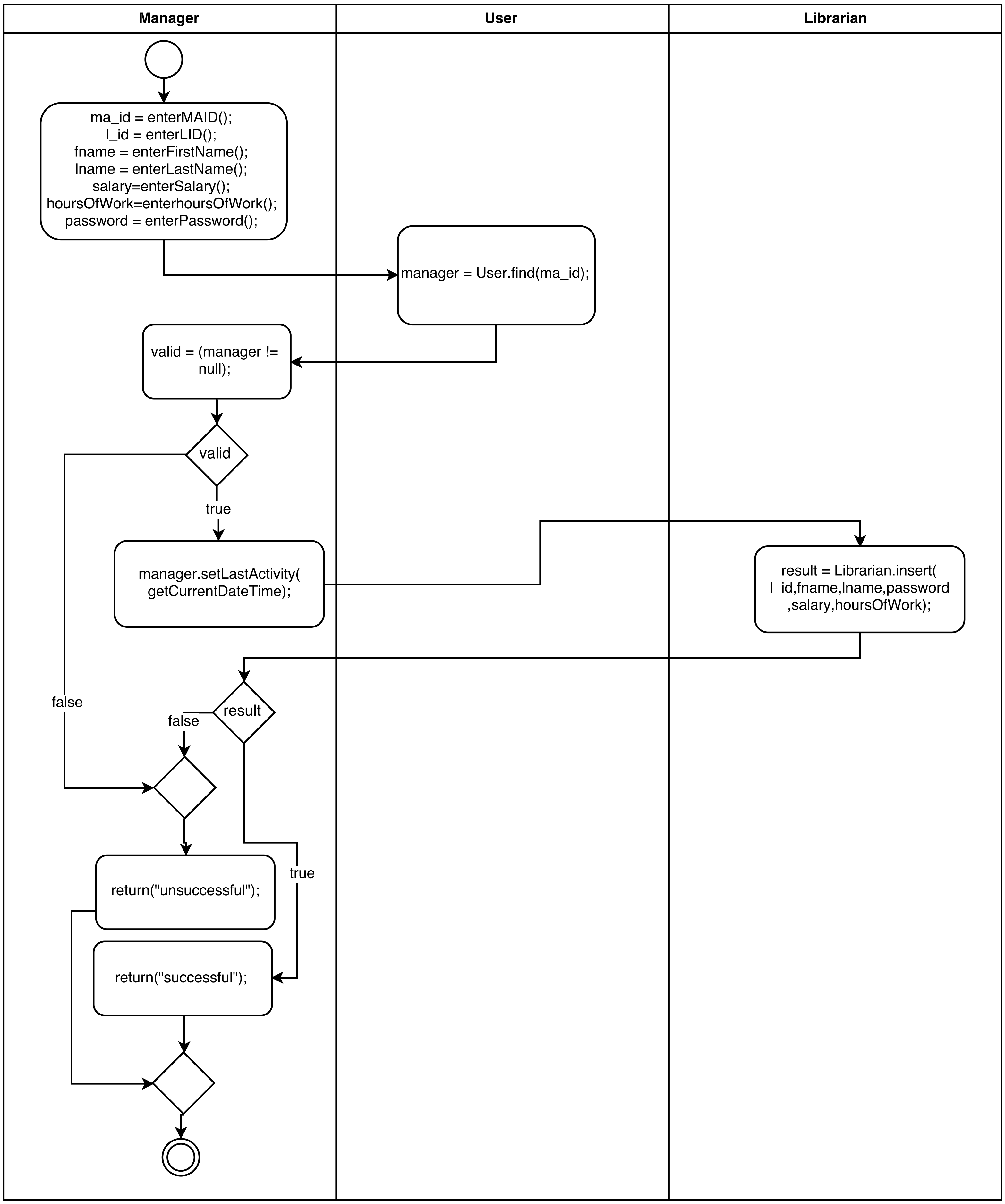
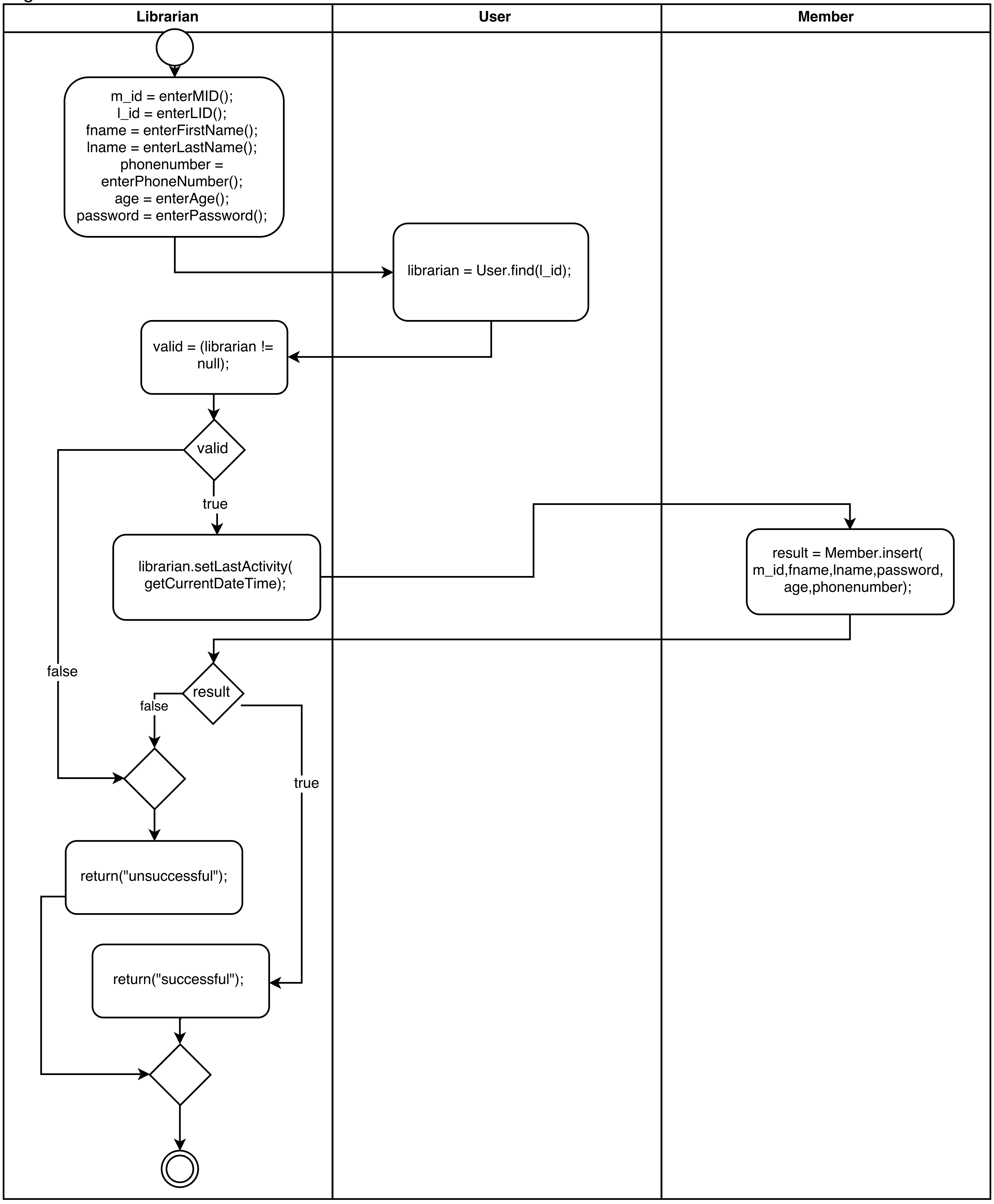
hire librarian

