

Library

String libraryName

ArrayList<Book> bookArray

کتابوں کی فہرست

ArrayList<Student> studentArray

ArrayList<LibraryManager> libraryManagerArray

ArrayList<BookLoan> bookLoanArray

ArrayList<Request> requestArray

BookLoan[] mostLoanBooks

void addRequest(Request)

void addBook(Book)

void addStudent(Student)

void addManager(LibraryManager)

void addLoan(BookLoan)

void searchBook(String, String)

void countBooksLoans()

void top10BooksLastYear()

Book

String title

کتاب کا نام

String author

" " "

int pageCount

" " "

int yearPublished

" " "

boolean toExist

" " "

String toString()

Eiffel

BookLoan

Book bookLoan	حساب القرض
Student student	" " "
LibraryManger giverManger, reciverManager	" " "
LocalDate borrowDate, dueDate, actualReturn	" " "
Period later Time	" " 5
int totalLoanCount	" " "
String toString()	
void incrementLoanCount()	10

FileStorageHandler

void saveLibraryData(Library, libraryAdmin)	
void loadLibraryData(Library, libraryAdmin)	15
Book getBook(String)	
Student getStudent(String)	
LibraryManager getManager(String)	
BookLoan getBookLoan(String)	20
Request getBookRequest(String)	

InputHandler

Book getBookInfoFromUser()	25
Student getStudentInfoFromUser()	
LibraryManager getManagerInfoFromUser()	
LibraryAdmin getAdminInfoFromUser()	

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LibraryAdmin

String firstName, lastName, educationLevel

حدا. بالتر. مستر

Long userId

" " "

int code

" " "

void addBookToLibrary(Library, Book)

void ListOfBooksBorrowed(Library)

String toString()

LibraryManager

String firstName, lastName

حدا. بالتر. مستر

Long userId

" " "

void borrowBook(Library, Student, Book)

Book toExistBook(String, String, Library)

Student toExistStudent(Long, Library)

boolean StudentRequest(Student, Book, List<Request>)

LibraryManager getManagerLogIn(Library, Long)

void borrowBookRequest(Library, LibraryManager)

Book toExistReturnBookRequest(String, String, Library)

Student toExistReturnBookRequest(Long, Library)

void returnBookRequest(Student, Book, Library, LibraryManager)

void acceptReturnRequest(Library, LibraryManager, Long)

String toString()

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Student

String firstName, lastName, major

هـ. ر. ا. ب. ا. ل. ت. ر. م. س. ت. ر.

Long studentId

" " "

LocalDate membershipDate

" " "

5

String toString()

Request

Student student

هـ. ر. ا. ب. ا. ل. ت. ر. م. س. ت. ر. 10

Book book

" " "

LocalDate date

" " "

String toString()

15

Menu

void

ShowStudentMenu(Library)

void

ShowAdminMenu(Library, LibraryAdmin)

20

void

ShowManagerMenu(Library)

25

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