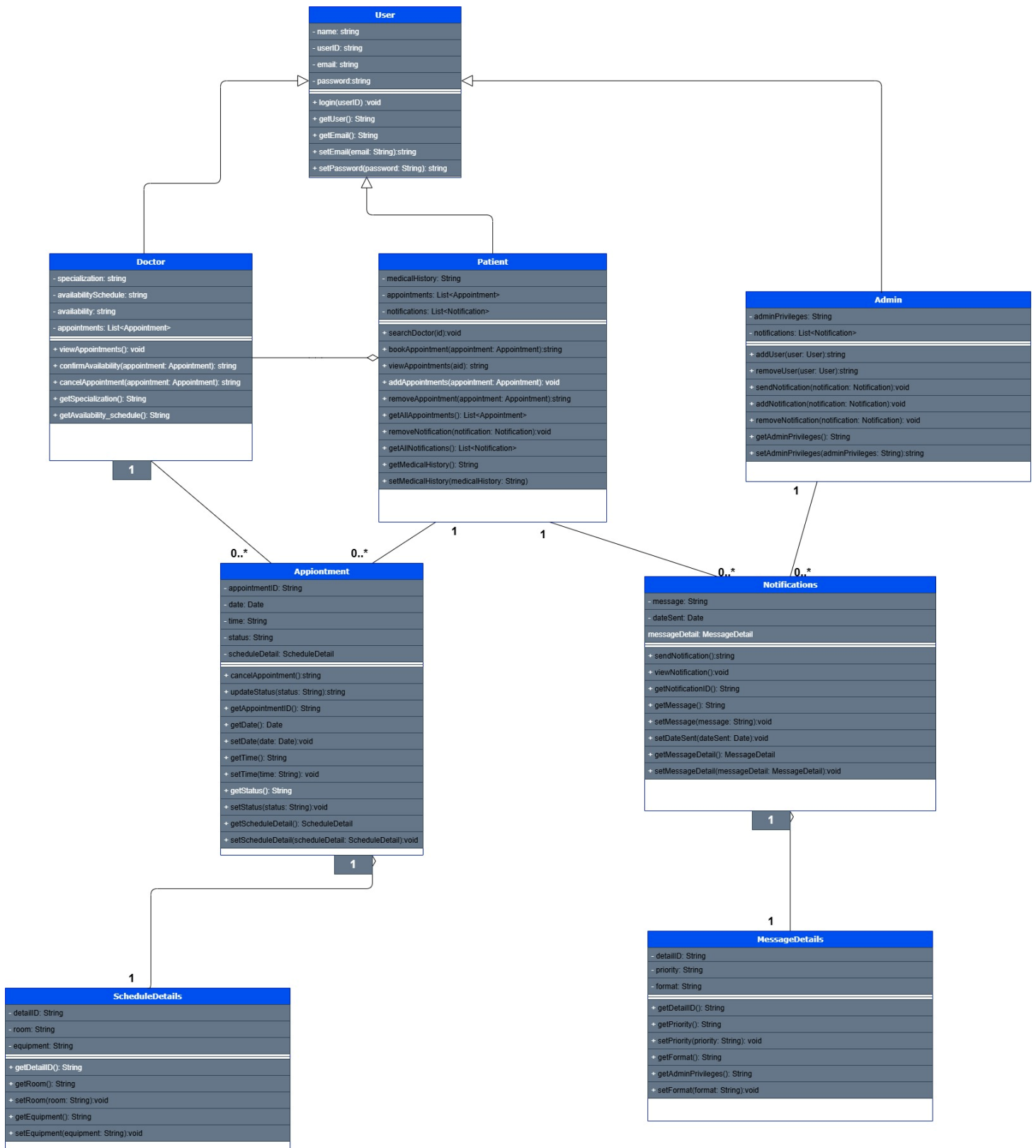