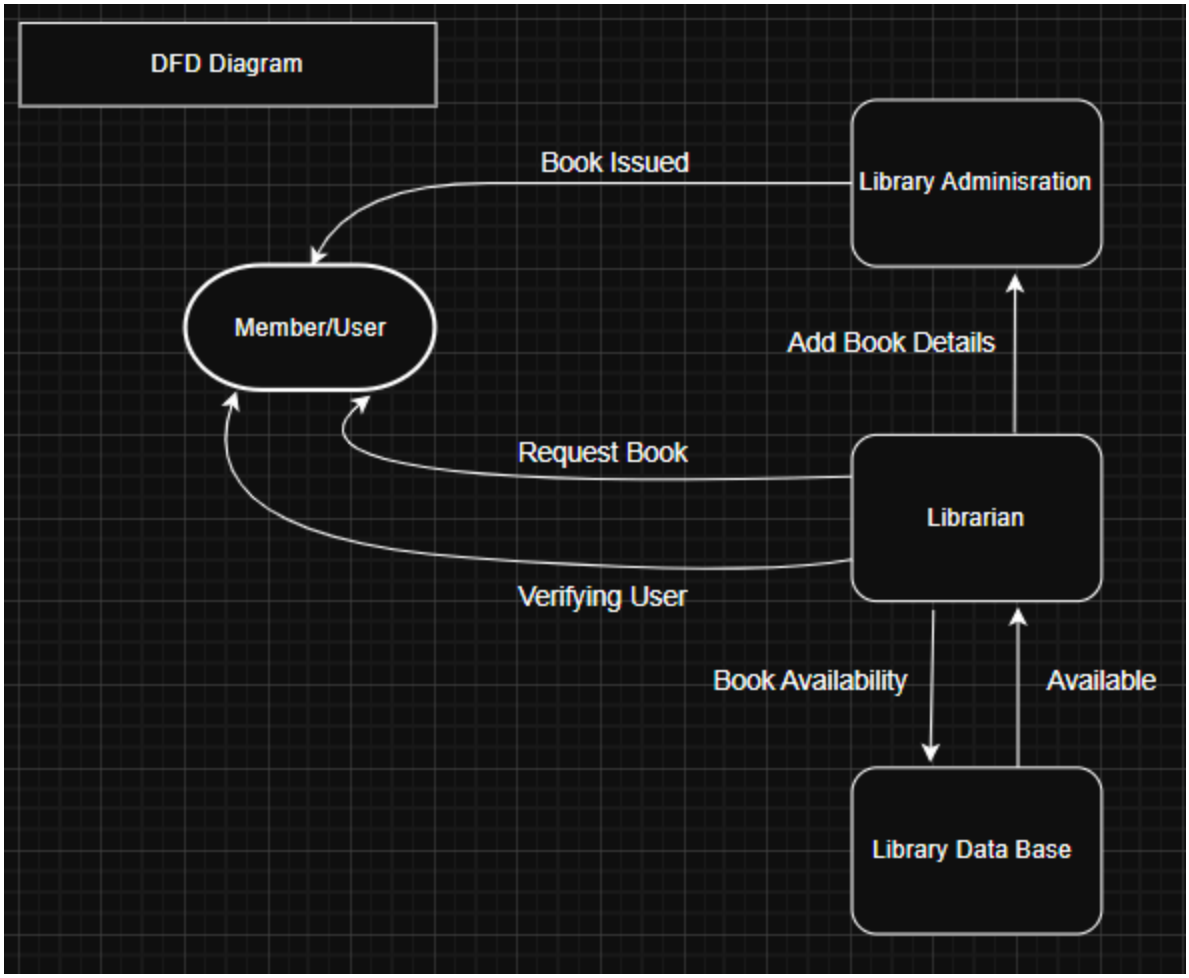
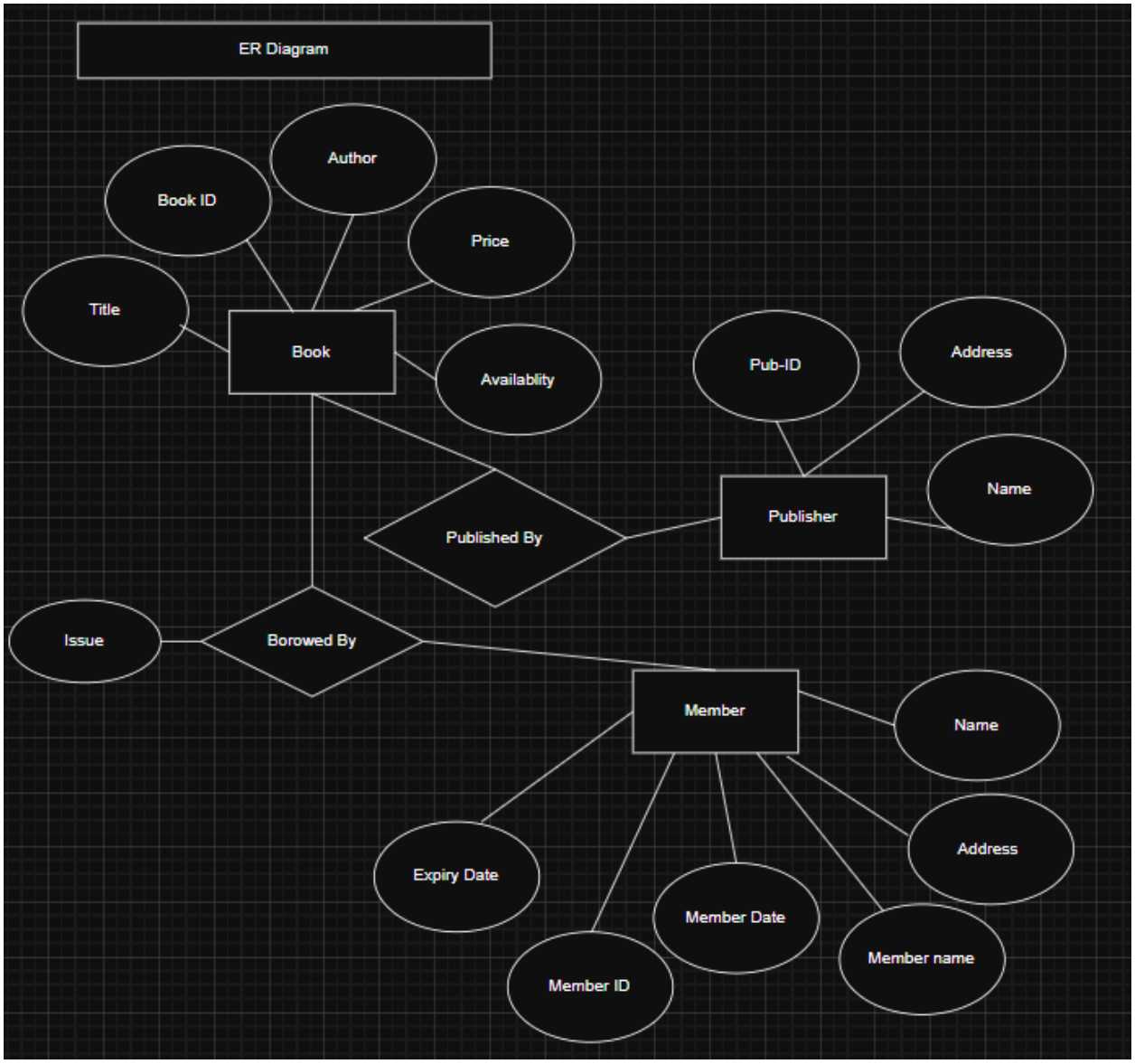
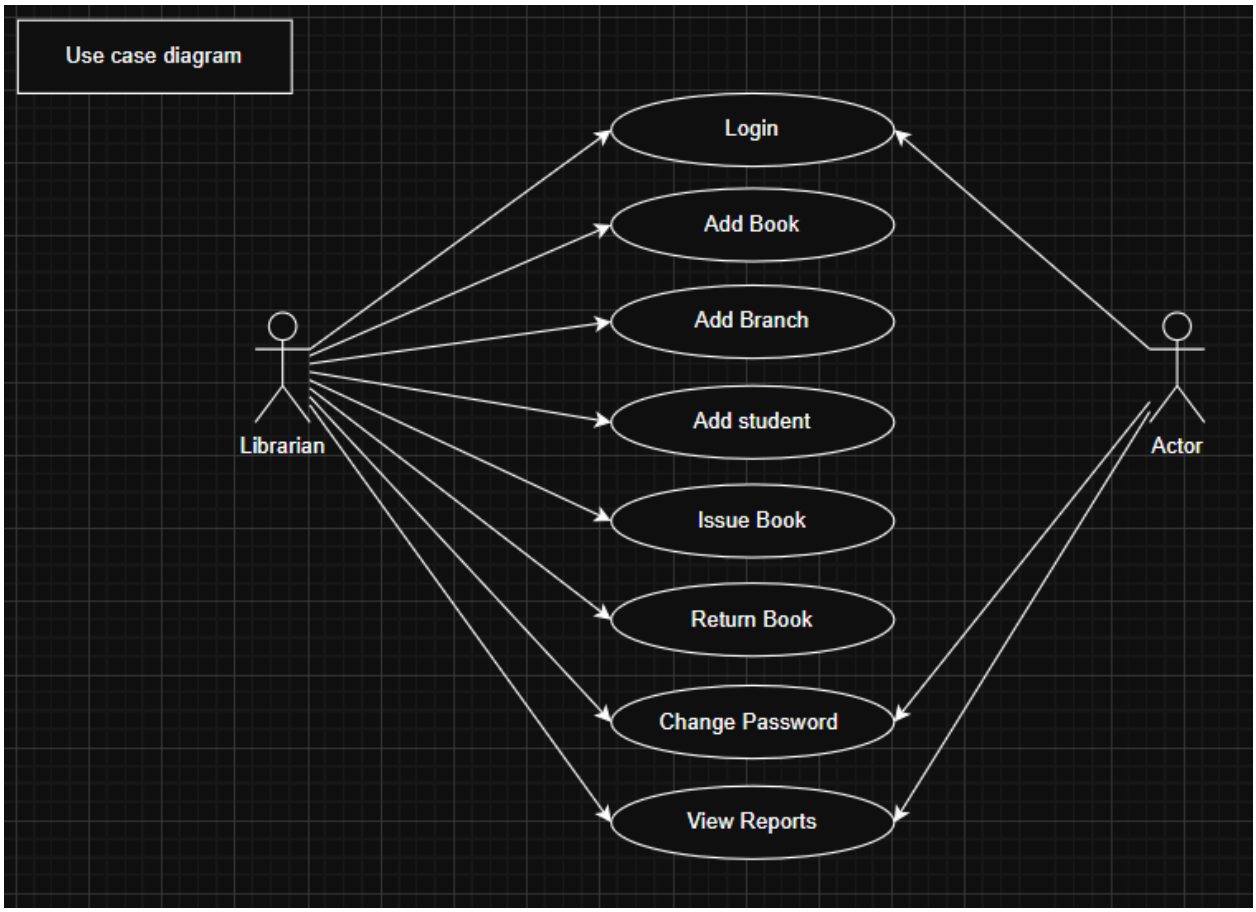
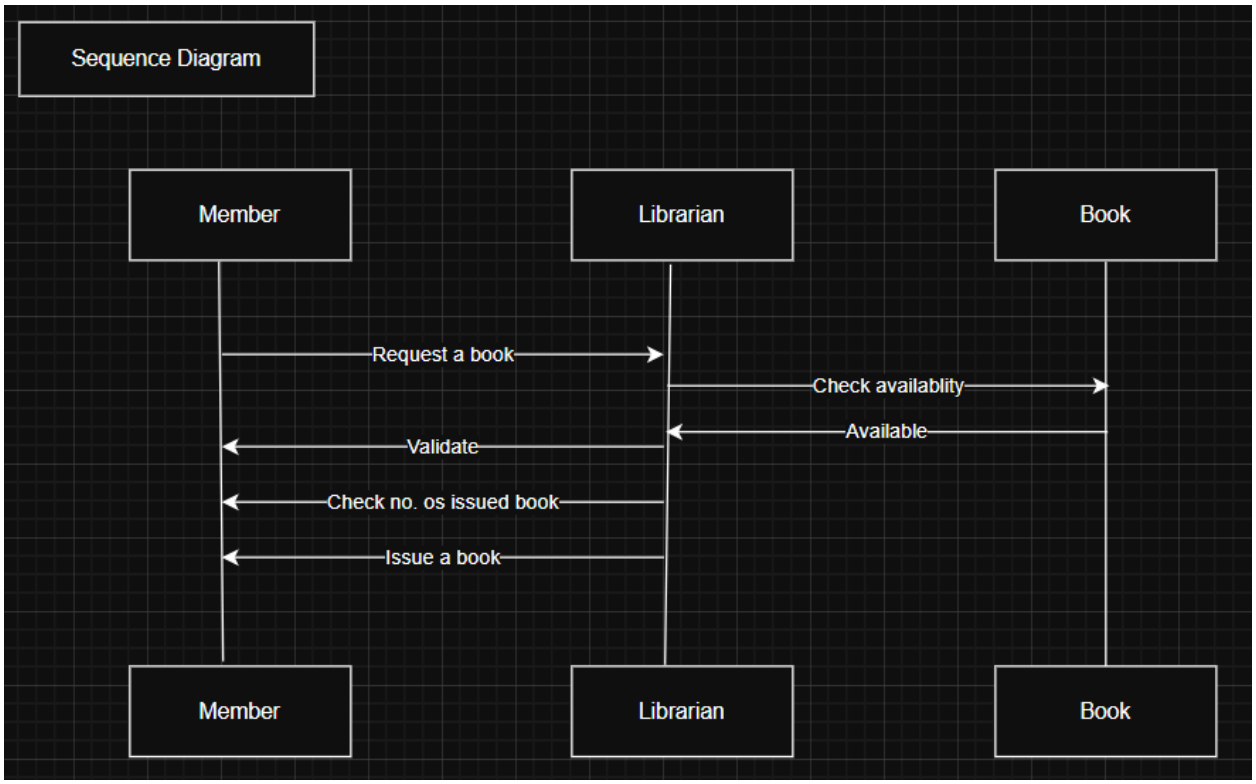
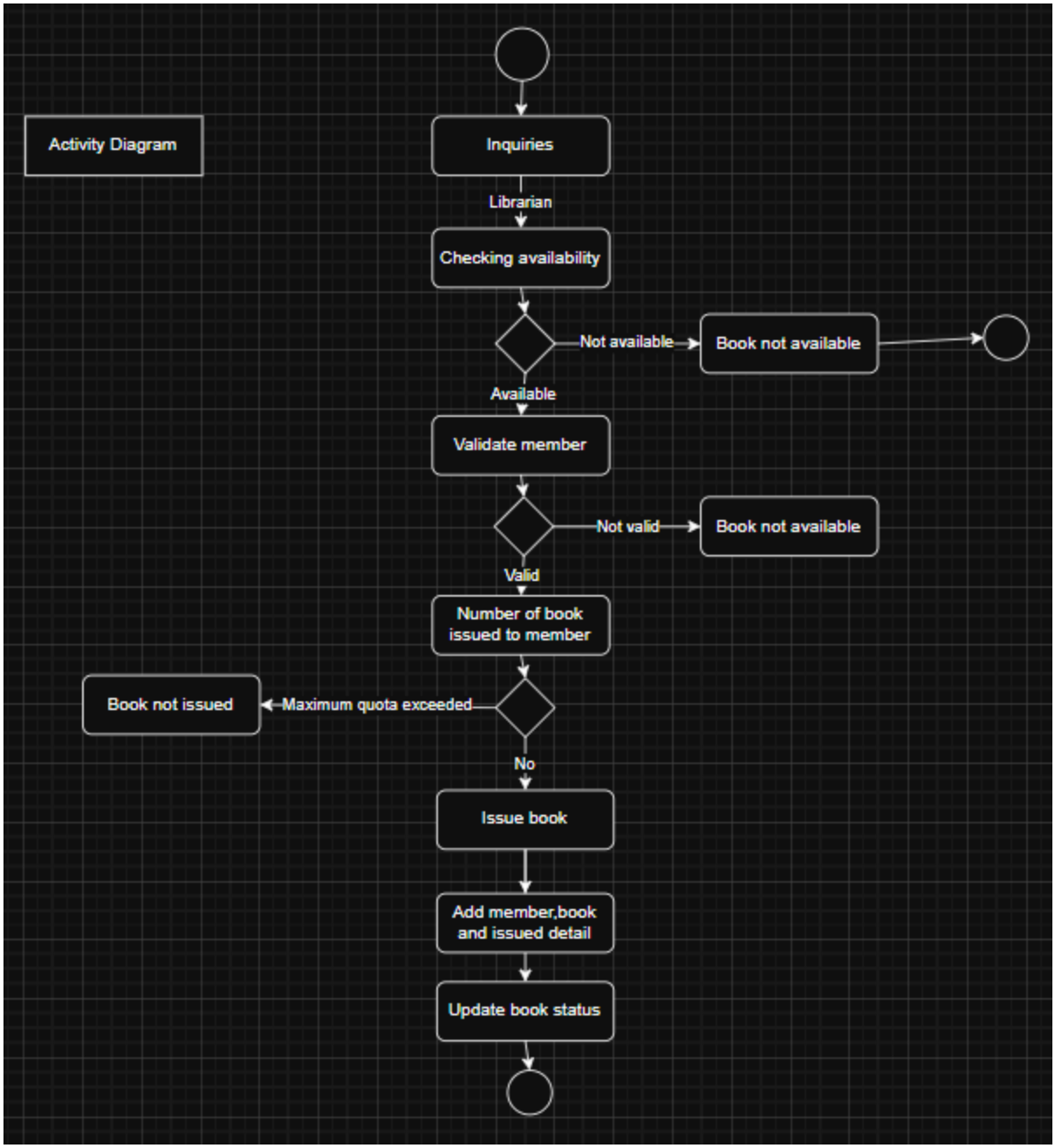
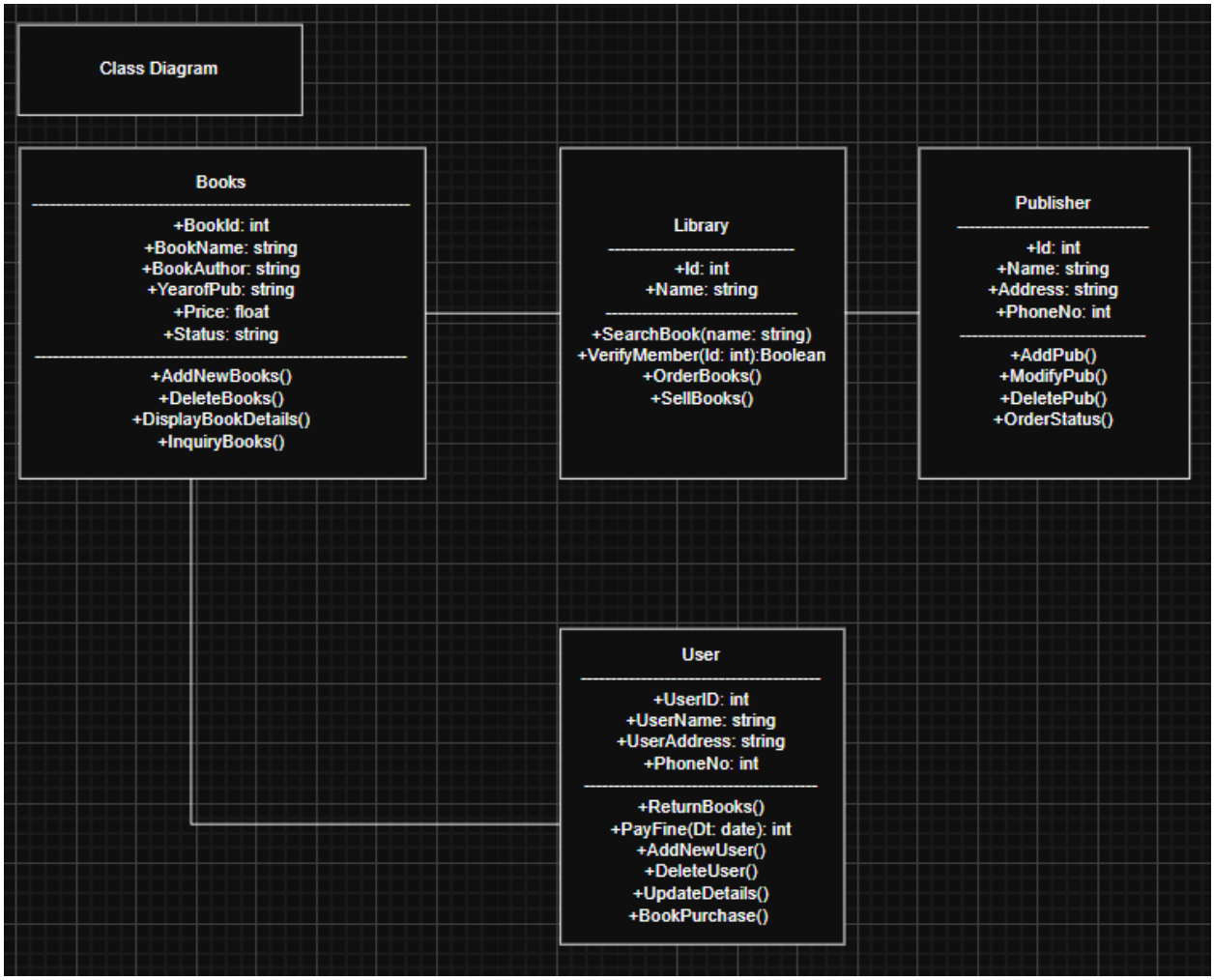

DFD Diagram
Book Issued
Library Adminisration
