## Assignment-01 Object Oriented Programming

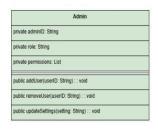
## **UML Class Diagrams for Remote Health Monitoring System**

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Here is the UML diagram of all the classes and their attributes and methods I created. Their visibility modifiers and return types are also mentioned as indicated in the assignment manual. With no relationships among them as instructed, however I arranged them in hierarchical form for understanding the diagram. Thank you!







	Patient
private PatientN	rne: String
private patientN	String
private age: int	
private gender:	tring
private History:	tring
private attendee	s String
public register()	void
public viewMedi	alRecords()::void
public bookAppo	intment(doctorID: String, date: String) : : void
public updateInf	()::void

Doctor	
private drName: String	
private drID: String	
private specialist: String	
private drPosition: int	
private timings: String	
private contact: String	
public Appointment(patientID: String, date: String) :: void	
public updateRecord(patientID: String, data: String)::void	
public Medication(patientID: String, prescription: String):: void	
public viewAppointments() :: void	

	Department
private name	e: String
private hodD	ept: String
private conta	act String
private numb	perOfStaff: int
public addDe	epartment(name: String) ; ; void
public update	eDepartment(id: String) : : void
public listDo	ctors()::void

Chat	
rivate DoctorRep: String	
rivate PatientRep: String	
rivate timings: String	
rivate Topic: String	
rivate ChatIdNo: String	
ublic sendMessage(message: String) ; ; void	
ublic receiveMessage() : : String	
ublic deleteMessage(chatID: String)::void	

	Appointment
private appointmentNo.: String	
private date: String	
private time: String	
private drID: String	
private patientNo: String	
private status: String	
public Appointment() :: void	
public cancelAppointment(appoi	ntment(D: String) : ; void
public RescheduleAppt(appointr	nentID: String, newDate: String) : : void

MedicalRecords	
private recordid: String	
private patientNo: String	
private vitals: String	
private appointments: String	
private drld: String	
public addRecord(record: String) :: void	
public updateRecord(recordID: String, data: String) : : void	
public getHistory():: List	

	KitRecord	
priv	rate AvailableKit: String	
priv	rate InUseKit: String	
priv	rate TobeRepaired: String	
priv	rate RequiredList: String	
put	olic GetKit():: void	
put	nlic BuyKit() : : String	
put	olic DiscardKit() :: void	

Bills	
priv	rate billAmount: String
priv	rate patientNo: String
priv	rate totalAmount: double
priv	rate SubmitDate: String
priv	rate paymentStatus: String
put	olic generateBill(patientID: String):: void
put	olic processPayment(billiD: String, amount: double)::void
put	olic sendInvoice(patientID: String) : : void