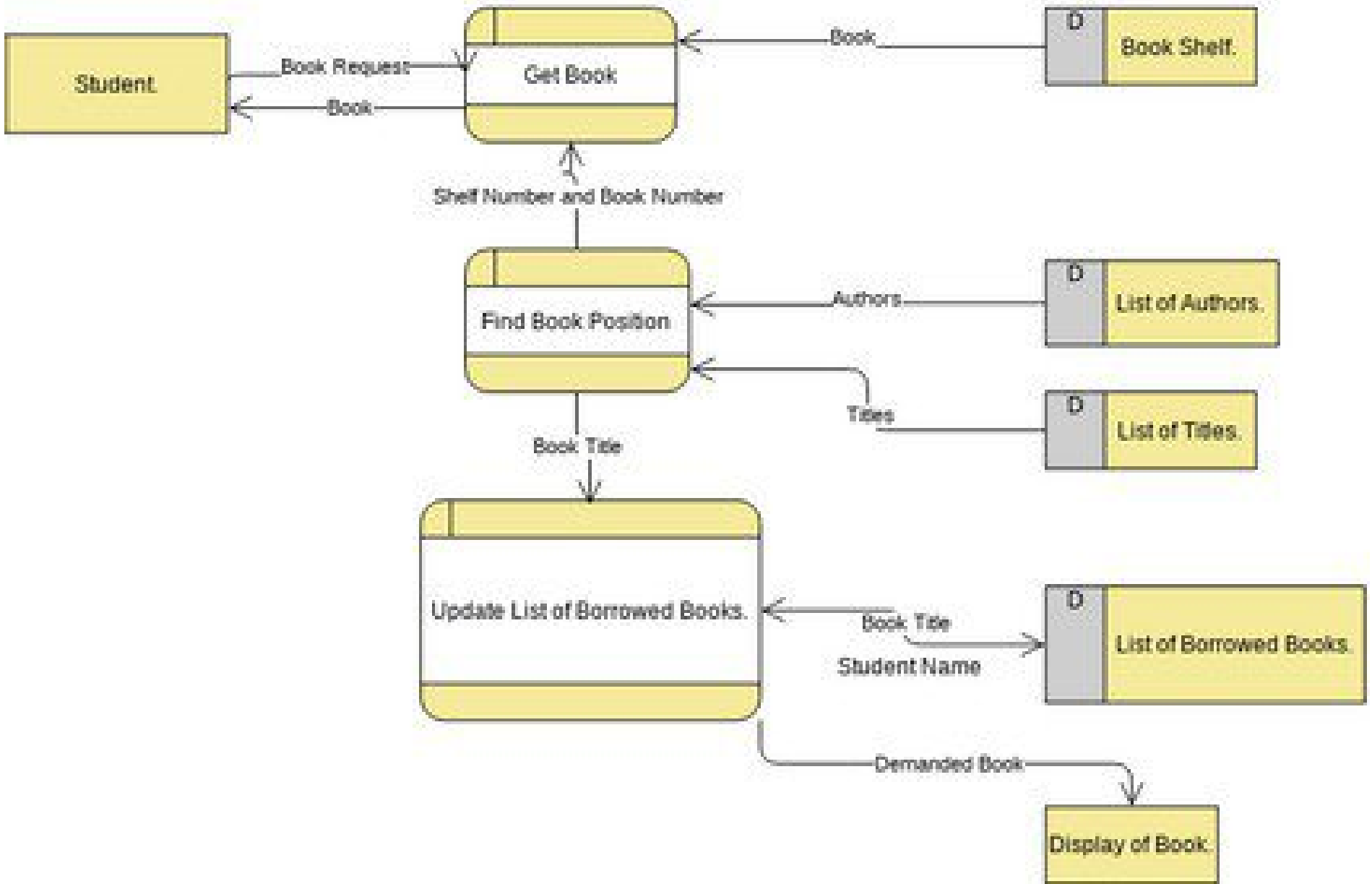
