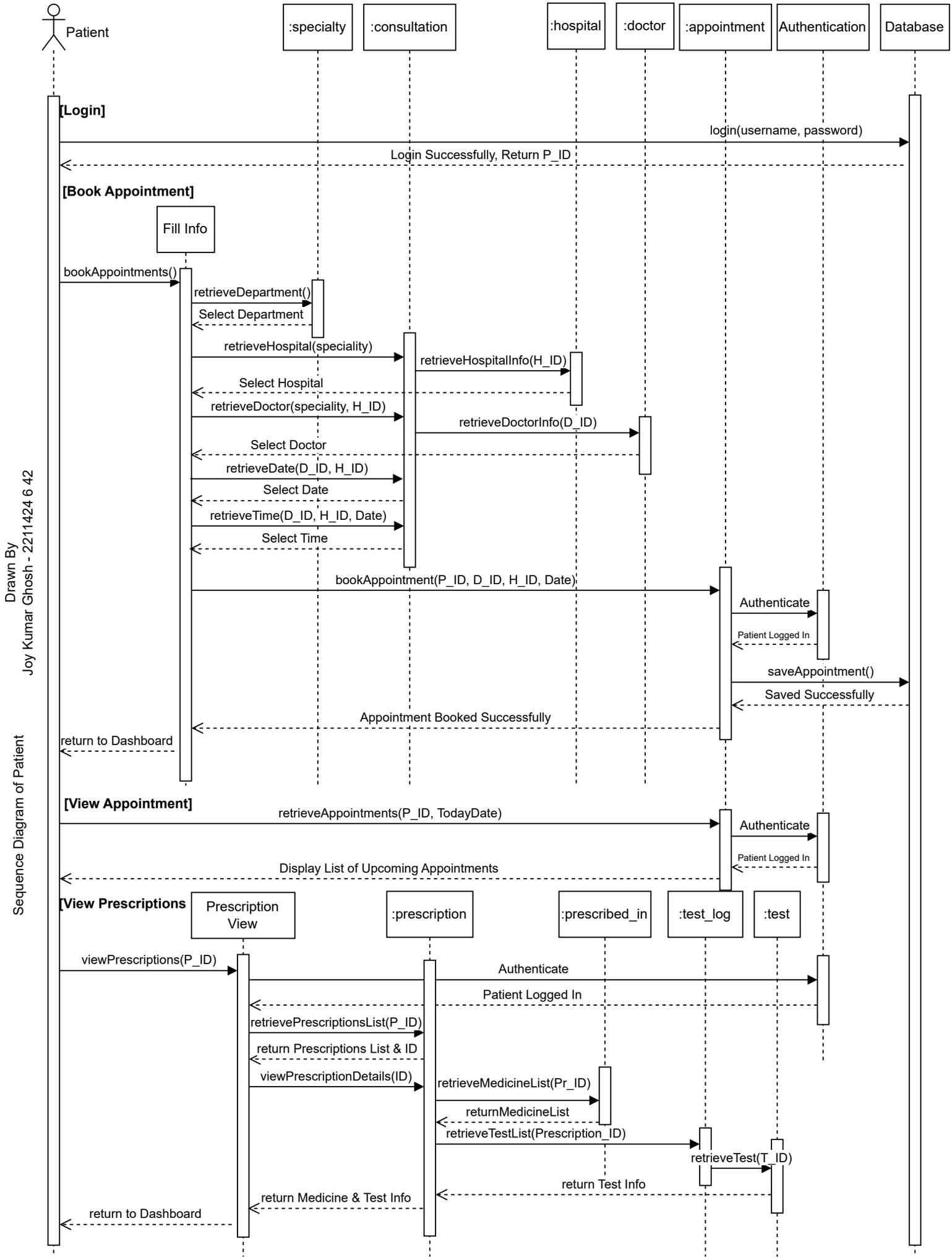


Group Work

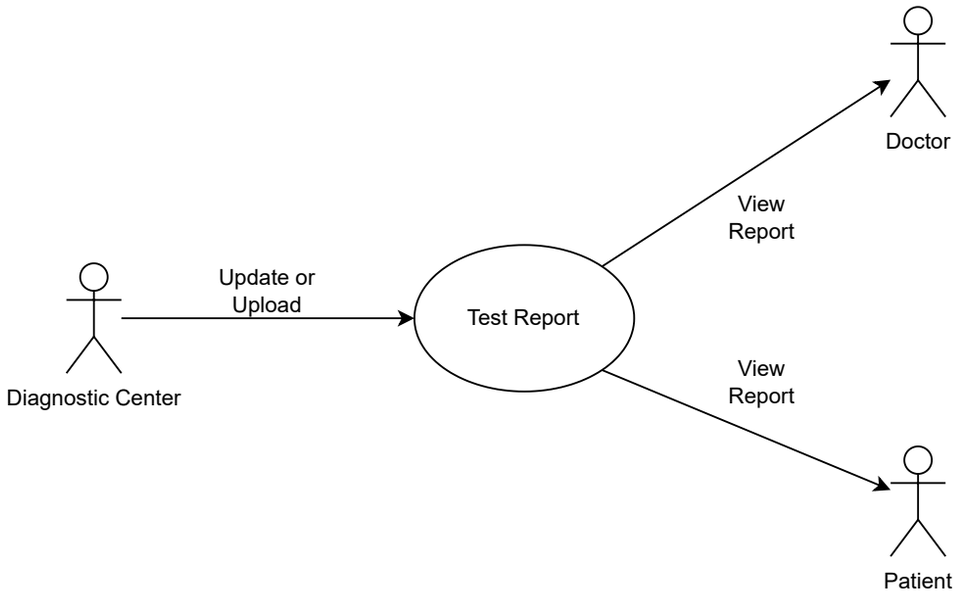


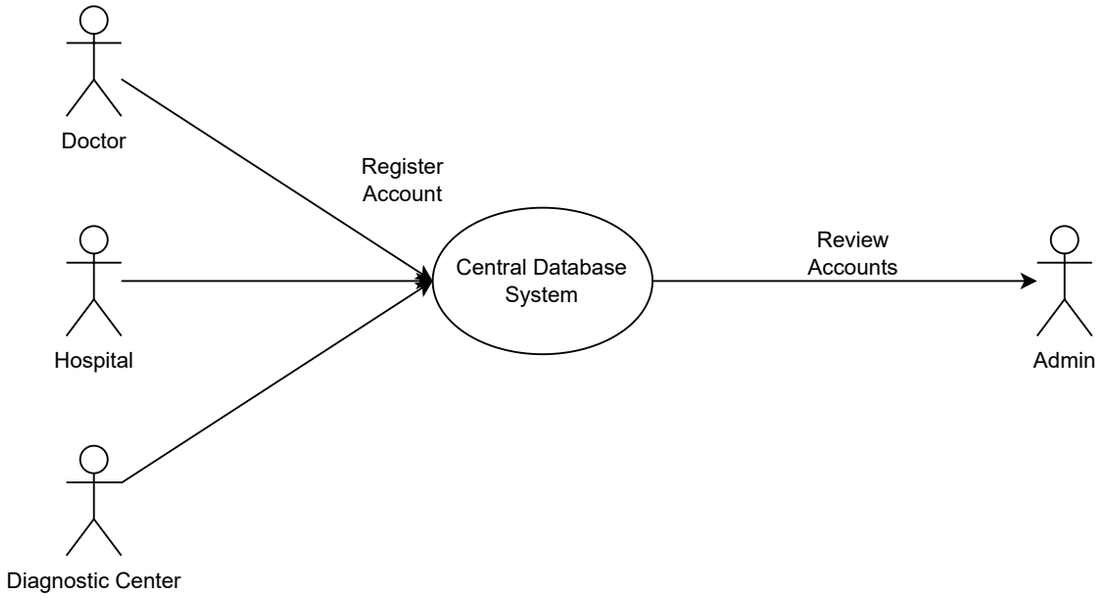
Hospital Sequence Diagram

Drawn By
Saikat Ghosh - 2011146642


Patient
:specialty
:consultation
:hospital
:doctor
:appointment
Authentication
Database
[Login]
login(username, password)
Login Successfully, Return P_ID
[Book Appointment]
Fill Info
bookAppointments()
retrieveDepartment()
Select Department
retrieveHospital(speciality)
retrieveHospitalInfo(H_ID)
Select Hospital
retrieveDoctor(speciality, H_ID)
retrieveDoctorInfo(D_ID)
Select Doctor
retrieveDate(D_ID, H_ID)
Select Date
retrieveTime(D_ID, H_ID, Date)
Select Time
bookAppointment(P_ID, D_ID, H_ID, Date)
Authenticate
Patient Logged In
saveAppointment()
Saved Successfully
Appointment Booked Successfully
return to Dashboard
[View Appointment]
retrieveAppointments(P_ID, TodayDate)
Authenticate
Patient Logged In
Display List of Upcoming Appointments
[View Prescriptions
Prescription View
:prescription
:prescribed_in
:test_log
:test
viewPrescriptions(P_ID)
Authenticate
Patient Logged In
retrievePrescriptionsList(P_ID)
return Prescriptions List & ID
viewPrescriptionDetails(ID)
retrieveMedicineList(Pr_ID)
returnMedicineList
retrieveTestList(Prescription_ID)
retrieveTest(T_ID)
return Test Info
return Medicine & Test Info
return to Dashboard
Drawn By
Joy Kumar Ghosh - 2211424 6 42
Sequence Diagram of Patient

Use Case Interaction





Group Work