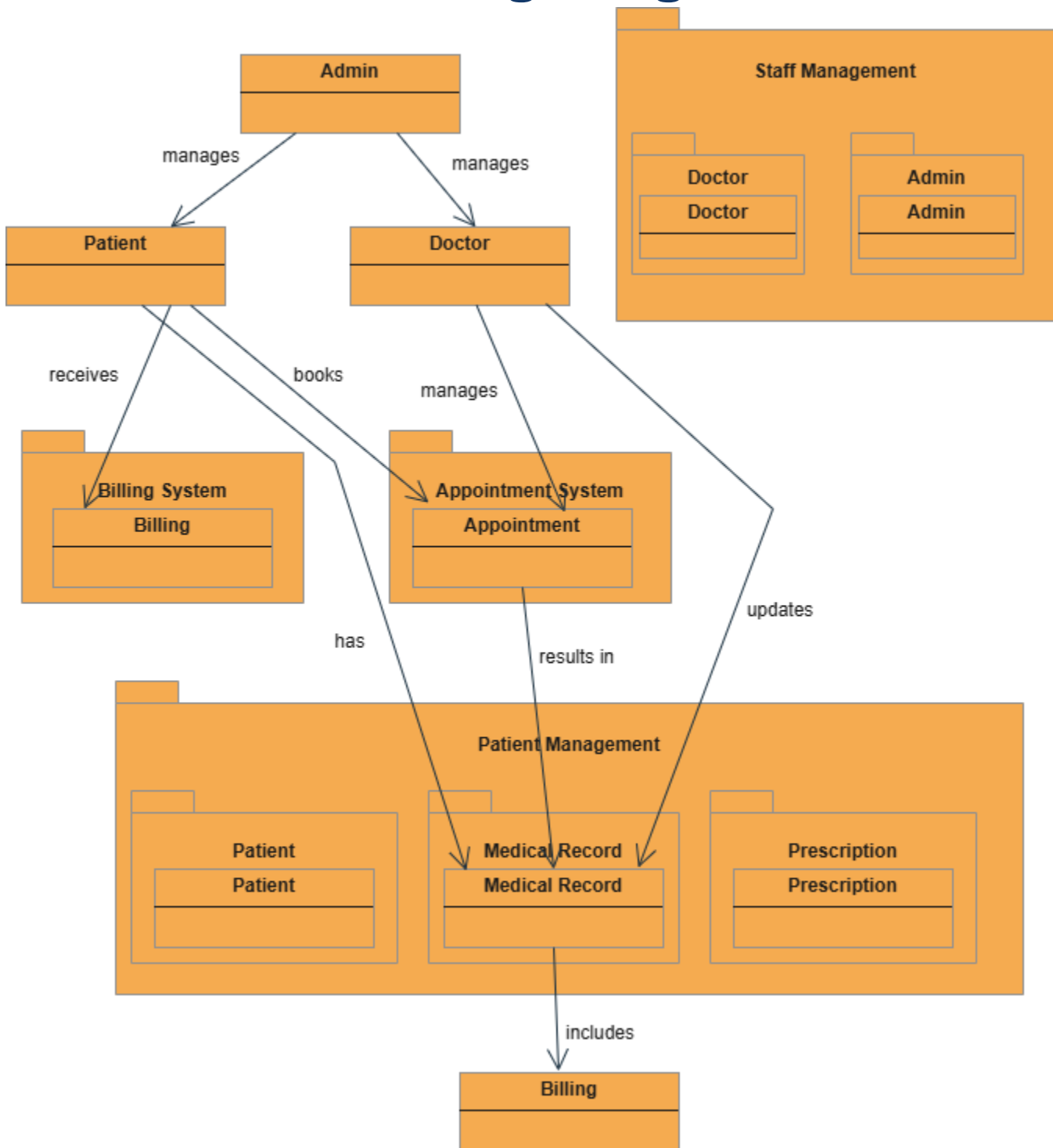# HEALTH CARE SYSTEM

