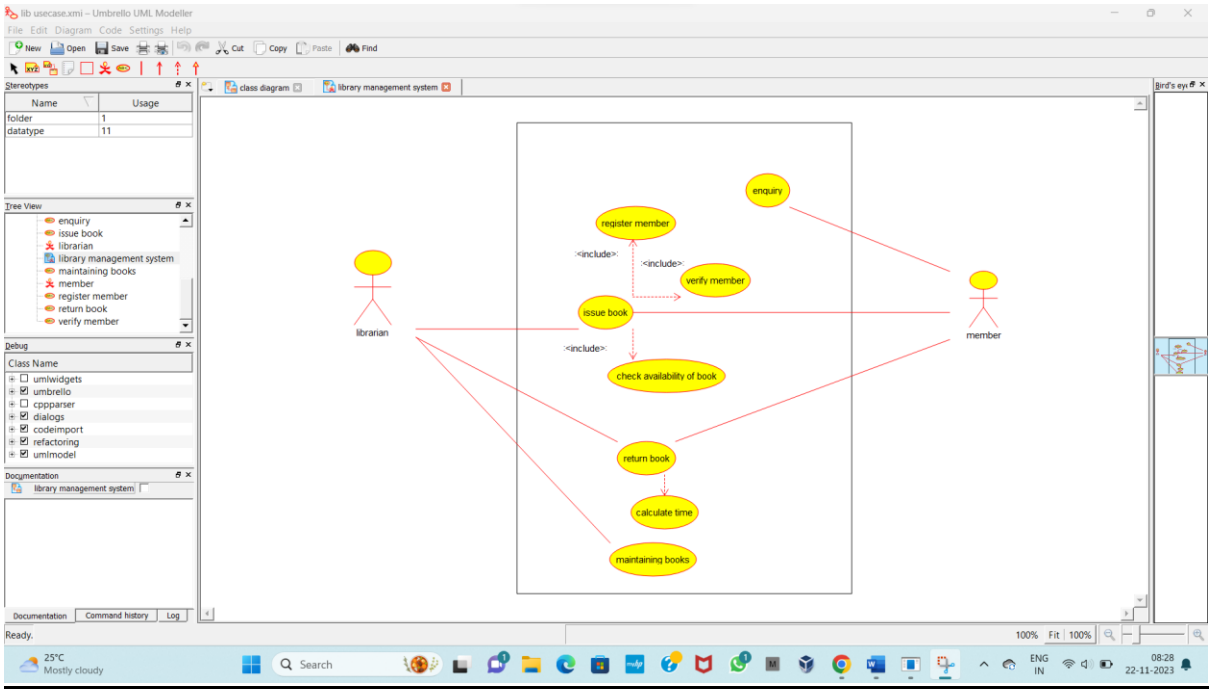
