

BookStatus
AVAILABLE
BORROWED

ReaderType
STUDENT
TEACHER

User
-userid : String
-fullName : String
-email : String
-password : String
+login():bool
+logout():void
+updateProfile():void

Reader
-dateOfBirth : Date
+searchBook():List<book>
+borrowBook():bool
+viewBorrowHistory():bool
+returnBook():List<BorrowSlip>

Book
-bookid : String
-title : String
-author : String
-publisher : String
-publishYear : int
-category : String
-status : BookStatus
+updateStatus():bool

Admin
-adminLevel : int
+addBook():bool
+updateBook():bool
+deleteBook():bool
+manageMember():bool
+createBorrowSlip():BorrowSli
+createFine():Fine
+generateReport():report

Report
+ generateFineRevenueReport():bool

BorrowSlipDetail
- quantity : int

BorrowSlip
-slipid : String
-borrowDate : Date
-dueDate : Date
-returnDate : Date
-bookCondition : String
+markReturned():bool

Fine
-fineid : String
-amount : double
- reason : String
+calculateFine():double