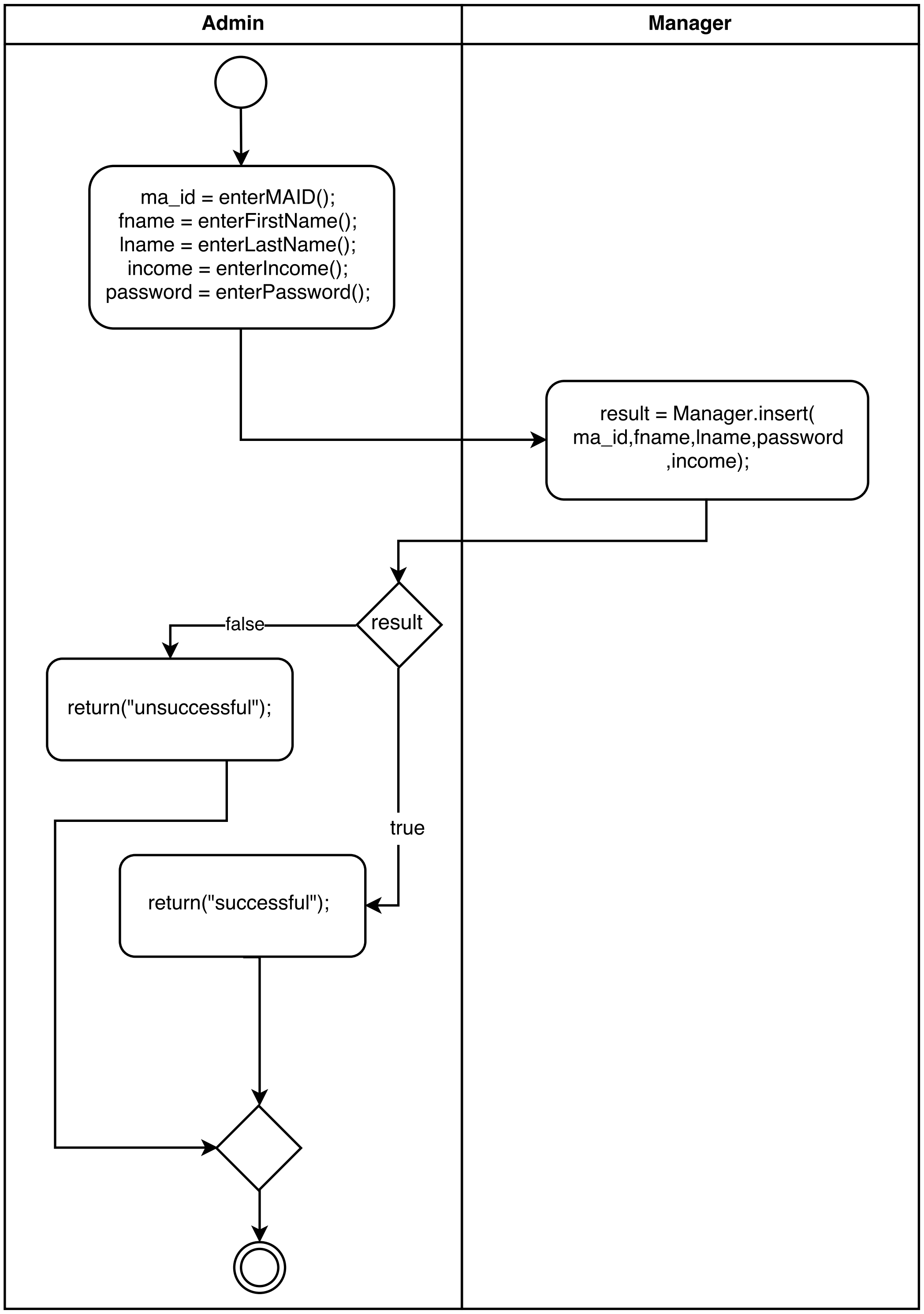


Manager
User
Librarian
ma_id = enterMAID();
l_id = enterLID();
fname = enterFirstName();
lname = enterLastName();
salary=enterSalary();
hoursOfWork=enterhoursOfWork();
password = enterPassword();
manager = User.find(ma_id);
valid = (manager != null);
valid
true
false
manager.setLastActivity(getCurrentDateTime);
result = Librarian.insert(l_id,fname,lname,password ,salary,hoursOfWork);
result
false
true
return("unsuccessful");
return("successful");

