Book

+ Title:String
+ ISBN:String
+ Edition:Double
+ Publisher: String
+ Volume:Int
+ Year: Int
+ Signature: Int
+ AvailableOnline: Boolean

0,1..n

1

Library

+ BookDb: Collection<Book>

- addBook(title String, ISBN String, edition Double, publisher String, volume Int, year Int, signature Int, online Boolean): void
- pushToShelf(signature Int):book
- pushToWeb(signature Int): book

1

<<interface>>Shelf

+ Book: List<Book>

1

1

<<interface>>Website

+ Book: List<Book>

1

1

0..n

User

+ FirstName: String
+ LastName: String
+ User_id: String

+ borrowBook(book)
+ getBookInfo(book)

Assumptions:
1. Library signature is an numerical value such as a has value
2. Assuming that "media" refers to alternative form of a book in this case pdf accesible online. Requirements state initially a book is available in physical and media copy and later states physical copy or pdf. Assuming the former is applicable.
3. Website and bookshelf represent an interface in which users interact not neccesarily the physical number of shelves in a library, but there would always be one website at a given time.
4. Books can contain 0, 1 or as many books as neccesary but the library system will remain even if there are no books thus this is an aggregation. Likewise books are a part of a single library system at a given time.
5.