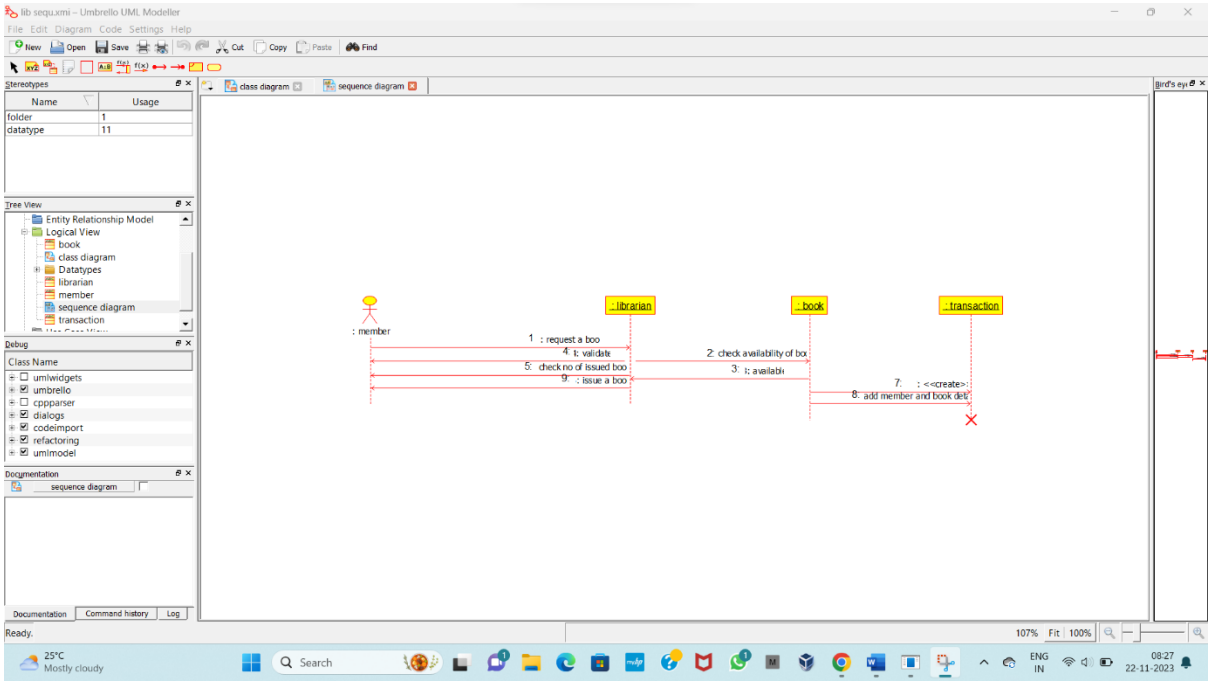
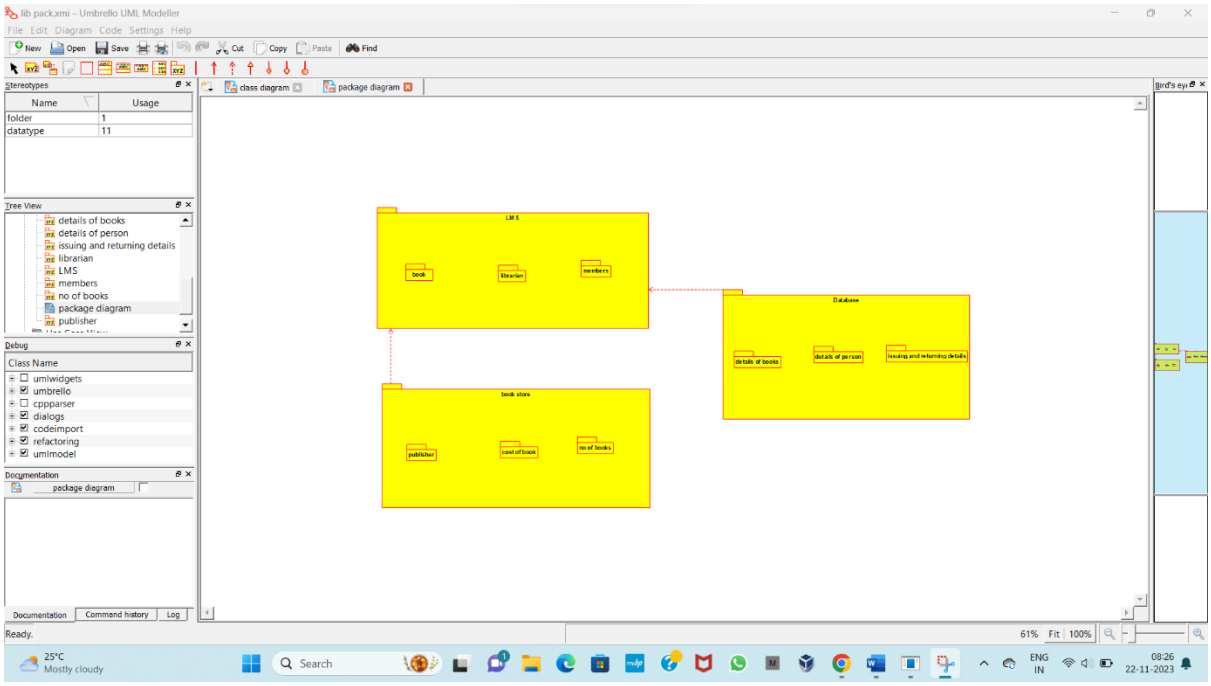