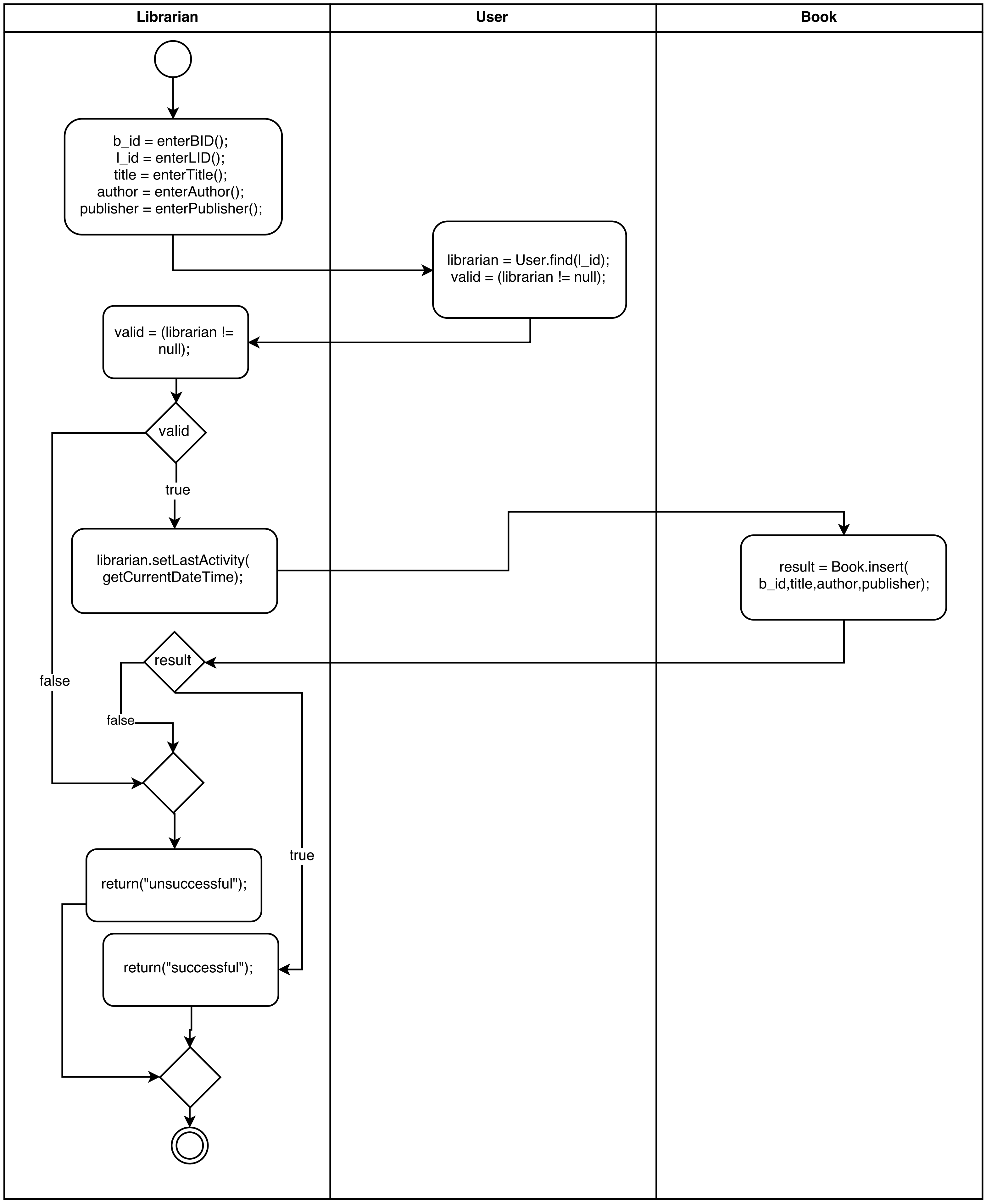
register member


Librarian
User
Member
m_id = enterMID();
l_id = enterLID();
fname = enterFirstName();
lname = enterLastName();
phonenumber = enterPhoneNumber();
age = enterAge();
password = enterPassword();
librarian = User.find(l_id);
valid = (librarian != null);
valid
true
false
librarian.setLastActivity(getCurrentDateTime);
result = Member.insert(m_id,fname,lname,password, age,phonenumber);
result
false
true
return("unsuccessful");
return("successful");

