CSCE3513 SOFTWARE ENGINEERING PROJECT
GROUP 3 | PHARMACY SHOT TRACKING

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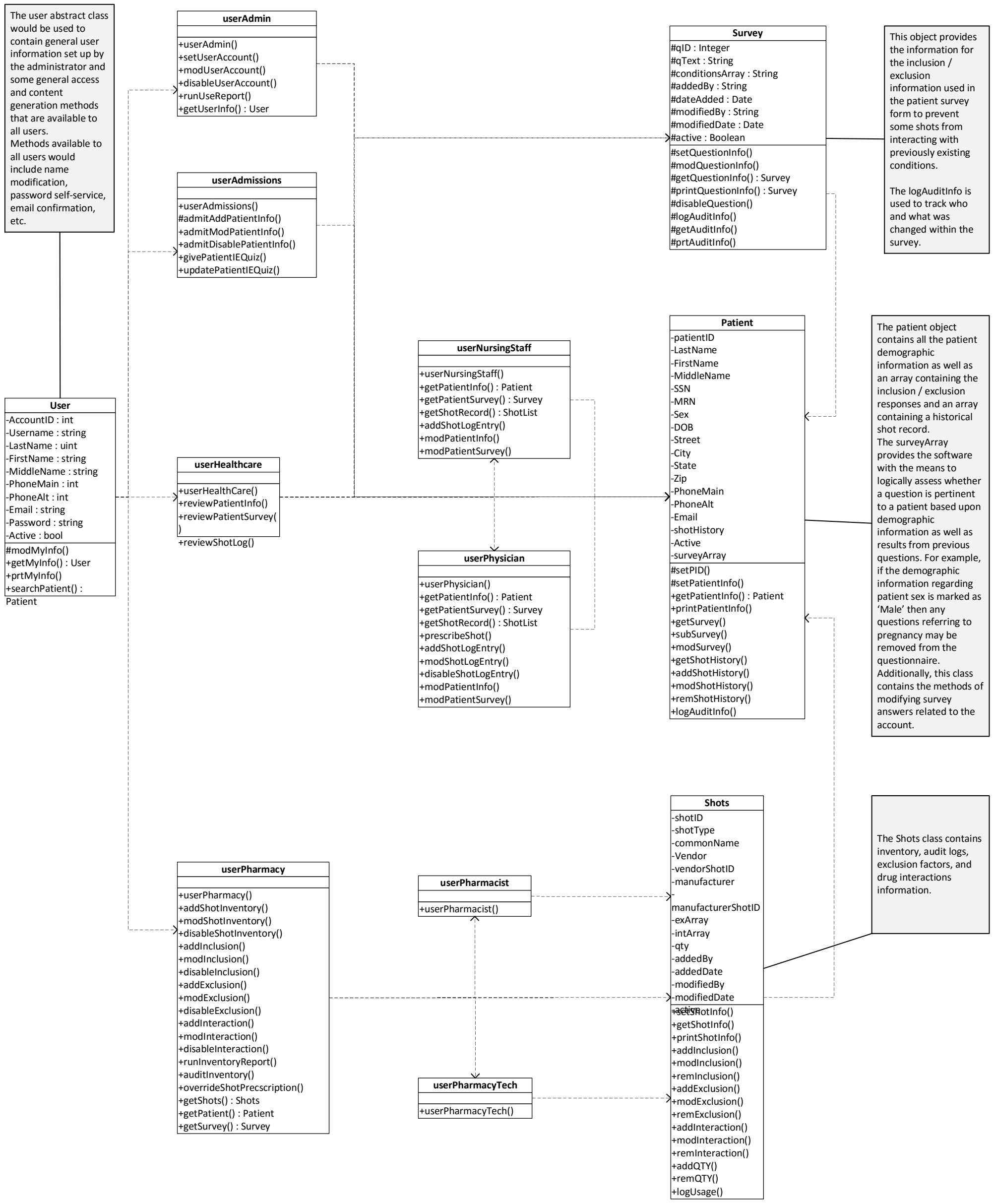

The user abstract class would be used to contain general user information set up by the administrator and some general access and content generation methods that are available to all users.
Methods available to all users would include name modification, password self-service, email confirmation, etc.

