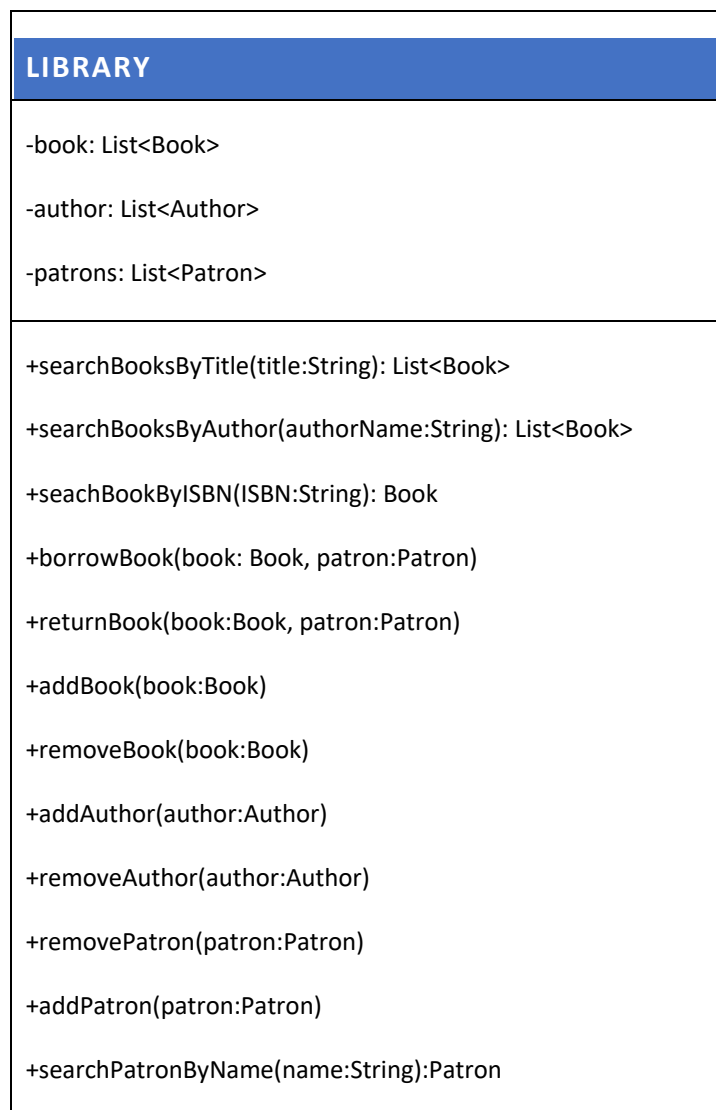


# CLASS DIAGRAM

Library Management System

Semester 3 – Java Midterm

Vanessa Rice



BOOK
-title: String  -author: Author  -ISBN: String  - publisher: String  -numCopies: Int  -status: Status
+getTitle(): String  +getAuthor(): Author  +getISBN(): String  +getPublisher():String  +getNumCopies(): Int  +getStatus(): Status  +setStatus(status: Status)  +decrementCopies()  +incrementCopies()

AUTHOR
-name: String  -birthdate: String
+getAuthorName(): String  +getBirthdate(): String

## PATRON

-name: String  
-address: String  
-phoneNumber: String  
-borrowedBooks: List<Book>  
-fines: double

+getName(): String  
+getAddress(): String  
+getPhoneNumber(): String  
+getBorrowedBooks(): List<Book>  
+calculateFines(): double  
+addBorrowedBook(book: Book)  
+removeBorrowedBook(book: Book)  
+addFines(amount: double)

## AUTHOR

-name: String  
-birthdate: String

+getAuthorName(): String  
+getBirthdate(): String

STATUS
AVAILBLE
CHECKED_OUT
OVERDUE