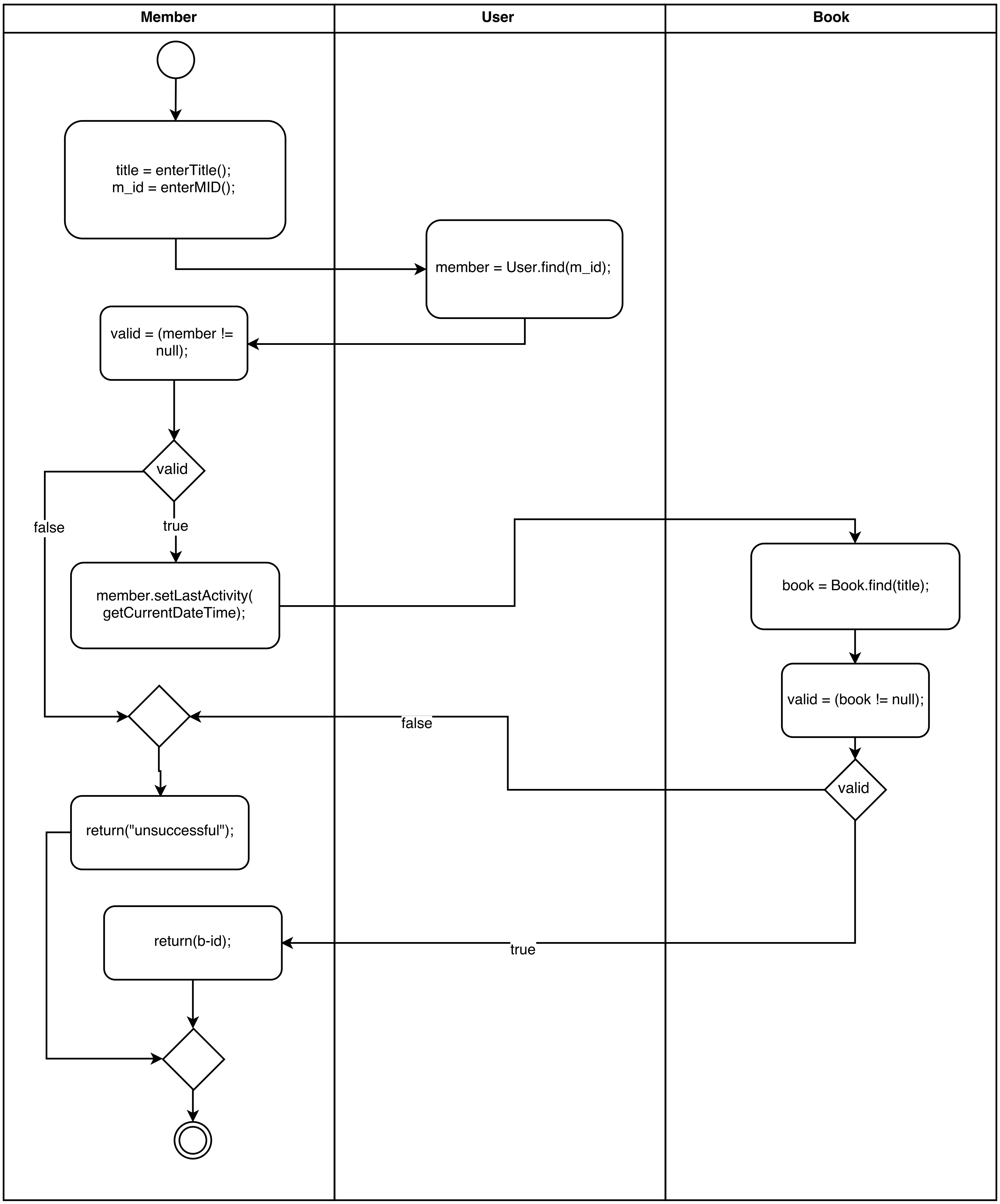
register manager



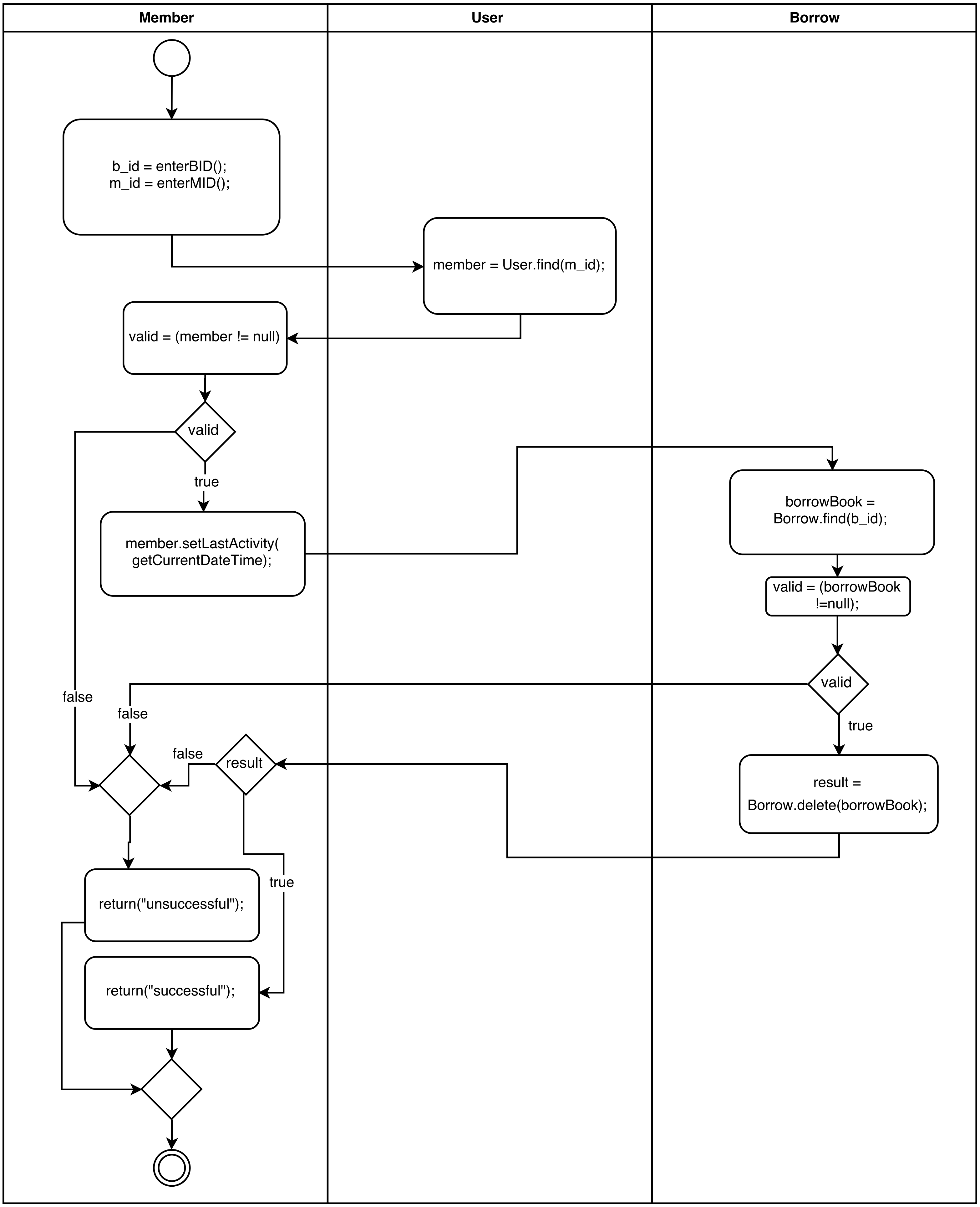
Add book


Librarian
User
Book
b_id = enterBID();
l_id = enterLID();
title = enterTitle();
author = enterAuthor();
publisher = enterPublisher();
librarian = User.find(l_id);
valid = (librarian != null);
valid = (librarian != null);
valid
true
false
librarian.setLastActivity(
getCurrentDateTime);
result = Book.insert(