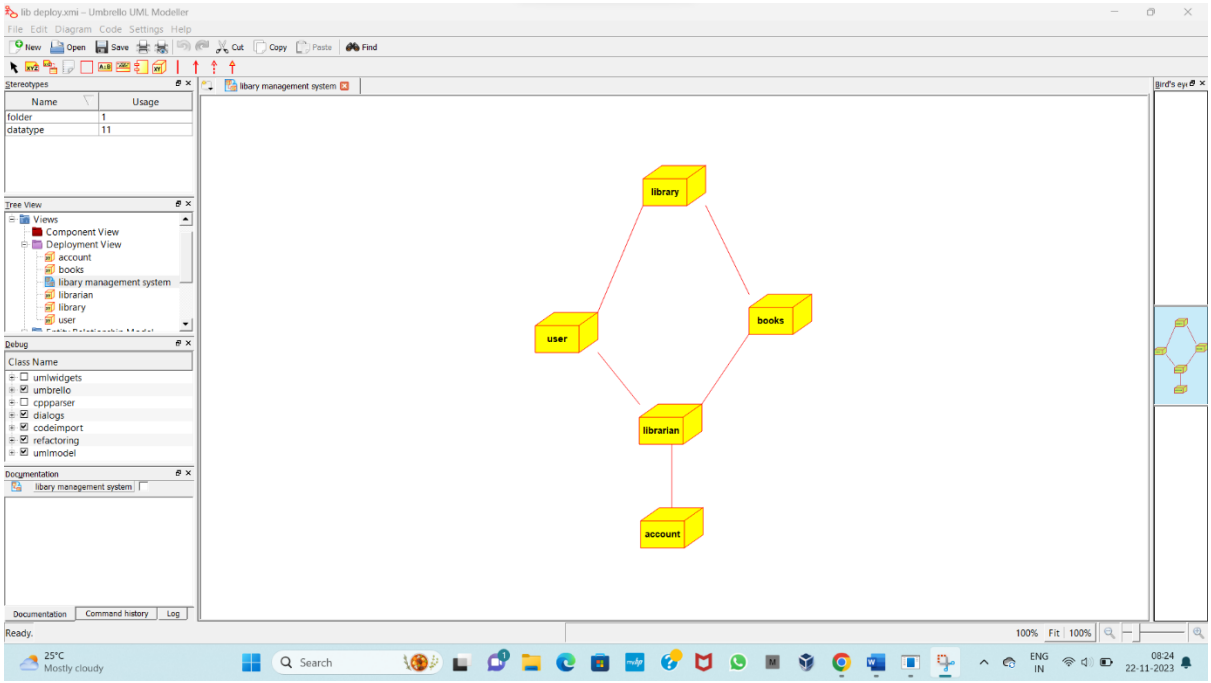
