|  |  |  |
| --- | --- | --- |
| **Actor** | **Actor Goals** | **Use case Name** |
| User | To create an account on the system. | Signup(UC 1) |
| User | To login to the system. | Login(UC 2) |
| User | To change my password. | ChangePassword(UC 3) |
| User | To explore books other users have posted to the system. | Explore(UC 4) |
| User | To post books Im willing to trade or loan on the system. | Loan(UC 5) |
| User | To post books Im willing to sell on the system. | Sell(UC 6) |
| User | To rate my experience during a specific transaction. | Rate(UC 7) |
| User | To report a user who has abused the system. | ReportUser(UC 8) |
| User | To contact admin on the system. | ContactAdmin(UC 9) |
| Admin | To reset user passwords. | ResetPassword(UC 10) |
| Admin | To see and review which users have been reported for bad behaviour. | ReviewUsers(UC 11) |
| Admin | To reverse transactions when something unexpected happens in the system. | ReverseTransactions(UC 12) |
| Admin | To see messages sent by users and respond to them. | ContactUser(UC 13) |
| User | To buy uploaded books | Buy(UC 14) |
| User | To rent uploaded books. | Rent(UC 15) |
| User | To change my details of my profile. | Details(UC 16) |
| User | To view profile of other users. | Profile(UC 17) |
| User | To view books uploaded by me. | SelfUploadedBooks(UC 18) |
| User | To get a discount as a student. | Discount(UC 19) |
| User | To logout of my session | Logout(UC 20) |
| Admin | To view information about the system | SystemInfo(UC 21) |
| Admin | To edit the system defaults | SystemDefaults(UC 22) |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Identifier** | **Priority** | **Requirement** |
| REQ 1 | 10 | The system shall create a new user with the given details. |
| REQ 2 | 10 | The system shall login a user if the username and password submitted are valid |
| REQ 3 | 9 | The system shall allow users to browse uploaded books. |
| REQ 4 | 9 | The system shall allow users to see details of a chosen book. |
| REQ 5 | 10 | The system shall allow a user to buy/rent a book given they are logged in, and it is not a book the user has uploaded. |
| REQ 6 | 6 | The system shall allow users to change their details at any time. |
| REQ 7 | 5 | The system shall allow users to browse other users profiles. |
| REQ 8 | 10 | The system shall allow users to upload books to sell/rent. |
| REQ 9 | 6 | The system shall allow users to browse their uploaded books. |
| REQ 10 | 8 | The system shall allow users to rate transactions. |
| REQ 11 | 7 | The system shall allow users to send messages to admins. |
| REQ 12 | 7 | The system shall give students discounts. |
| REQ 13 | 10 | The system shall allow users to logout from a seesion. |
| REQ 14 | 8 | The system shall allow admins to view system information. |
| REQ 15 | 9 | The system shall allow admins to edit the system defaults |
| REQ 16 | 10 | The system shall allow admins to reverse transactions, within reason. |
| REQ 17 | 7 | The system shall allow admins to respond to user messages. |
| REQ 18 | 4 | The system shall allow users to report other users for abusive behaviour. |
| REQ 19 | 4 | The system shall allow admins to review reported users and give neccassary punishment. |

|  |
| --- |
| **Use Case:** Signup(UC 1) |
| Related Requirements:  Initiating Actor: User  Actor’s Goal: To create an account on the system.  Participating Actors: ----  Preconditions: User has not made an account.  Email has not been used already.  Postconditions: ----  Flow of Events for Main Success Scenario:   * User inputs their details on the page * A new user is created in the database. |

|  |
| --- |
| **Use Case:** Login(UC 2) |
| **Related** **Requirements:**  **Initiating Actor:** User, Admin  **Actor’s Goal:** To login to the system.  **Participating Actors**: ---  **Preconditions:** User, Admin is not logged in already  **Postconditions:** User or Admin avatar is displayed on the page instead of Login.  **Flow of Events for Main Success Scenario:**   * User/Admin inputs their details on the page * Their details are validated * User/Admin logged in. |

|  |
| --- |
| **Use Case:** ChangePassword(UC 3) |
| **Related** **Requirements:**  **Initiating Actor:** User, Admin  **Actor’s Goal:** To change their password.  **Participating Actors**: ---  **Preconditions:** User/Admin inputs a valid registered email.  **Postconditions:**  User/Admin password in DB is changed.  **Flow of Events for Main Success Scenario:**   * User/Admin inputs their details on the page. * User/Admin details are validated. * User/Admin gets a reset link. * User/Admin inputs a new password. * User/Admin entry in database is updated. |

|  |
| --- |
| **Use Case:** Explore(UC 4) |
| **Related** **Requirements:**  **Initiating Actor:** User, Admin  **Actor’s Goal:** To explore books other users have posted to the system.  **Participating Actors**: ---  **Preconditions:** There are books in the database.  **Postconditions:** ---  **Flow of Events for Main Success Scenario:**   * Books uploaded by users are displayed on the explore page. * User/Admin click on a book to view its details. |

