## **Use case template**

## Iterations:

i. Create the Log in / Log out interface.

ii. Create the Subscriber interface.

iii. Create the Admin interface.

## Login:

|  |  |  |  |
| --- | --- | --- | --- |
| ID and name | UC-1: Login | | |
| Primary actor | Subscriber | Secondary actors | Login System |
| Description | A Subscriber tries to log in using his library ID and password. | | |
| Trigger | A Subscriber indicates that he wants to log in. | | |
| Preconditions | PRE-1: Subscriber has an account registered. | | |
| Postconditions | POST-1: List of available books is shown. | | |
| Normal flow | 1. Subscriber enters his library ID and password. 2. System logs subscriber in and displays the list of available books. | | |
| Alternative flows | - | | |
| Exceptions | 1. Error: Library ID/password incorrect -> Error is shown and normal flow continues from step 1. | | |

## Borrow one or multiple books:

|  |  |  |  |
| --- | --- | --- | --- |
| ID and name | UC-2: Borrow books | | |
| Primary actor | Subscriber | Secondary actors | Library Inventory System |
| Description | A Subscriber accesses the Library Borrowing System, views the available inventory and chooses one or multiple books. | | |
| Trigger | A Subscriber indicates that he wants to borrow one or multiple books. | | |
| Preconditions | PRE-1: Subscriber is logged into LBS. | | |
| Postconditions | POST-1: List of borrowed books is stored in LBS along with the option to return them.  POST-2: List of available books is updated. | | |
| Normal flow | 1. Subscriber asks to see the list of available books. 2. LBS displays the list of available books. 3. Subscriber chooses one or multiple books. 4. Subscriber decides to borrow the chosen books. 5. LBS shows the chosen books and asks if to proceed (continue normal flow) or if the Subscriber wants to modify the choices (return to step 2). 6. LBS stores the order, sends book information to the Library Inventory System and shows the borrowed books in the Return tab. | | |
| Alternative flows | - | | |
| Exceptions | - | | |

## Return a book:

|  |  |  |  |
| --- | --- | --- | --- |
| ID and name | UC-3: Return a book | | |
| Primary actor | Subscriber | Secondary actors | Library Inventory System |
| Description | A Subscriber accesses the Library Borrowing System, views the available inventory and chooses one or multiple books. | | |
| Trigger | A Subscriber indicates that he wants to return a book. | | |
| Preconditions | PRE-1: Subscriber is logged into LBS. | | |
| Postconditions | POST-1: List of borrowed books is stored in LBS along with the option to return them.  POST-2: List of available books is updated. | | |
| Normal flow | 1. Subscriber asks to see the list of borrowed books. 2. LBS displays the list of borrowed books. 3. Subscriber chooses one or multiple books. 4. Subscriber decides to return the chosen books. 5. LBS shows the chosen books and asks if to proceed (continue normal flow) or if the Subscriber wants to modify the choices (return to step 2). 6. LBS stores the order, sends book information to the Library Inventory System and hides the returned books from the Return tab. | | |
| Alternative flows | - | | |
| Exceptions | - | | |

## Logout:

|  |  |  |  |
| --- | --- | --- | --- |
| ID and name | UC-4: Logout | | |
| Primary actor | Subscriber | Secondary actors | Login System |
| Description | A Subscriber tries to log out of his library account. | | |
| Trigger | A Subscriber indicates that he wants to log out. | | |
| Preconditions | PRE-1: Subscriber is logged in. | | |
| Postconditions | POST-1: Subscriber is logged out. | | |
| Normal flow | 1. Subscriber presses the log out button. 2. System logs subscriber out and closes the tab. | | |
| Alternative flows | - | | |
| Exceptions | - | | |

## Add a book:

|  |  |  |  |
| --- | --- | --- | --- |
| ID and name | UC-5: Add a book | | |
| Primary actor | Admin | Secondary actors | Library Inventory System |
| Description | An admin tries to add a book to the system. | | |
| Trigger | An admin presses the “add a book” button. | | |
| Preconditions | PRE-1: Admin is logged in | | |
| Postconditions | POST-1: List of available books is updated. | | |
| Normal flow | 1. Admin enters the required data for the new book. 2. System reads the data entered by the admin and adds the book to the system, then the list of the books is updated. | | |
| Alternative flows | 1. The Admin adds a book that already is in the system: 2. The quantity of the book is updated, without adding the same book twice. | | |
| Exceptions | - | | |

## Delete a book:

|  |  |  |  |
| --- | --- | --- | --- |
| ID and name | UC-6: Delete a book | | |
| Primary actor | Admin | Secondary actors | Library Inventory System |
| Description | An admin tries to delete a book from the system. | | |
| Trigger | An admin presses the “delete a book” button. | | |
| Preconditions | PRE-1: Admin is logged in | | |
| Postconditions | POST-1: List of available books is updated. | | |
| Normal flow | 1. Admin selects a book from the list. 2. System deletes the book from the list and updates the list of books accordingly. | | |
| Alternative flows | - | | |
| Exceptions | 1. Error: At least one copy of that book is currently borrowed: 2. The system shows the error and doesn’t go through with the delete. | | |