- Library
Book
Journal
Copy
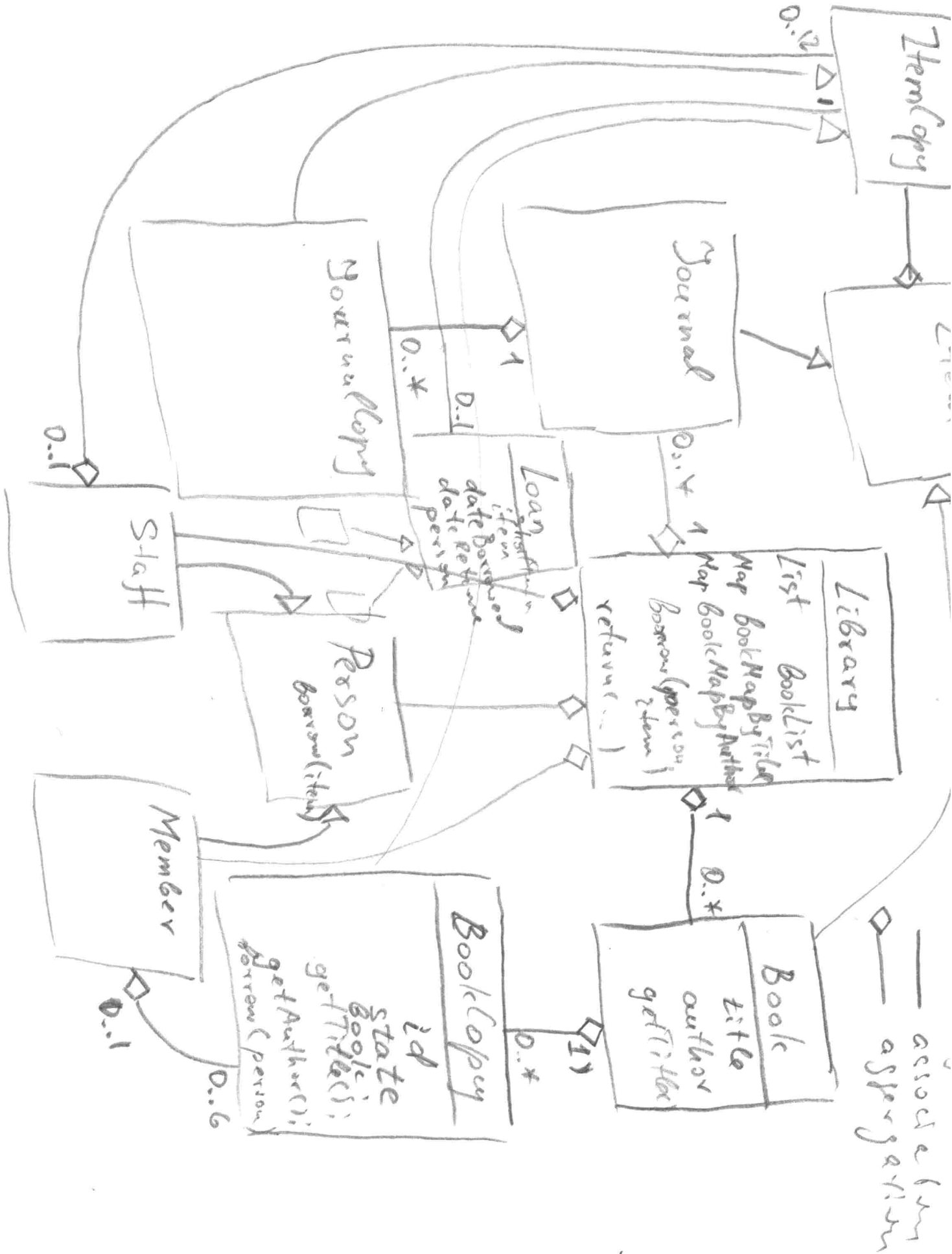Loan
Member
Item
Staff
- System

ItemCopy

Journal

JournalCopy

Staff

Person
borrow(item)

Member

Library
List   BookList
Map BookMapByTitle
Map BookMapByAuthor
borrow(person, item)
return(...)

Loan
classification
item
dateBorrowed
dateReturned
person

Book
title
author
getTitle

BookCopy
id
state
getTitle();
getAuthor();
borrow(person)

0..2

1

0..*

0..1

1

0..*

0..1

0..6

1

0..*

(1)

0..*

1

association
aggregation

```java
class BookCopy {
    :

    public BookCopy(Book book) {
        if (book == null) {
            throw an exception;
        }
    }
```

```java
    public BookCopy() {

    }
    public void setBook(Book book) {
        this.book = book;
    }
```

```java
    BookCopy copy = new BookCopy();
    copy.setBook(book);
```