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Class Diagram

User
- name: string
- userID: string
- email: string
- password:string

+ login(userID) :void
+ getUser(): String
+ getEmail(): String
+ setEmail(email: String):string
+ setPassword(password: String): string

Doctor
- specialization: string
- availabilitySchedule: string
- availability: string
- appoinments: List<Appointment>

+ viewAppointments(): void
+ confirmAvailability(appointment: Appointment): string
+ cancelAppointment(appointment: Appointment): string
+ getSpecialization(): String
+ getAvailability_schedule(): String

Patient
- medicalHistory: String
- appointments: List<Appointment>
- notifications: List<Notification>

- searchDoctor(id):void
- bookAppointment(appointment: Appointment):string
- viewAppointments(aid): string
+ addAppointments(appointment: Appointment): void
- removeAppointment(appointment: Appointment):string
- getAllAppointments(): List<Appointment>
- removeNotification(notification: Notification):void
- getAllNotifications(): List<Notification>
- getMedicalHistory(): String
- setMedicalHistory(medicalHistory: String)

Admin
- adminPrivileges: String
- notifications: List<Notification>

• addUser(user: User):string
• removeUser(user: User):string
• sendNotification(notification: Notification):void
• addNotification(notification: Notification):void
• removeNotification(notification: Notification): void
• getAdminPrivileges(): String
• setAdminPrivileges(adminPrivileges: String):string

Appoinment
- appointmentID: String
- date: Date
- time: String
- status: String
- scheduleDetail: ScheduleDetail

+ cancelAppointment():string
• updateStatus(status: String):string
+ getAppointmentID(): String
+ getDate(): Date
• setDate(date: Date):void
• getTime(): String
• setTime(time: String): void
+ getStatus(): String
• setStatus(status: String):void
• getScheduleDetail(): ScheduleDetail
• setScheduleDetail(scheduleDetail: ScheduleDetail):void

Notifications
- message: String
- dateSent: Date
- messageDetail: MessageDetail

• sendNotification():string
• viewNotification():void
• getNotificationID(): String
• getMessage(): String
• setMessage(message: String):void
• setDateSent(dateSent: Date):void
• getMessageDetail(): MessageDetail
• setMessageDetail(messageDetail: MessageDetail):void

ScheduleDetails
- detailID: String
- room: String
- equipment: String

+ getDetailID(): String
+ getRoom(): String
+ setRoom(room: String):void
+ getEquipment(): String
+ setEquipment(equipment: String):void

MessageDetails
- detailID: String
- priority: String
- format: String

• getDetailID(): String
• getPriority(): String
• setPriority(priority: String): void
• getFormat(): String
• getAdminPrivileges(): String
• setFormat(format: String):void

