DETERMINE CLASSES

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# **Identify candidate classes (concepts)**

## **List all noun and group**

**System,**

Library

collection(books)

book

borrow days

Book title

Book ISBN number

Book availability

List of authors /let talk about that/

Credentials

Shor bio

member

member information

Unique member number

Address member

Phone numbers

Member data

admin

Librarian

Books copy ()

Unique copy number

Checkout record

Checkout entrys

Date of checkout

Due date

Later returns of book

Paid date

Record for fines

## **Processed**

**book**

borrow days

Book title

Book ISBN number

Book availability

**Author**

Credentials

Shor bio

**member**

member information

Unique member number

**Address member**

Phone numbers

Member data

admin

Librarian

**Books copy**

Unique copy number

**Checkout record**

Date of checkout

Due date

Later returns of book

Paid date

Record for fines

# **Domain class Classes**

|  |
| --- |
| **book** |
| borrow days  Book title  Book ISBN number  Book availability |
|  |

|  |
| --- |
| **Author** |
| Credentials  First name  Last name  Address  Short bio |

|  |
| --- |
| **Member** |
| member information  Unique member number  Address member  Phone numbers  Member data |

|  |
| --- |
| **Books copy** |
| Unique copy number |
|  |

|  |
| --- |
| **Checkout record** |
| Date of checkout  Due date  Later returns of book  Paid date  Record for fines |

|  |
| --- |
| **Account** |
| Role: Admin/Librarian/Both |

# **Implementation Classes with attributes**

|  |
| --- |
| **Book** |
| +title  +ISBN  +maxCheckouLenght  +Author |
|  |

|  |
| --- |
| **Author** |
| +id  +bio  +credentials  +Address |

|  |
| --- |
| **LibraryMember** |
| +firstname  +lastname  +telephone  +Address |

|  |
| --- |
| **BookCopy** |
| +Book  +copyNum  +isAvailable |
|  |

|  |
| --- |
| **Checkout** |
| +List<BookEntry>  +LibraryMember |

|  |
| --- |
| **CheckoutEntry** |
| +Book  +checkoutDate  +dueDate  +returnDate |

|  |
| --- |
| **Address** |
| Street  City  State  zip |