

User (Abstract Class)
<div>+ GetUsername(id):String</div> <div>+ GetPassword(patient_id):String</div> <div>+ GetPhoneNumber(id):String</div> <div>+ GetEmail(id):String</div> <div>+ GetAddress(id):String</div> <div>+ UpdateUsername(id):String</div> <div>+ UpdatePassword(patient_id):String</div> <div>+ UpdatePhoneNumber(id):String</div> <div>+ UpdateEmail(id):String</div> <div>+ UpdateAddress(id):String</div>

User Database
<div>Username</div> <div>User Password</div> <div>Phone Number</div> <div>Email</div> <div>Address</div> <div>User Type (Patient or Doctor)</div>

Patient Database
<div>Medical Records</div> <div>Lab Reports</div>

Doctor Database
<div>Specialization</div>

Patient
<div>+ favoritedDoctors:SortedArray</div> <div>+ watchedOrganDonors: SortedArray</div> <div>+ validPerscriptions:SortedArray</div> <div>+ expiredPerscriptions:SortedArray</div> <div>+ medicalRecommendations:SortedArray</div> <div>+ upcomingAppointments:LinkedList</div> <div>+ previousAppointments:LinkedList</div> <div>+ patientsDatabase</div> <div>+ doctorsDatabase</div> <div>+ userDatabase</div> <div>+ donating:boolean</div> <div>+donationType:SotredArray</div>
<div>+ GetMedicalRecommendation():</div> <div>+ GetPerscription():</div> <div>+ GetLabReport():</div> <div>+ GetMedicalRecords():</div> <div>+ UpdateMedicalRecords():</div> <div>+ RemoveMedicalRecords():</div>
<div>+ GetFavoritedDoctors():</div> <div>+ GetWatchedOrganDonors():</div> <div>+ FavoriteDoctor():</div> <div>+ WatchOrganDonor():</div>
<div>+ ReturnPublicIDForWatchlist():id</div> <div>+ GetUpcomingAppointments():</div>
<div>RemoveOrganDonation(Organ):boolean</div>

Doctor
<div>+ patientsTreated:SortedArray</div> <div>+ upcomingAppointments:LinkedList</div> <div>+ previousAppointments:LinkedList</div>
<div>+ SetAppointmentAvailability():boolean</div> <div>+ ReturnPublicIDForFavorites():id</div>
<div>+ AddOrganDonation(patientName, Organ):boolean</div> <div>RemoveOrganDonation(Organ):boolean</div>
<div>+ UpdateMedicalRecords(patientName, file):boolean</div> <div>+ UpdateLabReports(patientName, file):boolean</div> <div>+ RemoveMedicalRecord(patientName):boolean</div> <div>+ RemoveLabReport(patientName):boolean</div>
<div>+ CreatePerscription(patientName, ...):</div> <div>+ CreateMedicalRecommendation(patientName, ...):</div>

MedicalRecommendation
<div>+ recommendationDatabase</div>
<div>MedicalRecommendation(String, int, String, int, String, ?)</div>
<div>M+ UpdatePatientName(String):boolean</div> <div>- UpdatePatientID(int):boolean</div> <div>+ UpdateDoctorName(String):boolean</div> <div>- UpdateDoctorID(int):boolean</div> <div>+ UpdateRecommendationDetails(String):boolean</div> <div>+ UpdateRecommendationDate(?):boolean</div> <div>+ RemoveRecommendation():boolean</div>

Perscription
<div>+ perscriptionDatabase</div>
<div>Perscription(String, float, float, String, int, String, int, String, ?, ?)</div>
<div>+ UpdatePerscriptionType(String):boolean</div> <div>+ UpdatePerscriptionAmount(float):boolean</div> <div>+ UpdatePerscriptionStrength(float):boolean</div> <div>+ UpdatePatientName(String):boolean</div> <div>- UpdatePatientID(int):boolean</div> <div>+ UpdateDoctorName(String):boolean</div> <div>- UpdateDoctorID(int):boolean</div> <div>+ UpdatePerscriptionDetails(String):boolean</div> <div>+ UpdateValidPerscriptionBeginDate(?):boolean</div> <div>+ UpdateValidPerscriptionEndDate(?):boolean</div> <div>+ RemovePerscription():boolean</div>

AccountController
<div>+ FindPatient(patientName):</div> <div>+ FindDoctor(name):</div> <div>+ FindSpecialist(specialization):SortedArray</div> <div>+ FindDonor(organ):SortedArray</div> <div>+ ViewAppointments(specialization):SortedArray</div> <div>+ ReserveAppointment():</div> <div>+ ViewDoctorAppointments(doctorName):bool</div> <div>+ EnterVirtualAppointmentRoom():</div> <div>Logout():bool</div>

HomePageController
<div>+ CreateAccount(username, password, email, address, phoneNumber):bool</div> <div>Login(username, password):bool</div>

/something