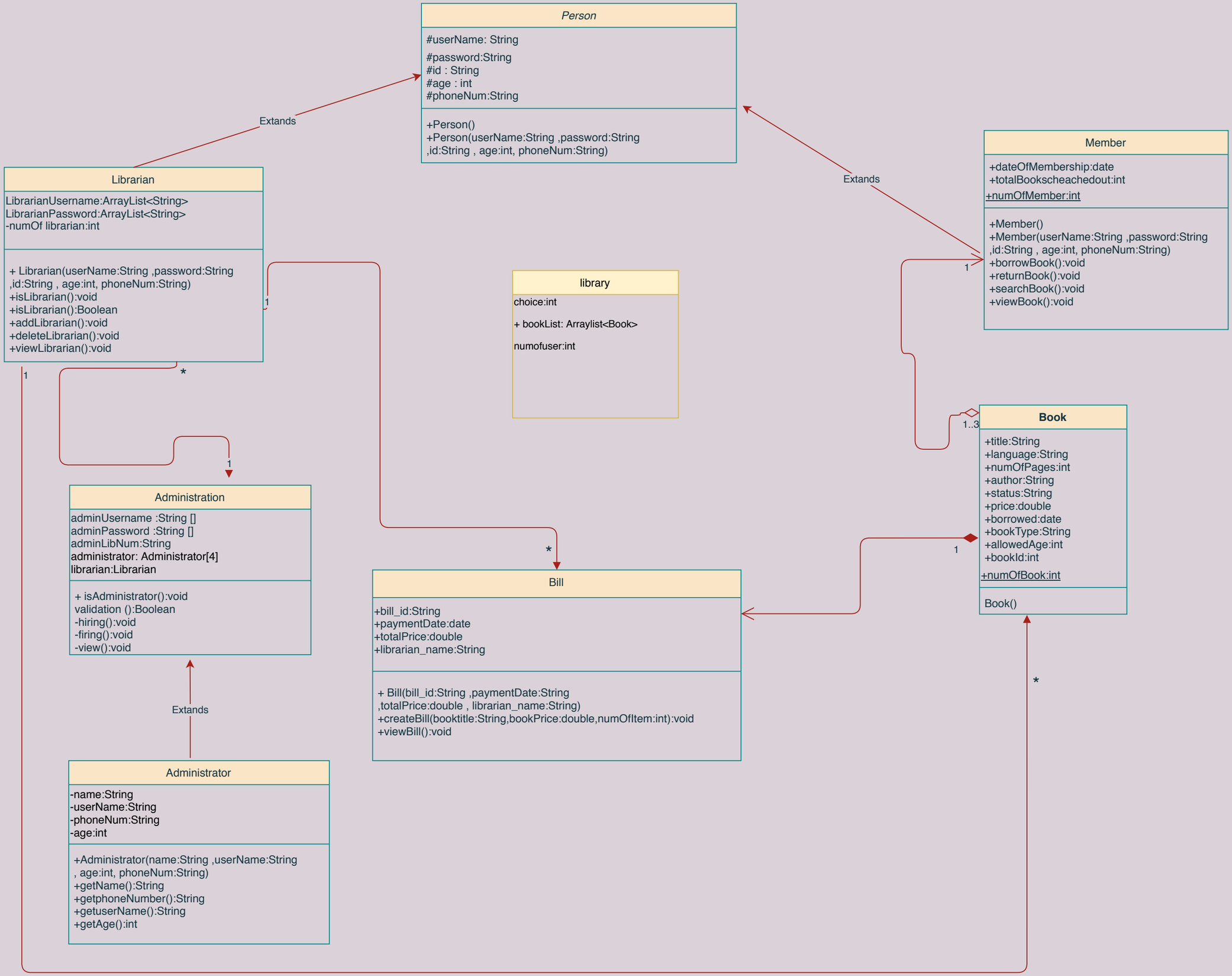
Person
#userName: String
#password:String
#id : String
#age : int
#phoneNum:String
+Person()
+Person(userName:String ,password:String
,id:String , age:int, phoneNum:String)
Extands
Librarian
LibrarianUsername:ArrayList<String>
LibrarianPassword:ArrayList<String>
-numOf librarian:int
+ Librarian(userName:String ,password:String
,id:String , age:int, phoneNum:String)
+isLibrarian():void
+isLibrarian():Boolean
+addLibrarian():void
+deleteLibrarian():void
+viewLibrarian():void
Extands
Member
+dateOfMembership:date
+totalBookscheachedout:int
+numOfMember:int
+Member()
+Member(userName:String ,password:String
,id:String , age:int, phoneNum:String)
+borrowBook():void
+returnBook():void
+searchBook():void
+viewBook():void
library
choice:int
+ bookList: Arraylist<Book>
numofuser:int
Book
+title:String
+language:String
+numOfPages:int
+author:String
+status:String
+price:double
+borrowed:date
+bookType:String
+allowedAge:int
+bookId:int
+numOfBook:int
Book()
Administration
adminUsername :String []
adminPassword :String []
adminLibNum:String
administrator: Administrator[4]
librarian:Librarian
+ isAdministrator():void
validation ():Boolean
-hiring():void
-firing():void
-view():void
Extands
Administrator
-name:String
-userName:String
-phoneNum:String
-age:int
+Administrator(name:String ,userName:String
, age:int, phoneNum:String)
+getName():String
+getphoneNumber():String
+getuserName():String
+getAge():int
Bill
+bill_id:String
+paymentDate:date
+totalPrice:double
+librarian_name:String
+ Bill(bill_id:String ,paymentDate:String
,totalPrice:double , librarian_name:String)
+createBill(booktitle:String,bookPrice:double,numOfItem:int):void
+viewBill():void
1
*
1
1
1..3
1
*
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