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+Book

- int id
- String author
- String subject
- String borrower
- Boolean avail
- + setbook(int,String): void
- + print(): void
- + printfile(): String
- + setid(String) : void
- + setauthor(String) : void
- + setsubject(String) : void
- + setborrower(String) : void
- + setavail(boolean): void
- + getid(): int
- + getauthor() : String
- + getsubject(): String
- + getborrower(): String
- + getavail() : boolean

+Library

1

- + ArrayList<Book>
- + ArrayList<User>
- + int booked

1..*

- + initbook(Scanner) : void
- + inituser(Scanner) : void
- + cmd(Scanner) : void
- + addBook(String,Scanner): void
- + removeBook(String,String): void
- + checkout(String,String,Scanner) : void
- + doreturn(String,String) : void
- + listAuthor(String,String) : void
- + listSubject(String,String): void
- + findChecked(String,String): void
- + findBorrower(String,string) : void
- + checkuser(String) : boolean
- + writefile(String): void
- + listalldata(): void

+User

- String
- String
- Int

1..*

- + set(String) : void
- + print(): void
- + setUserType(String) : void
- + setUserName(String) : void
- + setBorrowNum(int): void
- + getUserType() : String
- + getUserName() : String
- + getBorrowNum(): int