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| ID and name | UC - 1: Log In | | |
| Primary actor | User | Secondary actors | System |
| Description | The User logs into the application by typing their account credentials | | |
| Trigger | User indicates the intention to log into the system. | | |
| Preconditions | PRE-1: The application is accessible.  PRE-2: User has a registered account. | | |
| Postconditions | POST-1: User is successfully logged into the system. | | |
| Normal flow | 1.0 Provide Credentials   1. User accesses the login interface. 2. User provides their username and password. 3. System verifies the provided credentials to be present in the stored user data and grants access to the user’s account. | | |
| Alternative flows |  | | |
| Exceptions | 1.0.E1 Invalid Credentials   1. System notifies the user that the credentials do not belong to an account.   2a. User refuses to provide the required credentials the use case is terminated.  2b. User provides the required credentials and the use case is restarted. | | |

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| ID and name | UC-2: Borrow Book | | |
| Primary actor | Subscriber | Secondary actors | Librarian |
| Description | The Subscriber accesses the system and creates a Borrow Request by selecting a book from a list of Available Books. Upon creating the request the Librarian receives an updated list of Requests. | | |
| Trigger | The Subscriber indicates the action of borrowing a book. | | |
| Preconditions | PRE-1. The Subscriber is logged into the system. | | |
| Postconditions | POST-1. Borrow Request is successfully recorded into the system.  POST-2. The Requests List is updated on the Librarian’s window. | | |
| Normal flow | 1.0 Create Borrow Request   1. Subscriber selects a book from the Available Books list. 2. Subscriber indicates that he wants to borrow the selected book. 3. System updates and displays the updated list of Borrow Requests for the Librarian. | | |
| Alternative flows |  | | |
| Exceptions |  | | |

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| ID and name | UC-3: Update Request | | |
| Primary actor | Librarian | Secondary actors | System |
| Description | The Librarian accesses the system and updates a Borrow Request by changing it’s status. | | |
| Trigger | The Librarian indicates the need to update a request | | |
| Preconditions | PRE-1. The Librarian is logged into the system. | | |
| Postconditions | POST-1. Request is successfully updated in the system.  POST-2. The Requests List is updated for the Librarian.  POST-3. If the Request was Accepted the Available Books list is updated for every Subscriber.  POST-4. If the Request was Accepted the Borrowed Books list is updated for the Librarian and the Subscriber. | | |
| Normal flow | 1.0 Update a Request   1. Librarian accesses the update requests functionality. 2. Librarian selects request from the list. (1.1) 3. Librarian changes status for request to Accepted. 4. Librarian indicates that the request updating is complete. 5. System updates and displays the updated list of requests. | | |
| Alternative flows | * 1. Declines Request  1. Librarian changes status for request to Declined. 2. Resumes normal flow of case use. | | |
| Exceptions |  | | |

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| ID and name | UC-4: Update Borrowed book | | |
| Primary actor | Librarian | Secondary actors | System |
| Description | The Librarian accesses the system to view the list of Borrowed Books. The Librarian can select any Book from the list to change it’s status to Returned. Upon declaring that the book has been returned, it is removed from the list of Borrowed Books and the list of Available Books is updated with the returned book. | | |
| Trigger | The Librarian indicates the need to update a Borrowed Book status. | | |
| Preconditions | PRE-1. The Librarian is logged into the system. | | |
| Postconditions | POST-1. The Borrowed Book’s status is changed in the system.  POST-2. The Available Books list is updated.  POST-3 The Borrowed Books list is updated. | | |
| Normal flow | 1.0 Update a Borrowed Book   1. Librarian accesses the update borrowed books functionality.(1.1) 2. Librarian selects borrowed book from the list. 3. Librarian changes status for borrowed book to Returned. 4. Librarian indicates that the request updating is complete. 5. System updates and displays the updated list of borrowed books. | | |
| Alternative flows | * 1. Update multiple Borrowed Books  1. Librarian selects multiple borrowed books from the list. | | |
| Exceptions |  | | |

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| ID and name | UC-5: Logout | | |
| Primary actor | User | Secondary actors | System |
| Description | User logs out of the system, terminating their current session and ending access to the application’s features. | | |
| Trigger | User indicates the intention to log out of the system. | | |
| Preconditions | PRE-1. User is logged into the system. | | |
| Postconditions | POST-1. User’s session is terminated.  POST-2. User is logged out of the system. | | |
| Normal flow | **1.0 Logout**   1. User triggers the logout action. 2. System prompts the user to confirm their decision to log out. 3. User confirms the logout action. (see 1.1) 4. System terminates the user’s current session. | | |
| Alternative flows | **1.1 Cancel Logout**   1. User decides not to log out of the system. 2. System terminates the use case. | | |
| Exceptions | **-** | | |

