**LiBook**

*Represents modern online library with simple and user-friendly UI to interact with information about books and authors.*

The goal of the system is to simplify the process of searching books and authors for user. The service provides quick access to the main information about books and their authors available across the system. The system allows to manage items (books and authors) in a really easy way using comfortable modern interface. In addition, amongst options available, an end user can add books to the wish list and find out where the books he/she likes is available to buy. Also users can leave comments to book which he/she like.

**Roles**

1. **Admin** – user of the system who can manage all information about books and authors (fulfil CRUD operations with authors and books)
2. **Registered user** – target wearer of the system who has such opportunities as searching and retrieving information about authors and books; can add books to his/her wish list.
3. **Guest** – person who has only availability to search and view information about books and authors.

**Subsystems**

***Book Subsystem***

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| **№** | **Role** | **Use Case** | **Description** | **Action Method** | **Tests** |
| BS1 | Admin | Edit book | Updates information about book such as general information (title, description etc.), picture and data about authors. | Edit(EditBookViewModel model) |  |
| BS2 | Add book | Creates new books adding general information (title, description etc.), picture. | Add(CreateBookViewModel model) |  |
| BS3 | Delete book | Deletes all information available about book. This action can not be undone. | Delete(DeleteBookViewModel model) |  |
| BS4 | Web Customer | Search book | Searches all information available about book. | Search(SearchBookViewModel model) |  |

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| **№** | **Role** | **Use Case** | **Description** | **Action Method** | **Tests** |
| AS1 | Admin | Edit author | Updates information about author such as general information (first name, last name etc.), picture. | Edit(EditAuthorViewModel model) |  |
| AS2 | Add author | Creates new authors adding general information (title, description etc.), picture. | Add(AddAuthorViewModel model) |  |
| AS3 | Delete author | Deletes all information available about author. This action cannot be undone. | Delete(DeleteAuthorViewModel model) |  |
| AS4 | Web Customer | Search author | Searches all information available about author. | Search(SearchAuthorViewModel model) |  |

***Author Subsystem***

***Wishlist Subsystem***

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| **№** | **Role** | **Use Case** | **Description** | **Action Method** | **Tests** |
| WS1 | Registered customer | Add to wish list | Adds books to the wish list | Add(AddToWishListViewModel model) |  |
| WS2 | Delete from wish list | Removes books from the wish list | Delete(DeleteFromWishListViewModel model) |  |
| WS3 | Add note | Adds a note why this book should be in the wish list | AddNote(AddNoteViewModel model) |  |

***User Subsystem***

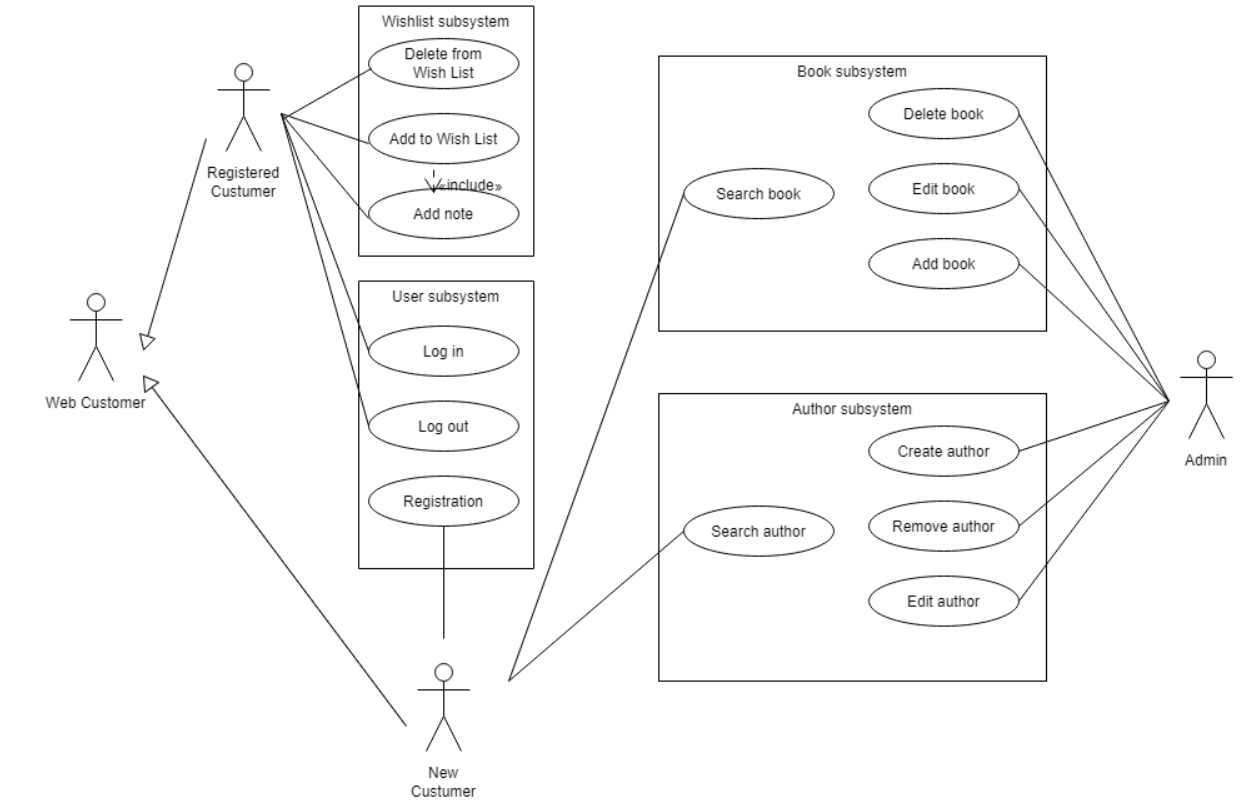
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **№** | **Role** | **Use Case** | **Description** | **Action Method** | **Tests** |
| US1 | Registered customer | Log in | Authorizes in system | LogIn(LogInViewModel model) |  |
| US2 | Log out | Signs out from system | LogOut(LogOutViewModel model) |  |
| US3 | New customer | Registration | Registration in system | Registration(RegistrationViewModel model) |  |