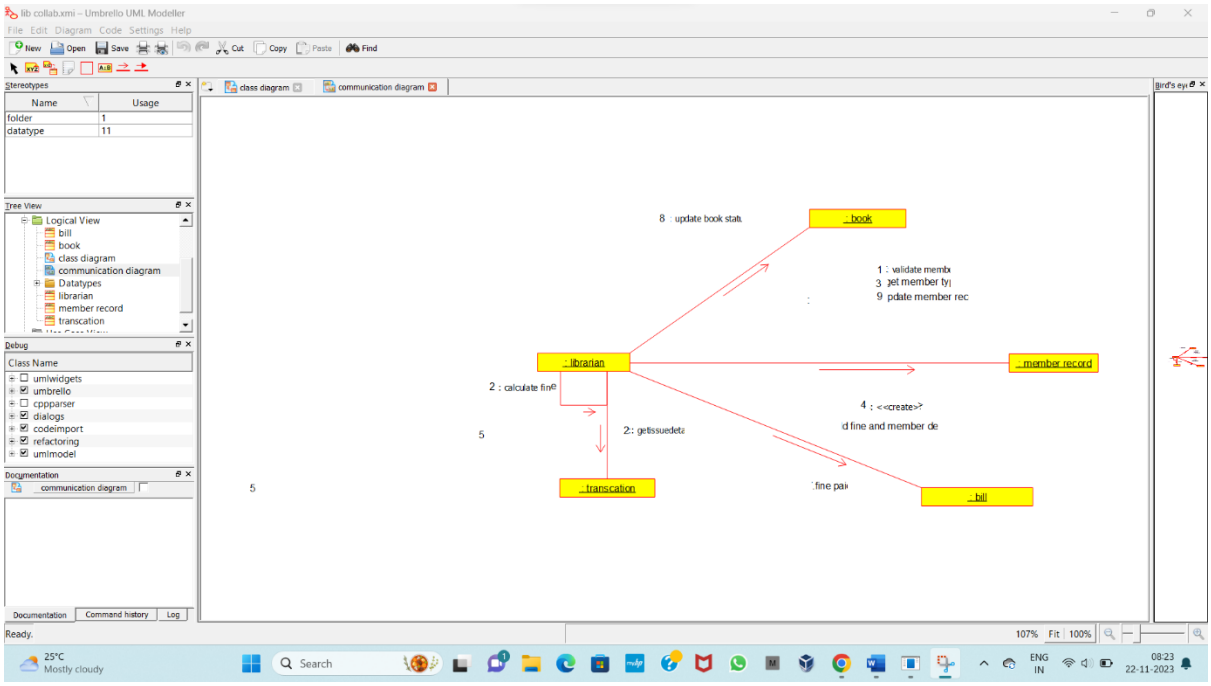
2.LIBRARY MANAGEMENT SYSTEM

