

ManagerActor
income:float
fireLibrarian(ma_id:int, L_id:int)
registerLibrarian(ma_id:int, L_id:int, fname:string, lname:string,password:string)
getIncome()
enterMAID()
enterLibrarianID()
enterFirstName()
enterLastName()
enterPassword()

User
users:vector<UserActor>
insert(u_id:int, fname:string, lname:string, password:string)
findAll()
find(u_id:int)
update(user:UserActor)
getUserType(u_id:int)

BookRecord
b_id:int
title:string
author:string
publisher:string
getBookID()
getTitle()
getAuthor()
getPublisher()

Librarian
librarians:vector<LibrarianActor>
insert(L_id:int, fname:string, lname:string, password:string, salary:int, hoursOfWork:int)
findAll()
delete(librarian:LibrarianActor)

Manager
managers:vector<ManagerActor>

UserActor
u_id:int
isLogin:bool
lastActivity:Date&Time
fname:string
lname:string
password:string
login(u_id:int, password:string)
logout(u_id:int)
getUID()
getIsLogin()
getLastActivity()
getFname()
getLname()
getPassword()
setLastActivity(Date:Date&Time)
getIsLogin()
setIsLogin(islogin:bool)

LibrarianActor
salary:int
ma_id:int
hoursOfWork:int
getSalary()
getMaID()
getHoursOfWork()
enterLID()
enterMID
enterFirstName()
enterLastName()
enterPassword()
enterTitle()
enterAuthor()
enterPublisher()
enterBID()
registerMember(m_id:int, fname:string, lname:string, password:string)
addBook(L_id:int, b_id:int, title:string, author:string, publisher:string)

BorrowRecord
u_id:int
b_id:int
from:Date&Time
to:Date&Time
getUID()
getBID()
getFrom()
getTo()

Borrow
borrows:vector<BorrowRecord>
delete(borrowBook:BorrowRecord)
insert(b_id:int, m_id:int, from:Date&Time, to:Date&Time)
findAll()

MemberActor
age:int
phoneNumber:string
enterMID()
getAge()
getPhoneNumber()
enterTitle()
search(title:string, m_ID:int)

Book
books:vector<BookRecord>
find(title:string)
insert(b_id:int, title:string, author:string, publisher:string)
findAll()

Member
members:vector<MemberActor>
insert(m_id:int, fname:string, lname:string, password:string, age:int, phoneNumber:string)
findAll()

Admin
name:string
registerManager(ma_id:int, fname:string, lname:string)