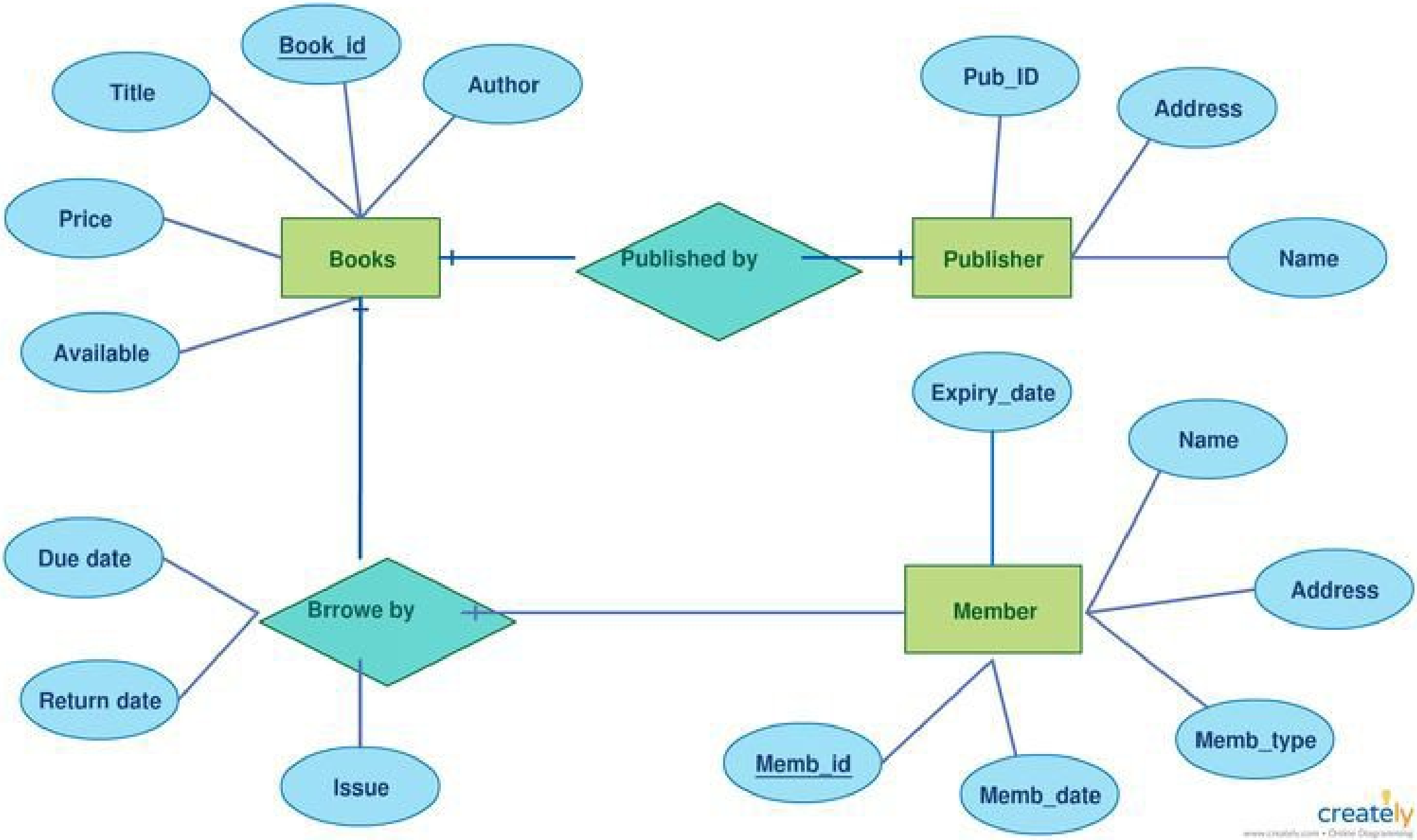
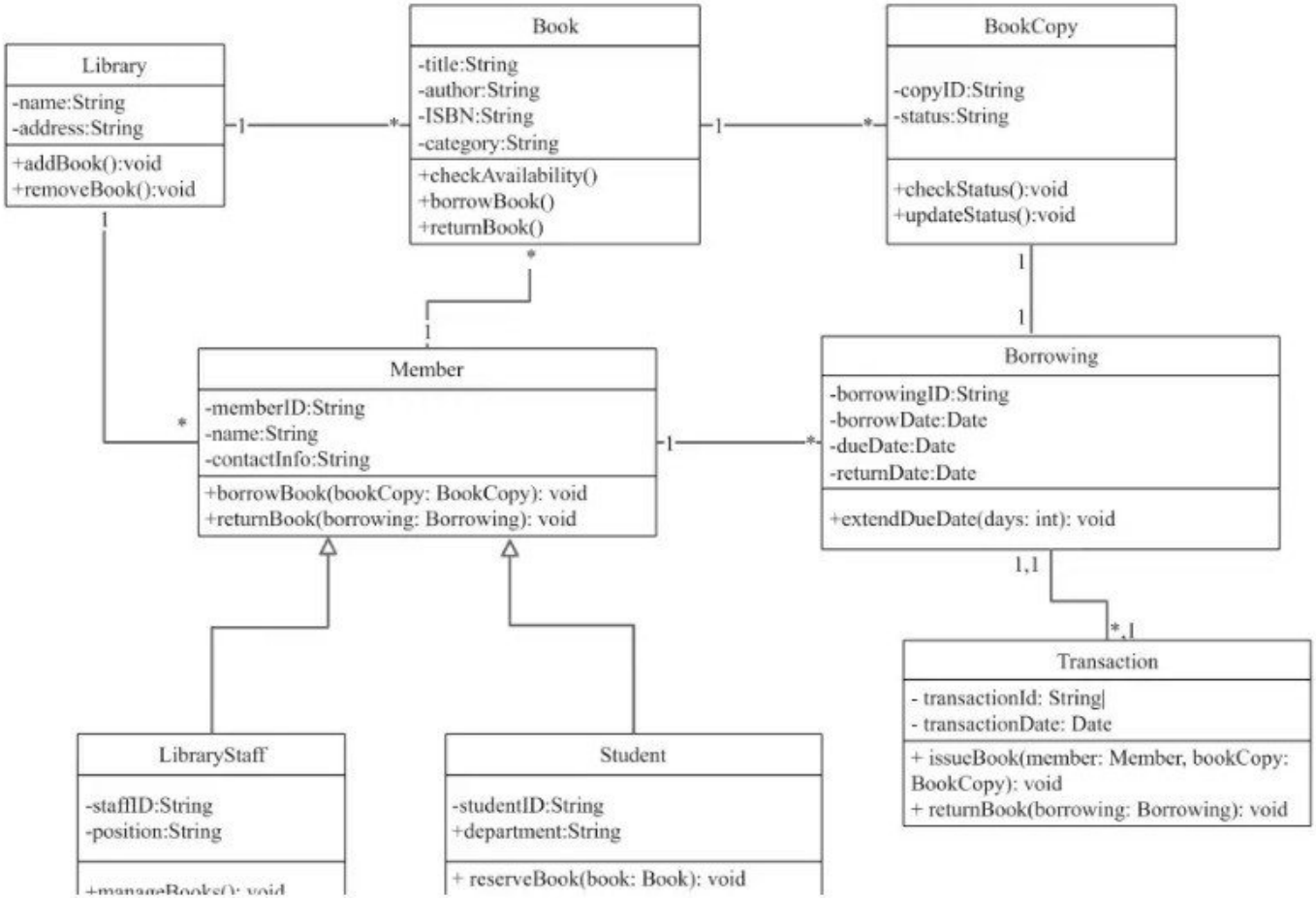
Data Flow Diagram at Level 1 for Library Management System.