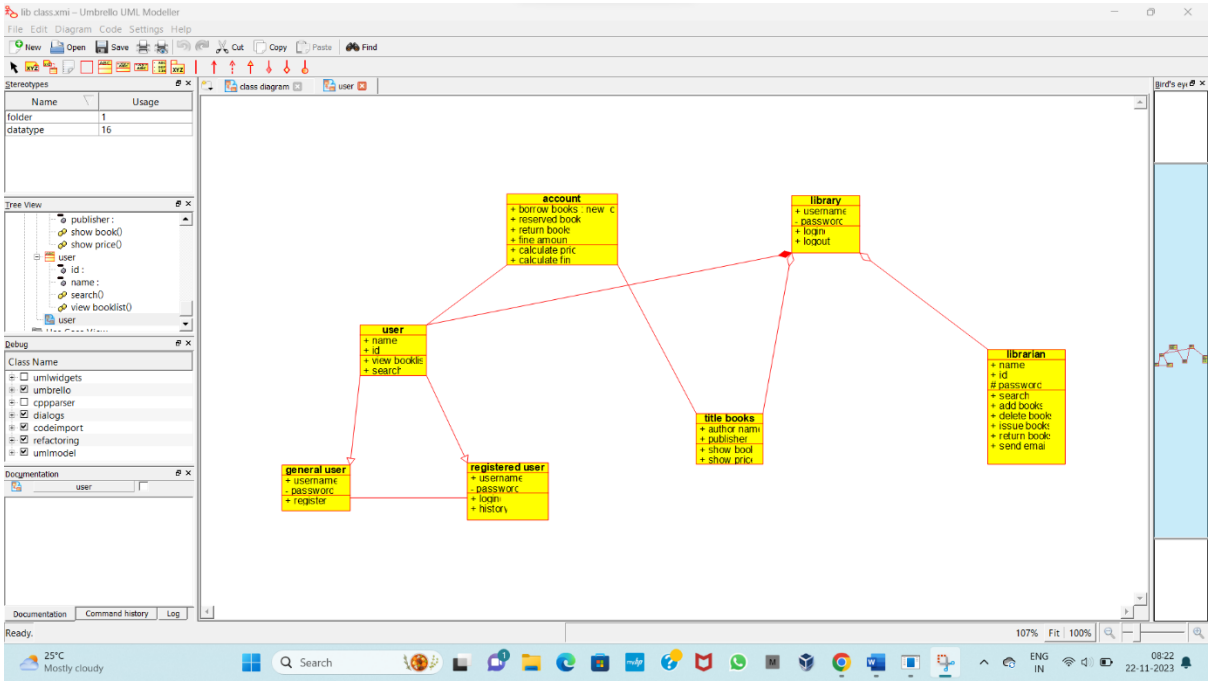


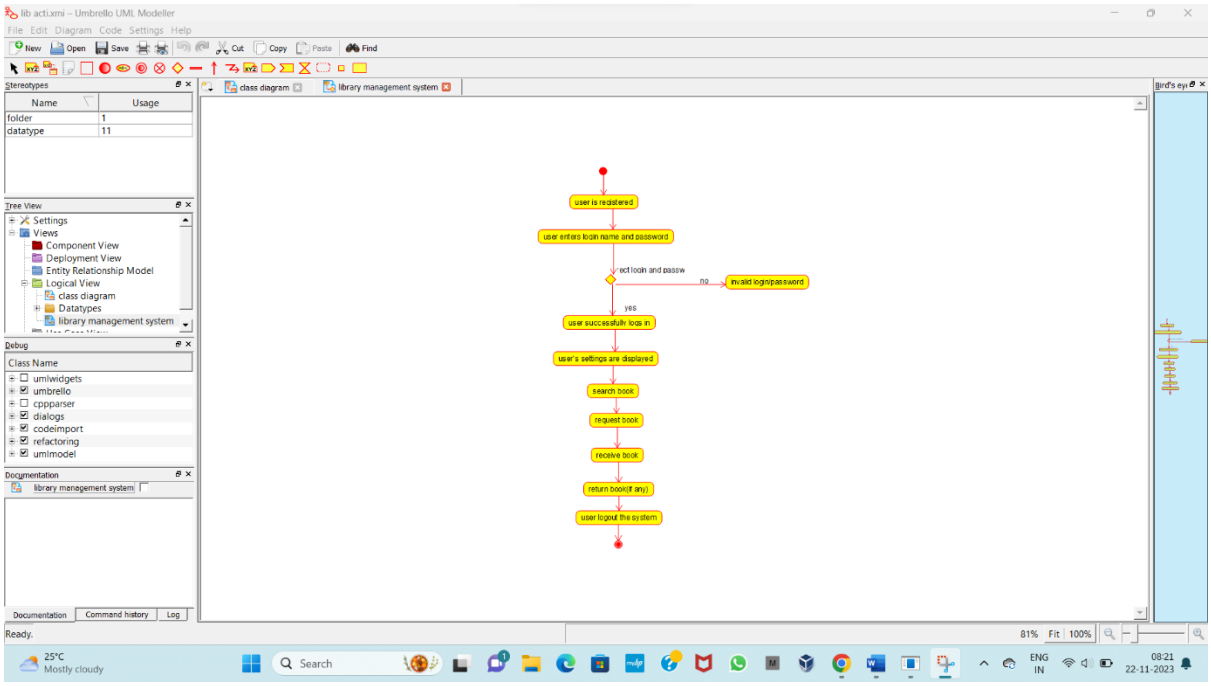


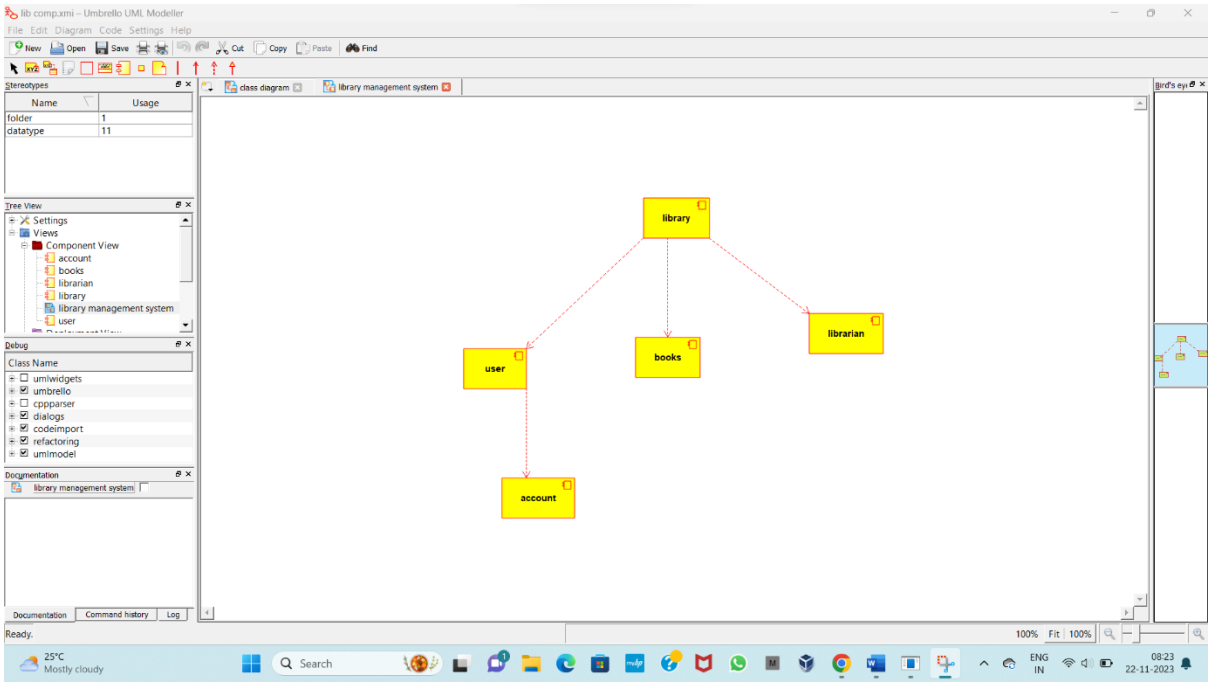

lib pack.xmi – Umbrello UML Modeller
class diagram
package diagram
LMS
book
librarian
members
Database
details of books
details of person
issuing and returning details
book store
publisher
cost of book
no of books
package diagram
Ready.