b_id,title,author,publisher);
result
false
true
return("unsuccessful");
return("successful");

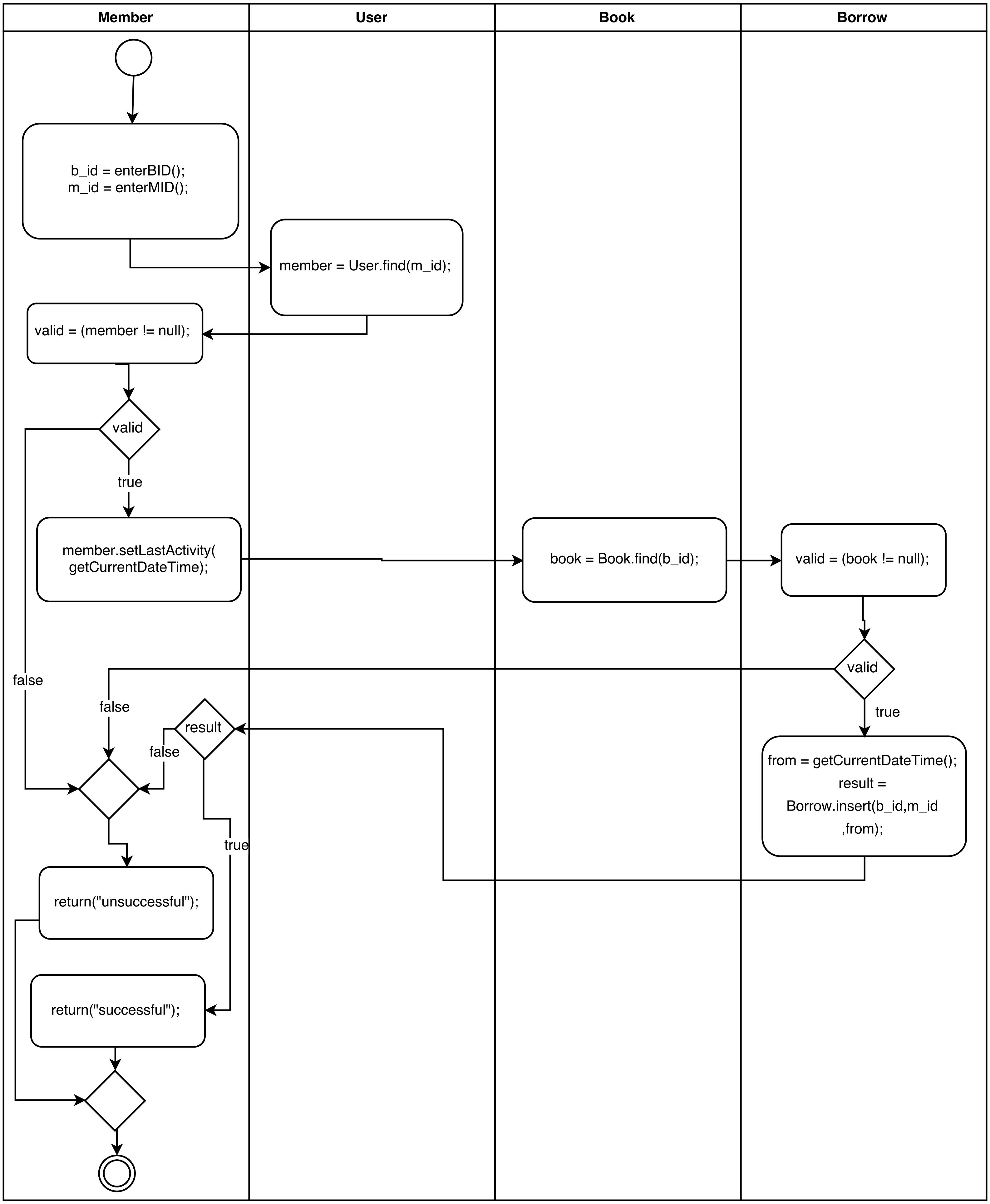
search book


Member
User
Book
title = enterTitle();
m_id = enterMID();
member = User.find(m_id);
valid = (member != null);
valid
false
true
member.setLastActivity(getCurrentDateTime);
book = Book.find(title);
valid = (book != null);
valid
false
return("unsuccessful");
return(b-id);
true

