# UML Class Diagram for Library_App

**Book**
- -id
- -title
- -author
- -category
- -numberOfCopies

- +addBook()
- +editBook()
- +deleteBook()
- +searchBookByCategory()
- +showAllAvailableBooks

1..1

< made on

**Person**
- -firstName
- -lastName
- -email

- +addBook()
- +editBook()
- +deleteBook()
- +searchBookByCategory()
- +showAllAvailableBooks()

1..*

**Loan**
- -idLoan
- -memberId
- -bookId
- -dateLoan
- -dateReturnPreview
- -effectiveReturnDate

- +recordLoan()
- +manageReturn()
- +calculatePenalties()

**Member**
- -id
- -membershipDate

- +registerMember()
- +deleteMember()
- +searchMemberByName()

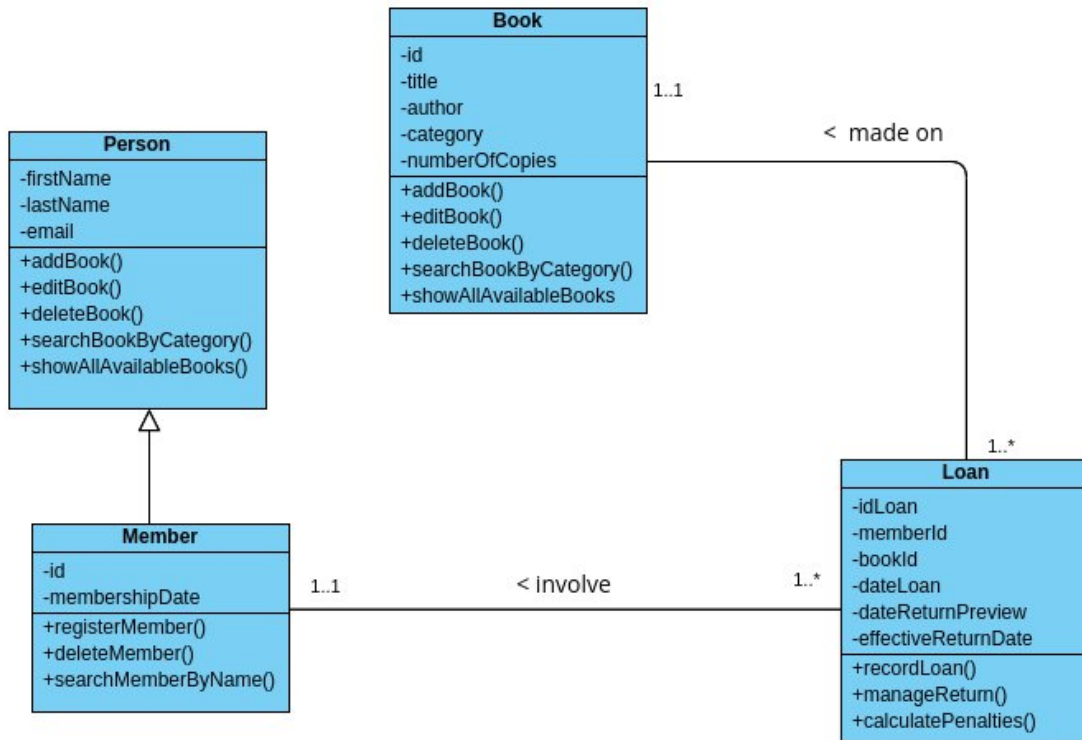1..1          < involve          1..*

Below is the link to the GITHUB repository of the java project:

https://github.com/Ashleale/projet_bibliotheque