booklist

collection_name: string

+ add_book()
+ search()
+ counter()
+ remove_book()

Books

book_ID: Integer
title: String
author: String
year: Integer
publisher: String
available_copies: Integer
publication_date: Date

+ set_bookID()
+ setTitle()
+ SetAuthor()
+ setYear()
+ setPublisher()
+ set_numberofCopies()
+ set_publicationDate()
+ return_title()
+ return_author()
+ return_year()
+ return_publisher()
+ return_number_copies()
+ return_date()
+ modify_book()

Users

username: String
firstname: String
surname: String
house_number: Integer
street_name: String
postcode: Integer
email_address: String
date_of_birth: Date

+ setfirstname()
+ setsurname()
+ sethouse_number()
+ set_street_name()
+ setpostcode()
+ setemail_address()
+ setdate_of_birth()
+ modify()
+ return_username()
+ return_firstname()
+ return_surname()
+ return_house_number()
+ return_street_name()
+ return_postcode()
+ return_email()
+ return_date_of_birth()
+ edit_username()
+ edit_firstname()
+ edit_Surname()
+ edit_housenumber()
+ edit_streetname()
+ edit_postcode()
+ edit_email()
+ editdate_ofBirth()

loan

username
Firstname
bookname
date

+ borrow()
+ unborrow()
+ overdue_Loans()
+ countLoans()

userlist

list_name

+ create_users()
+ count_users()
+ user_details()
+ remove_user()

1   0..*

0..*   1