Name：[Izaan Mohtashim(20p-0613)
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Section: 5-A

Course: Software Design and Analysis

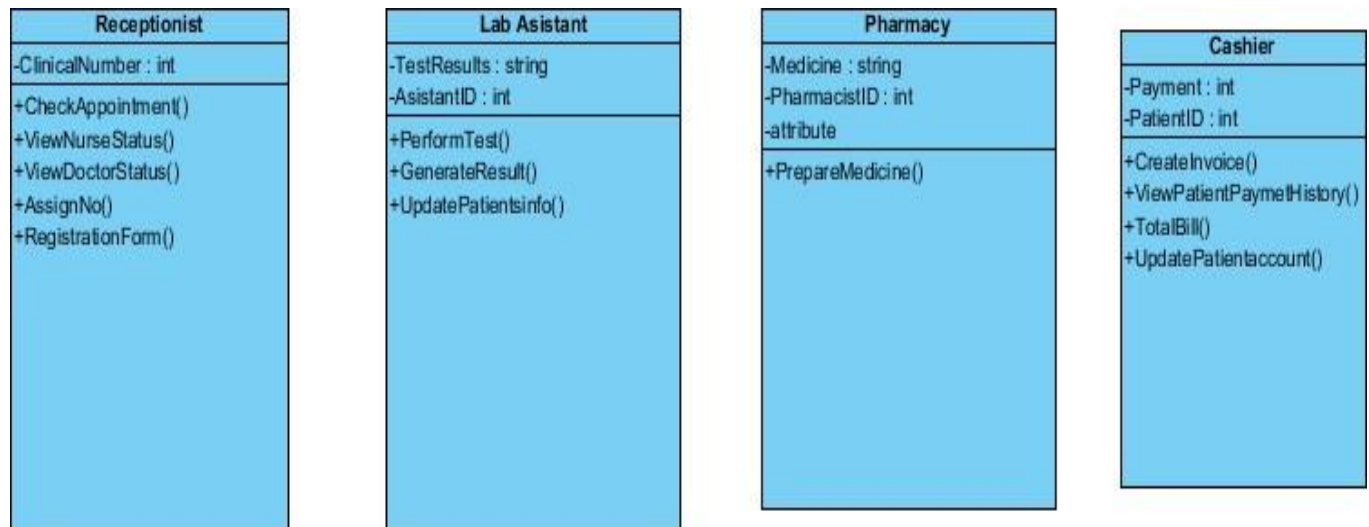# Assignment 3

HOSPITAL MANAGEMENT SYSTEM

CLASSES:

Patient

-firstname : string
-lastname : string
-email : string
-age : int
-gender : char
-CNIC : string

+RegistrationForm()
+ViewAvailableAppointments()
+BookAppointments()
+CheckDoctorsPrescription()
+CheckTestResults()
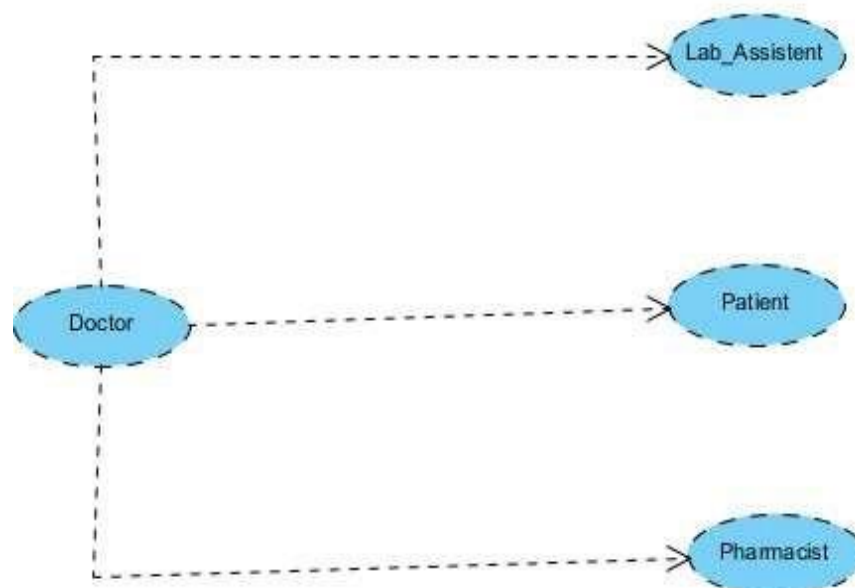+CheckPaymentHistory()
+ViewMedicalHistory()

Nurse

-DoctorID : int
-Temp : int
-BP : int
-Sugar : int

+PerformExamination()
+Setvalues()
+Getvalues()
+RefertoDoctor()
+UpdatePatientaccount()

Doctor

-Prescription : string

+DiagnosePatient()
+RefertoNurse()
+ExamineTestReports()
+PatientsPrecription()

Receptionist
-ClinicalNumber : int
+CheckAppointment()
+ViewNurseStatus()
+ViewDoctorStatus()
+AssignNo()
+RegistrationForm()

Lab Asistant
-TestResults : string
-AsistantID : int
+PerformTest()
+GenerateResult()
+UpdatePatientsinfo()

Pharmacy
-Medicine : string
-PharmacistID : int
-attribute
+PrepareMedicine()

Cashier
-Payment : int
-PatientID : int
+CreateInvoice()
+ViewPatientPaymetHistory()
+TotalBill()
+UpdatePatientaccount()

ASSOCIATIONS:

Doctor will take result of the report which lab assistant created from patient string
Test Result, and according to that perform operation method will perform accordingly.

Receptionist will have access to all to the information related all
the above classes:

Patients | Reception | HMS | Person | Doctor | Junior Doctor | Gender | Nurse | Lab | Wards | Exit

FirstgotoReception()

PatientsRegister()
getPatientsDatiel()

DoctorAvailable()
goingtoDoctor
MaleorFemale

Doctor-gender

ifDoctorisnoavailable()
MaleorFemale

MaleorFemale

Doctor-gender

Help()
sendingForTest

TestCheck()

Help()
getseriousPatients()

Registerinwards()

Help()
getNormalPatients()