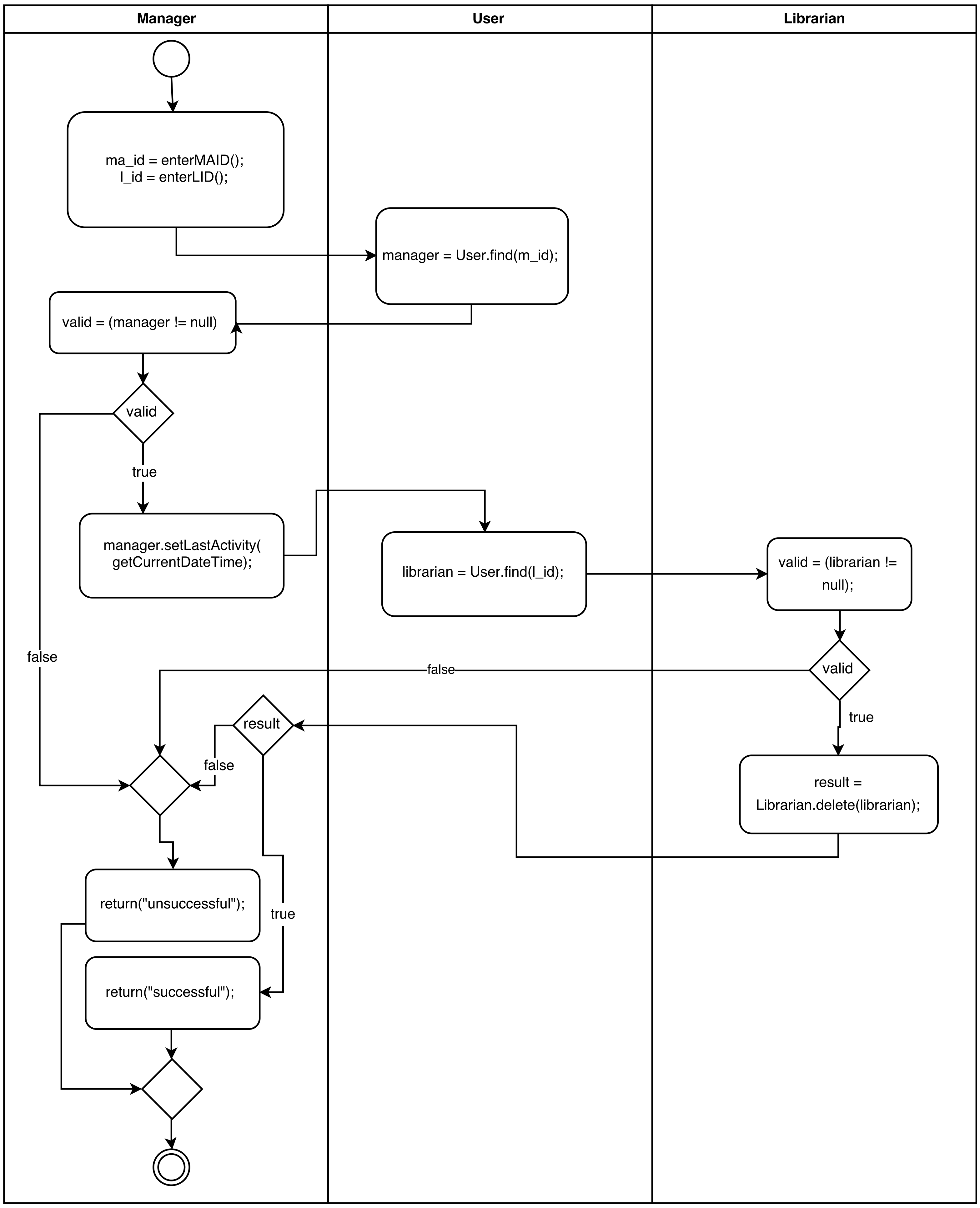
Return book


Member
User
Borrow
b_id = enterBID();
m_id = enterMID();
member = User.find(m_id);
valid = (member != null)
valid
true
false
member.setLastActivity(
getCurrentDateTime);
borrowBook =
Borrow.find(b_id);
valid = (borrowBook
!=null);
valid
true
false
result =
Borrow.delete(borrowBook);
result
false
true
return("unsuccessful");
return("successful");