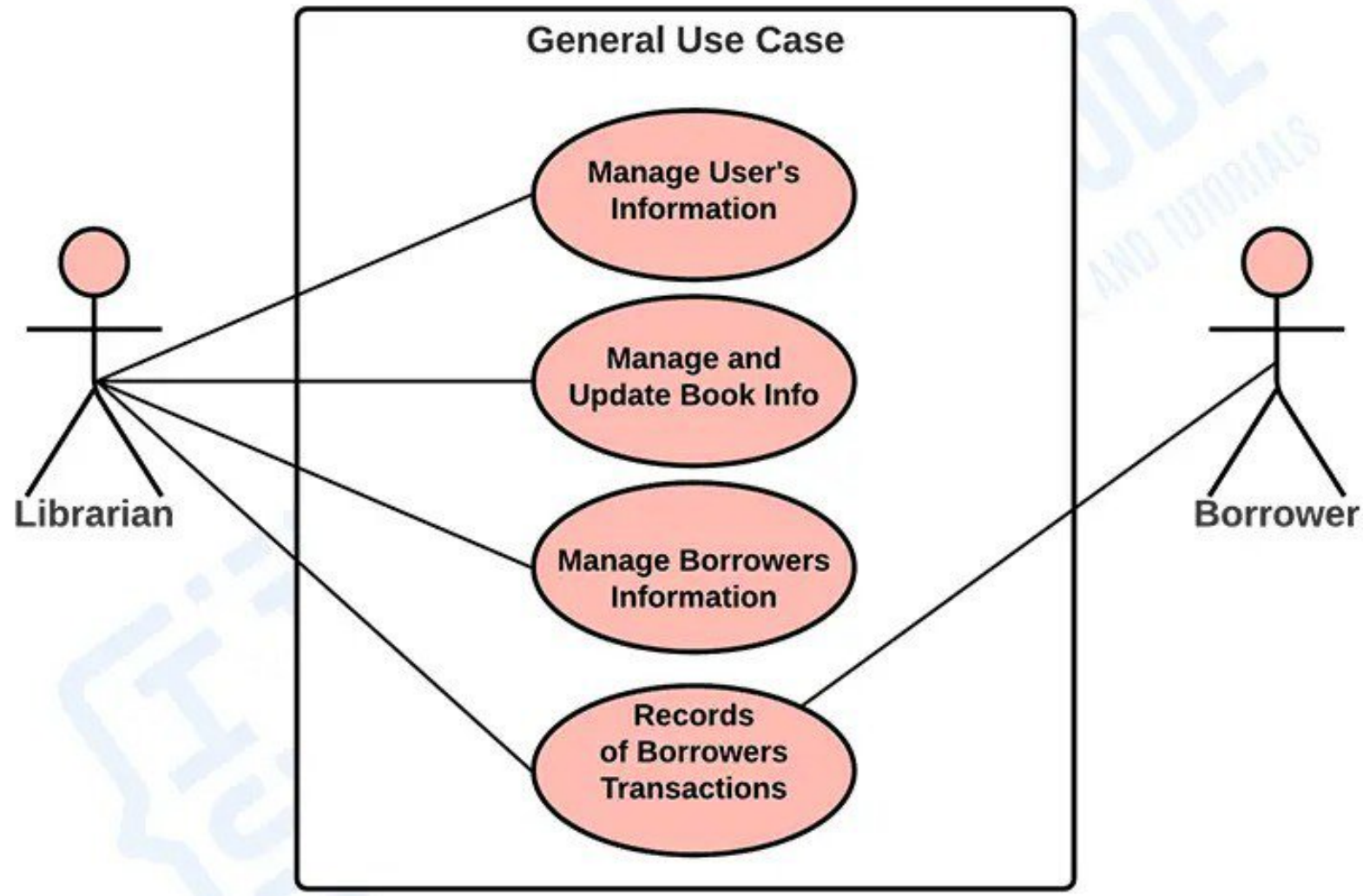


E-R Diagram for Library Management System




Library
-name:String
-address:String
+addBook():void
+removeBook():void
Book
-title:String
-author:String
-ISBN:String
-category:String
+checkAvailability()
+borrowBook()
+returnBook()
BookCopy
-copyID:String
-status:String
+checkStatus():void
+updateStatus():void
Member
-memberID:String
-name:String
-contactInfo:String
+borrowBook(bookCopy: BookCopy): void
+returnBook(borrowing: Borrowing): void
Borrowing
-borrowingID:String
-borrowDate:Date
-dueDate:Date
-returnDate:Date
+extendDueDate(days: int): void
Transaction
- transactionId: String|
- transactionDate: Date
+ issueBook(member: Member, bookCopy: BookCopy): void
+ returnBook(borrowing: Borrowing): void
LibraryStaff
-staffID:String
-position:String
Student
-studentID:String
+department:String
+ reserveBook(book: Book): void

LIBRARY MANAGEMENT SYSTEM



USE CASE DIAGRAM