Member/User
Add Book Details
Request Book
Librarian
Verifying User
Book Availability
Available
Library Data Base


ER Diagram
Author
Book ID
Price
Title
Book
Availablity
Pub-ID
Address
Name
Publisher
Published By
Issue
Borowed By
Member
Name
Address
Expiry Date
Member Date
Member name
Member ID


Use case diagram
Login
Add Book
Add Branch
Add student
Issue Book
Return Book
Change Password
View Reports
Librarian
Actor


Sequence Diagram
Member
Librarian
Book
Request a book
Check availablity
Available
Validate
Check no. os issued book
Issue a book
Member
Librarian
Book


Activity Diagram
Inquiries
Librarian
Checking availability
Not available
Book not available
Available
Validate member
Not valid
Book not available
Valid
Number of book issued to member
Book not issued
Maximum quota exceeded
No
Issue book
Add member,book and issued detail
Update book status


Class Diagram
Books
+BookId: int
+BookName: string
+BookAuthor: string
+YearofPub: string
+Price: float
+Status: string
+AddNewBooks()
+DeleteBooks()
+DisplayBookDetails()
+InquiryBooks()
Library
+Id: int
+Name: string
+SearchBook(name: string)
+VerifyMember(Id: int):Boolean
+OrderBooks()
+SellBooks()
Publisher
+Id: int
+Name: string
+Address: string
+PhoneNo: int
+AddPub()
+ModifyPub()
+DeletePub()
+OrderStatus()
User
+UserID: int
+UserName: string
+UserAddress: string
+PhoneNo: int
+ReturnBooks()
+PayFine(Dt: date): int
+AddNewUser()
+DeleteUser()
+UpdateDetails()
+BookPurchase()