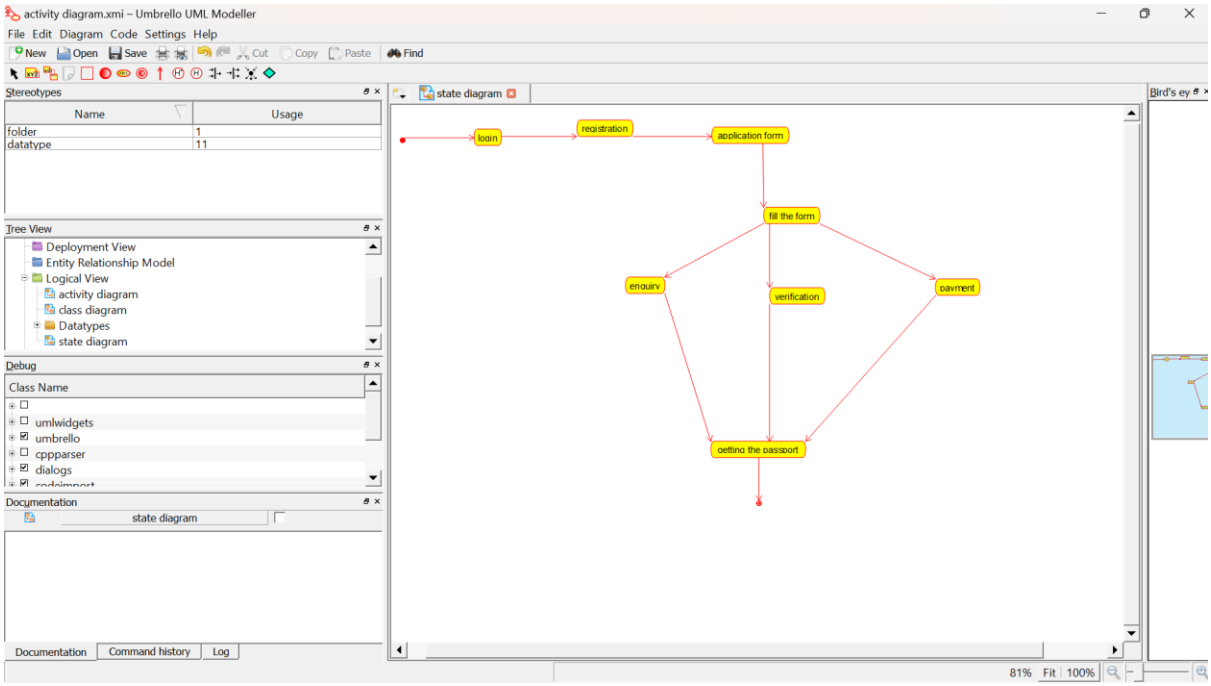

lib deploy.xmi – Umbrello UML Modeller
libary management system
library
books
user
librarian
account
Ready.


lib collab.xmi – Umbrello UML Modeller
class diagram
communication diagram
8 : update book stat
: book
1 : validate membe
3 :et member ty
9 :pdate member rec
: librarian
: member record
2 : calculate fine
4 : <<create>>
d fine and member de
5
2: getissuedeta
: transcation
fine pai
: bill
Ready.
Search


lib class.xmi – Umbrello UML Modeller
class diagram
user
account
+ borrow books : new c
+ reserved book
+ return book
+ fine amoun
+ calculate pric
+ calculate fin
library
+ username
- passworc
+ login
+ logout
user
+ name
+ id
+ view booklis
+ search
librarian
+ name
+ id
# passworc
+ search
+ add books
+ delete book
+ issue book
+ return book
+ send emai
title books
+ author nam
+ publisher
+ show_bool
+ show_pric
general user
+ username
- passworc
+ register
registered user
+ username
- passworc
+ login
+ history
Ready.
Search


lib act.xmi – Umbrello UML Modeller
File Edit Diagram Code Settings Help
New Open Save Cut Copy Paste Find
Stereotypes
Name Usage
folder 1
datatype 11
Tree View
Settings
Views
Component View
Deployment View
Entity Relationship Model
Logical View
class diagram
Datatypes
library management system
Debug
Class Name
umlwidgets
umbrello
cppparser
dialogs
codeimport
refactoring
umlmodel
Documentation
library management system
Documentation Command history Log
class diagram
library management system
Bird's eye
user is registered
user enters login name and password
ect login and passw
no
invalid login/password
yes
user successfully logs in
user's settings are displayed
search book
request book
receive book
return book(if any)
user logout the system
Ready.
81% Fit 100%
25°C
Mostly cloudy
Search
ENG
IN
08:21
22-11-2023


lib comp.xmi – Umbrello UML Modeller
File Edit Diagram Code Settings Help
New Open Save Cut Copy Paste Find
Stereotypes
Name Usage
folder 1
datatype 11
Tree View
Settings
Views
Component View
account
books
librarian
library
library management system
user
Debug
Class Name
umlwidgets
umbrello
cppparser
dialogs
codeimport
refactoring
umlmodel
Documentation
library management system
Documentation Command history Log
class diagram
library management system
Bird's eye
library
user
books
librarian
account
Ready.
100% Fit 100%
25°C
Mostly cloudy
Search
ENG
IN
08:23
22-11-2023



CODE SKELETON

```
# coding=System

from user import *

from title_books import *

from librarian import *


class library(object):


    """


    :version:

    :author:

    """


    """ ATTRIBUTES
```

username (public)

password (private)

"""

def login(self):

"""

@return :

@author

"""

pass

def logout(self):

"""

@return :

@author

"""

pass