22AIE111: Object Oriented Programming in JAVA.

Project – LIBRARY MANAGEMENT SYSTEM

(UML Diagram)

Group No: 8

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UML DIAGRAM:

Library

- name: string
- location: string
- books: Book[]

+register(book: Book) : void
+search(query: string) : Book[]
+lend(book: Book, borrower: string) : void

Book

-name: string
-author: string
-genre: string
-year: number
-section: string
-block: string
-availability: boolean

+getName() : string
+getAuthor() : string
+getGenre() : string
+getYear() : number
+getSection() : string
+getBlock() : string
+isAvailable() : boolean

Librarian

- name: string

+getName() : string
+addBook(book: Book) : void
+removeBook(book: Book) : void
+approveLending(book: Book, borrower: Borrower) : void

Borrower

- name: string
- borrowedBooks: Book[]

+getName() : string
+getBorrowedBooks() : Book[]