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| ID and name | UC-6: Add Subscriber | | |
| Primary actor | Admin | Secondary actors | System |
| Description | The Admin accesses the system and selects the Add Subscriber functionality. Upon inserting all the information a new Subscriber account will be created in the system. | | |
| Trigger | Admin indicates the intention to create a Subscriber account in the system. | | |
| Preconditions | PRE-1. Admin is logged into the system. | | |
| Postconditions | POST-1. Subscriber account has been created. | | |
| Normal flow | 1. Create Subscriber Acc 2. Admin accesses the Add Subscriber functionality. 3. System displays a window asking for details about the Subscriber. 4. Admin adds the required information about the new account and presses the save button. 5. System creates the account in the system. | | |
| Alternative flows |  | | |
| Exceptions | **1.1 Error while adding the item.**  4a. System shows message that the account was not created due to information errors.  4a.1 Admin re-adds the required information about the new account and return to stack 4 of the normal flow. | | |

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| ID and name | UC-7: Add Librarian | | |
| Primary actor | Admin | Secondary actors | System |
| Description | The Admin accesses the system and selects the Add Librarian functionality. Upon inserting all the information a new Librarian account will be created in the system. | | |
| Trigger | Admin indicates the intention to create a Librarian account in the system. | | |
| Preconditions | PRE-1. Admin is logged into the system. | | |
| Postconditions | POST-1. Librarian account has been created. | | |
| Normal flow | 1.0 Create Librarian Account   1. Admin accesses the Add Librarian functionality. 2. System displays a window asking for details about the Librarian. 3. Admin adds the required information about the new account and presses the save button. 4. System creates the account in the system. | | |
| Alternative flows |  | | |
| Exceptions | **1.1 Error while adding the item. Only 1 librarian can exist**  4a. System shows message that the account was not created due to maximum librarian accounts allowed reached.  4a.1 Create Librarian window closes. | | |

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| ID and name | UC-8: Update User | | |
| Primary actor | Admin | Secondary actors | System |
| Description | The Admin accesses the system and selects the Update User functionality. Upon inserting all the new information the User account will be updated in the system. | | |
| Trigger | Admin indicates the intention to update a User account in the system. | | |
| Preconditions | PRE-1. Admin is logged into the system.  PRE-2. User is selected in the Users List. | | |
| Postconditions | POST-1. Subscriber account has been updated. | | |
| Normal flow | 1. Create Subscriber Acc 2. Admin accesses the Update Subscriber functionality. 3. System displays a window showing all the User Account information 4. Admin changes the information about the account and presses the update button. 5. System updates the account in the system. | | |
| Alternative flows | 1.1 Admin pressed the cancel button.  3.1 All information is discarded and the window Update User window closes. | | |
| Exceptions | **1.1 Error while updating the item.**  4a. System shows message that the account was not updated due to information errors.  4a.1 Admin re-adds the required information about the updated account and return to stack 3 of the normal flow. | | |

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| ID and name | UC-9: Delete User | | |
| Primary actor | Admin | Secondary actors | System |
| Description | The Admin accesses the system and selects the Delete User functionality. Upon pressing the button the selected User will be deleted from the system. | | |
| Trigger | Admin indicates the intention to delete an User account in the system. | | |
| Preconditions | PRE-1. Admin is logged into the system.  PRE-2. User Account exists | | |
| Postconditions | POST-1. User account has been deleted. | | |
| Normal flow | 1. Delete User Acc 2. Admin accesses the Delete User functionality. 3. System displays a window asking for confirmation. 4. Admin confirms the deletion of the account. 5. System deletes the account in the system. | | |
| Alternative flows | 1.1 Admin Cancels the deletion.  3.1 Confirmation window closes. | | |
| Exceptions |  | | |

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| ID and name | UC-10: Manage Books | | |
| Primary actor | Admin | Secondary actors | System |
| Description | The Admin accesses the system and selects the Manage Booksfunctionality. Upon inserting all the information the amount of books in system will change. | | |
| Trigger | Admin indicates the intention to manage Books in the system. | | |
| Preconditions | PRE-1. Admin is logged into the system. | | |
| Postconditions | POST-1. Quantity of books has changed. | | |
| Normal flow | 1. Manage Books 2. Admin accesses the Manage Books functionality. 3. System displays a window asking for details about the book. 4. Admin adds the required information about the book and presses the save button. 5. System saves the book in the system. | | |
| Alternative flows | 1.1 Admin Pressed Delete Books  3.1 The book’s quantity is lowered by the inserted quantity amount.  1.2 Admin pressed Save – Book Exists  3.2 The book’s quantity is increased by the inserted quantity amount.  1.3 Admin presses Cancel.  3.3 All information is discarded and the Window closes | | |
| Exceptions | **1.0E Error while adding the item.**  4a. System shows message that the book was not created due to information errors.  4a.1 Admin re-adds the required information about the new account and return to stack 3 of the normal flow. | | |