User
-AccountID : int
-Username : string
-LastName : uint
-FirstName : string
-MiddleName : string
-PhoneMain : int
-PhoneAlt : int
-Email : string
-Password : string
-Active : bool
#modMyInfo()
+getMyInfo() : User
+prtMyInfo()
+searchPatient() : Patient

userAdmin
+userAdmin()
+setUserAccount()
+modUserAccount()
+disableUserAccount()
+runUseReport()
+getUserInfo() : User

userAdmissions
+userAdmissions()
#admitAddPatientInfo()
+admitModPatientInfo()
+admitDisablePatientInfo()
+givePatientIEQuiz()
+updatePatientIEQuiz()

userHealthcare
+userHealthCare()
+reviewPatientInfo()
+reviewPatientSurvey()
+reviewShotLog()

userNursingStaff
+userNursingStaff()
+getPatientInfo() : Patient
+getPatientSurvey() : Survey
+getShotRecord() : ShotList
+addShotLogEntry()
+modPatientInfo()
+modPatientSurvey()

userPhysician
+userPhysician()
+getPatientInfo() : Patient
+getPatientSurvey() : Survey
+getShotRecord() : ShotList
+prescribeShot()
+addShotLogEntry()
+modShotLogEntry()
+disableShotLogEntry()
+modPatientInfo()
+modPatientSurvey()

userPharmacy
+userPharmacy()
+addShotInventory()
+modShotInventory()
+disableShotInventory()
+addInclusion()
+modInclusion()
+disableInclusion()
+addExclusion()
+modExclusion()
+disableExclusion()
+addInteraction()
+modInteraction()
+disableInteraction()
+runInventoryReport()
+auditInventory()
+overrideShotPrecscription()
+getShots() : Shots
+getPatient() : Patient
+getSurvey() : Survey

userPharmacist
+userPharmacist()

userPharmacyTech
+userPharmacyTech()

Survey
#qID : Integer
#qText : String
#conditionsArray : String
#addedBy : String
#dateAdded : Date
#modifiedBy : String
#modifiedDate : Date
#active : Boolean
#setQuestionInfo()
#modQuestionInfo()
#getQuestionInfo() : Survey
#printQuestionInfo() : Survey
#disableQuestion()
#logAuditInfo()
#getAuditInfo()
#prtAuditInfo()

This object provides the information for the inclusion / exclusion information used in the patient survey form to prevent some shots from interacting with previously existing conditions.

The logAuditInfo is used to track who and what was changed within the survey.

Patient
-patientID
-LastName
-FirstName
-MiddleName
-SSN
-MRN
-Sex
-DOB
-Street
-City
-State
-Zip
-PhoneMain
-PhoneAlt
-Email
-shotHistory
-Active
-surveyArray
#setPID()
#setPatientInfo()
+getPatientInfo() : Patient
+printPatientInfo()
+getSurvey()
+subSurvey()
+modSurvey()
+getShotHistory()
+addShotHistory()
+modShotHistory()
+remShotHistory()
+logAuditInfo()

The patient object contains all the patient demographic information as well as an array containing the inclusion / exclusion responses and an array containing a historical shot record.
The surveyArray provides the software with the means to logically assess whether a question is pertinent to a patient based upon demographic information as well as results from previous questions. For example, if the demographic information regarding patient sex is marked as 'Male' then any questions referring to pregnancy may be removed from the questionnaire. Additionally, this class contains the methods of modifying survey answers related to the account.

Shots
-shotID
-shotType
-commonName
-Vendor
-vendorShotID
-manufacturer
-manufacturerShotID
-exArray
-intArray
-qty
-addedBy
-addedDate
-modifiedBy
-modifiedDate
-active
+setShotInfo()
+getShotInfo()
+printShotInfo()
+addInclusion()
+modInclusion()
+remInclusion()
+addExclusion()
+modExclusion()
+remExclusion()
+addInteraction()
+modInteraction()
+remInteraction()
+addQTY()
+remQTY()
+logUsage()

The Shots class contains inventory, audit logs, exclusion factors, and drug interactions information.