***Tests***

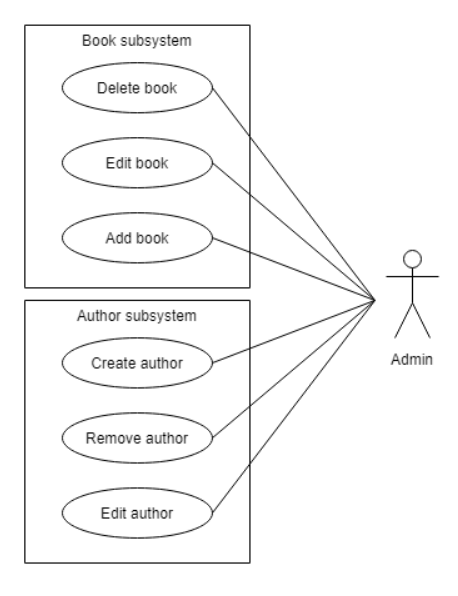
|  |  |  |  |
| --- | --- | --- | --- |
| **№** | **Test class** | **Test method** | **Code coverage** |
|  |  |  |  |
|  |  |  |  |

**Diagrams**

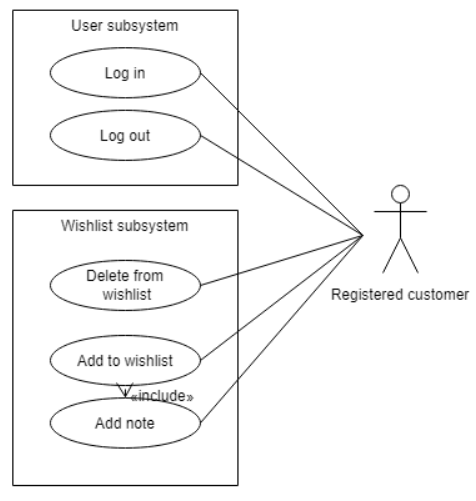
1. Use cases.
   1. General use case diagram



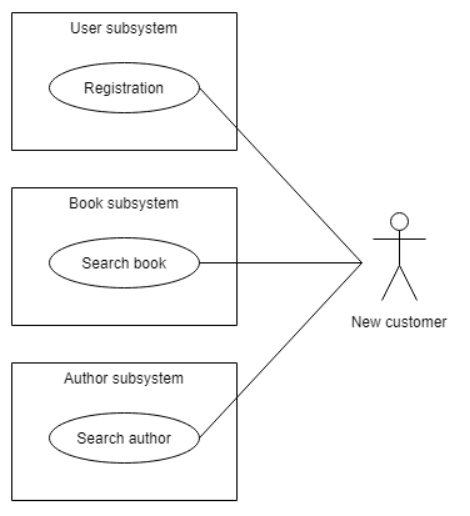
1.2 Use case for Admin role



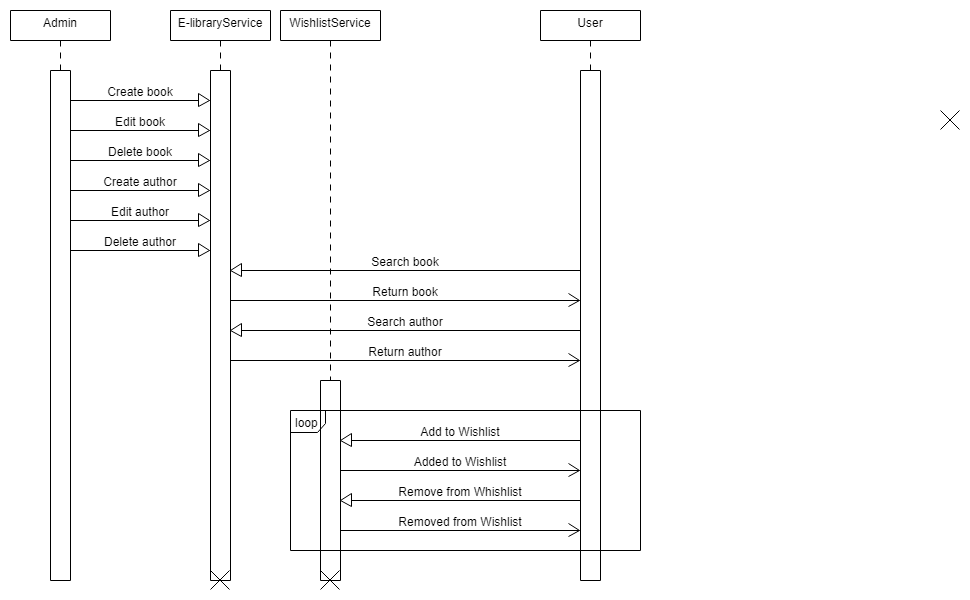
* 1. Use case for registered user



* 1. User case for guest



1. Sequence.



1. Class.

A screenshot of a cell phone

Description automatically generated