1   0..*   0..*   1   1   0..*   0..*   1   1   1
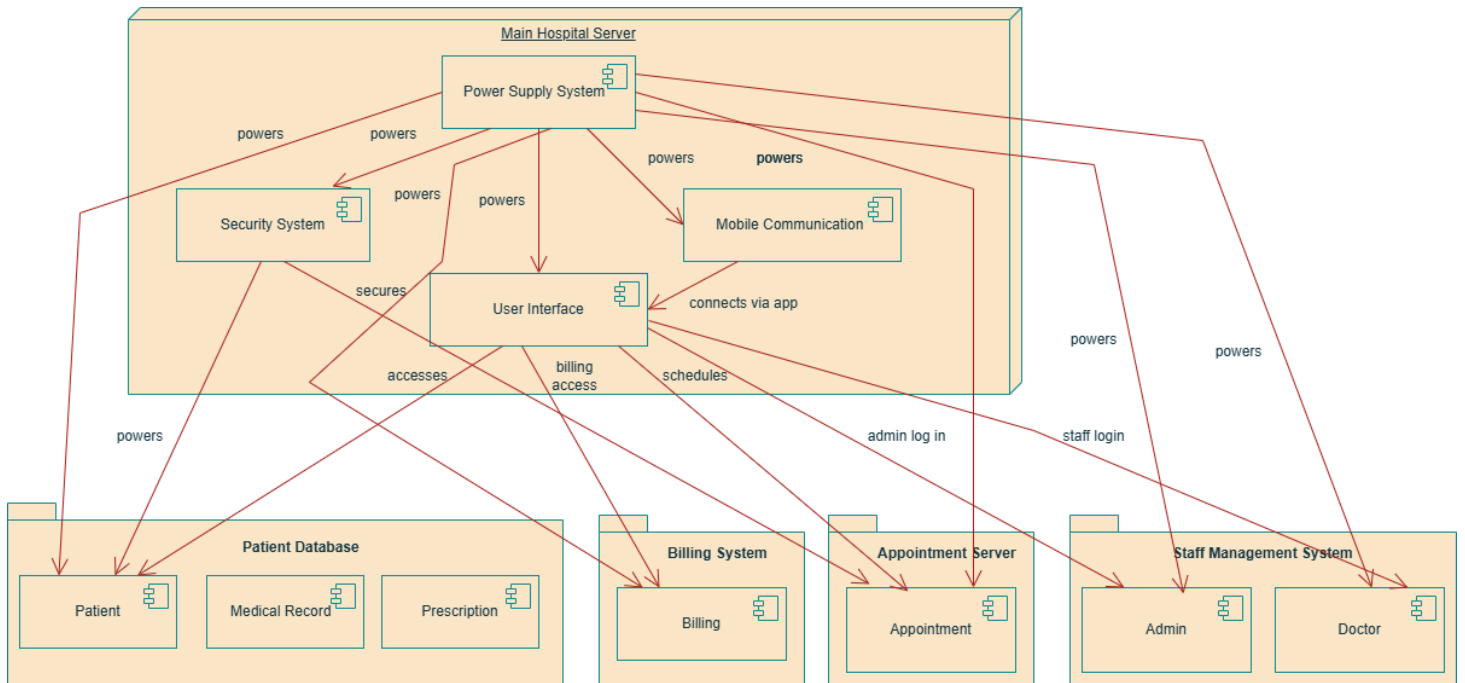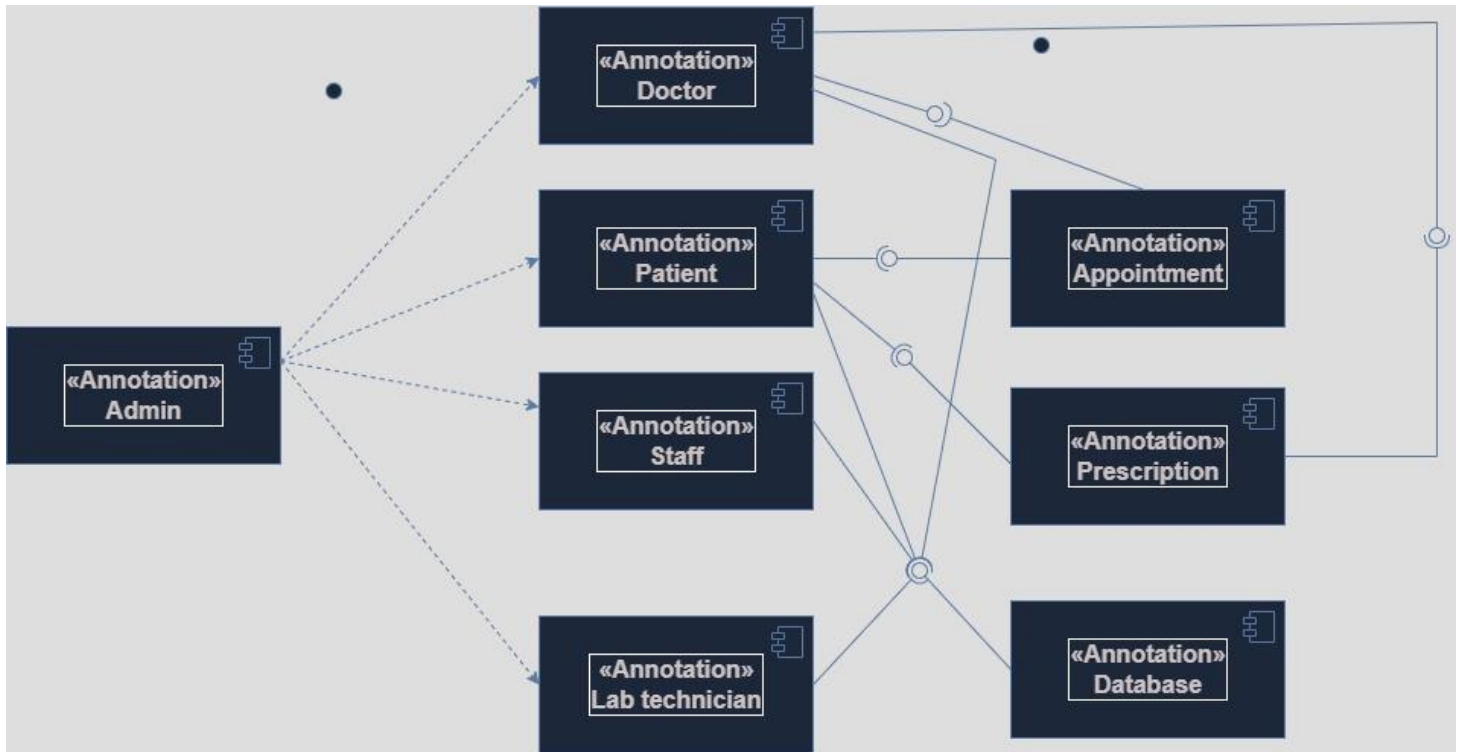
Package diagram

Deployment diagram

Component diagram

Sequence diagram