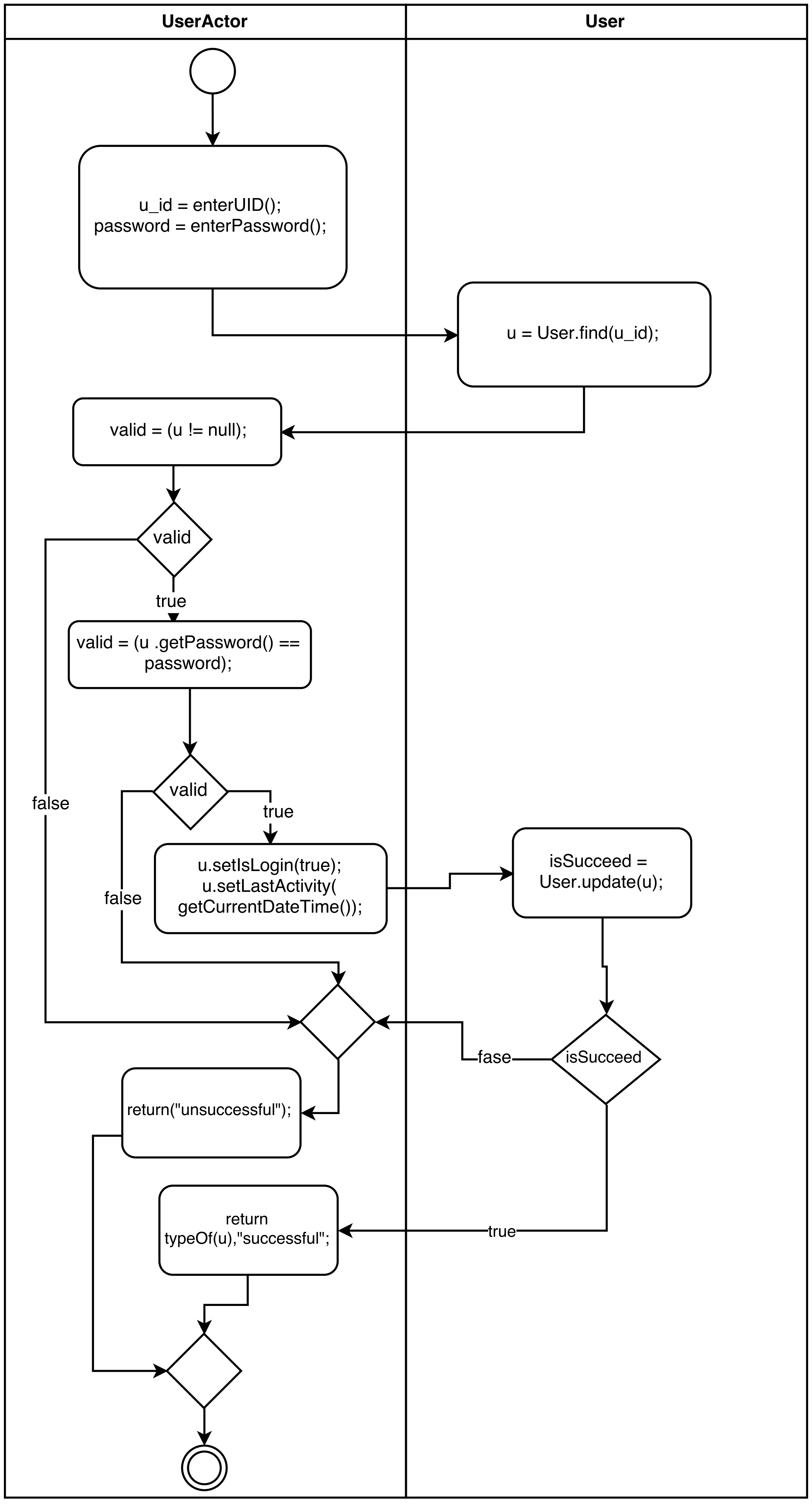
request book



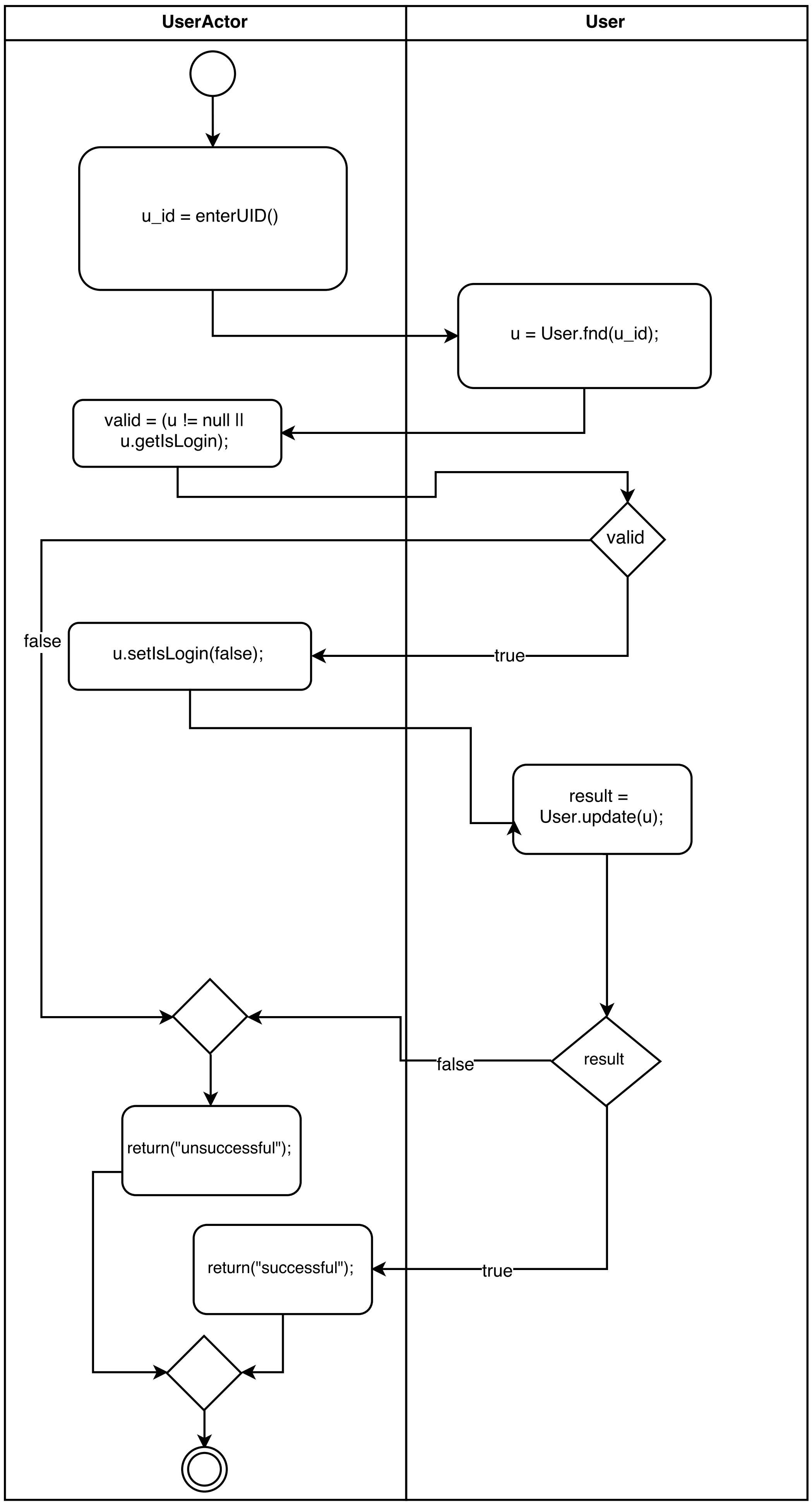
Fire librarian



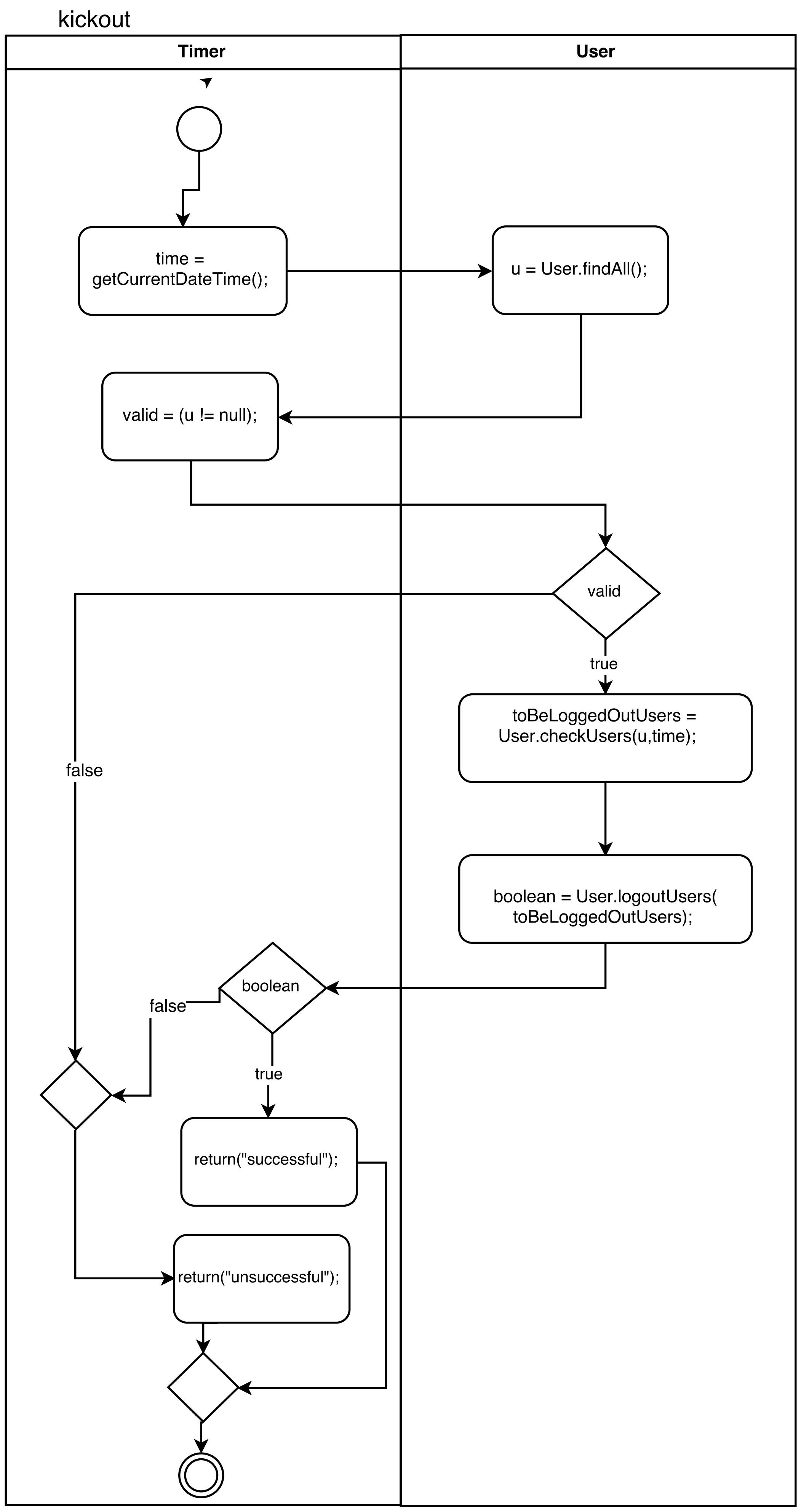
Login


UserActor
User
u_id = enterUID();
password = enterPassword();
u = User.find(u_id);
valid = (u != null);
valid
true
false
valid = (u .getPassword() == password);
valid
true
false
u.setIsLogin(true);
u.setLastActivity(getCurrentDateTime());
isSucceed = User.update(u);
isSucceed
fase
return("unsuccessful");
return typeOf(u),"successful";
true

Logout



UserActor
User
u_id = enterUID()
u = User.fnd(u_id);
valid = (u != null ll u.getIsLogin);
valid
false
true
u.setIsLogin(false);
result = User.update(u);
result
false
true
return("unsuccessful");
return("successful");


kickout
Timer
User
time = getCurrentDateTime();
u = User.findAll();
valid = (u != null);
valid
true
false
toBeLoggedOutUsers = User.checkUsers(u,time);
boolean = User.logoutUsers(toBeLoggedOutUsers);
boolean
false
true
return("successful");
return("unsuccessful");