|  |
| --- |
| **Use Case:** Loan(UC 5) |
| **Related** **Requirements:**  **Initiating Actor:** User, Admin  **Actor’s Goal:** To post books User/Admin is willing to trade or loan on the system.  **Participating Actors**: ---  **Preconditions:** User/Admin has a registered account and is logged in.  **Postconditions:** Other Users/Admins can browse the uploaded book.  **Flow of Events for Main Success Scenario:**   * User/Admin goes to the upload book page. * User/Admin inputs the details of the book. * User/Admin specifies that they want to loan the book out. * Other Users/Admins can borrow the book. |

|  |
| --- |
| **Use Case:** Sell(UC 6) |
| **Related** **Requirements:**  **Initiating Actor:** User, Admin  **Actor’s Goal:** To post books Im willing to sell on the system.  **Participating Actors**: ---  **Preconditions:** User/Admin has a registered account and is logged in.  **Postconditions:** Other Users/Admins can browse the uploaded book.  **Flow of Events for Main Success Scenario:**   * User/Admin goes to the upload book page. * User/Admin inputs the details of the book. * User/Admin specifies that they want to sell the book. * Other Users/Admins can buy the book. |

|  |
| --- |
| **Use Case:** Rate(UC 7) |
| **Related** **Requirements:**  **Initiating Actor:** User, Admin  **Actor’s Goal:** To rate experience during a specific transaction.  **Participating Actors**: User  **Preconditions:** User/Admin has a registered account and is logged in.  Book being rented or bought is available.  Transaction is proccessed successfully.  **Postconditions:**  **Flow of Events for Main Success Scenario:**   * User/Admin views the book page. * User/Admin clicks Buy/Rent. * The transaction is processed. * User/Admin rates the experience transcation. |

|  |
| --- |
| **Use Case:** ContactAdmin(UC 9) |
| **Related** **Requirements:**  **Initiating Actor:** User  **Actor’s Goal:** To contact admin on the system.  **Participating Actors**: User, Admin  **Preconditions:** User has registered account and is logged in.  **Postconditions:** An Admin receives the user’s message.  **Flow of Events for Main Success Scenario:**   * User clicks Contact Admin. * User chooses the topic of the message * User fills in necassary information. * User clicks Submit. * An Admin receives the user’s message. |

|  |
| --- |
| **Use Case:** ReportUser(UC 8) |
| **Related** **Requirements:**  **Initiating Actor:** User  **Actor’s Goal:** To report a user who has abused the system.  **Participating Actors**: User, Admin  **Preconditions:** User has registered account and is logged in.  **Postconditions:** An admin receives a message that a user has been reported and all relevant details.  Admin decides if a punishment is necassary and if so, the extent of the punishment.  **Flow of Events for Main Success Scenario:**   * User goes to the offending user’s page. * User clicks Report. * User fills in relevant information of why the user is being reported. * User clicks Submit. * Admin receives a message that a user has been reported and all relevant details. * Admin decides if a punishment is necassary and if so, the extent of the punishment. |

|  |
| --- |
| **Use Case:** ReviewUsers(UC 11) |
| **Related** **Requirements:**  **Initiating Actor:** User  **Actor’s Goal:** To see and review which users have been reported for bad behaviour.  **Participating Actors**: User, Admin  **Preconditions:** Admin has registered account and is logged in.  **Postconditions:** User being reported is given punishment if necassary by Admin  **Flow of Events for Main Success Scenario:**   * Admin receives a message that a user has been reported and all relevant details. * Admin decides if a punishment is necassary and if so, the extent of the punishment. * User being reported is notified of any punishment. |
| **Use Case:** ReverseTransactions(UC 12) |
| **Related** **Requirements:**  **Initiating Actor:** Admin  **Actor’s Goal:** To reverse transactions when something unexpected happens in the system.  **Participating Actors**: User, Admin  **Preconditions:** Admin has registered account and is logged in.  Transaction has completed.  **Postconditions:** User buying or renting recieves their money back.  User selling or loaning recieves their book back.  **Flow of Events for Main Success Scenario:**   * Admin recieves a message from a User of a bad transaction. * Admin views the details of the transaction. * Admin can reverse the transaction. * User recieves their money back if necassary. |

|  |
| --- |
| **Use Case:** ContactUser(UC 13) |
| **Related** **Requirements:**  **Initiating Actor:** User  **Actor’s Goal:** To see messages sent by Users and respond to them.  **Participating Actors**: User, Admin  **Preconditions:** Admin has registered account and is logged in.  **Postconditions:** User receives message from Admin.  **Flow of Events for Main Success Scenario:**   * Admin recieves a message from a User. * Admin opens message * Admin responds to User. |
| **Use Case:** Buy(UC 14) |
| **Related** **Requirements:**  **Initiating Actor:** User  **Actor’s Goal:** To buy uploaded books  **Participating Actors**: User  **Preconditions:** User has registered account and is logged in.  **Postconditions:** User buying recieves book.  **Flow of Events for Main Success Scenario:**   * User clicks on book they wish to buy. * User clicks ‘Buy’. * User inputs how many copies of the book they want to buy. * User clicks ‘Buy’. * User recieves requested book and money deducted from them. |

|  |
| --- |
| **Use Case:** Rent(UC 15) |
| **Related** **Requirements:**  **Initiating Actor:** User  **Actor’s Goal:** To rent uploaded books  **Participating Actors**: User  **Preconditions:** User has registered account and is logged in.  **Postconditions:** User renting recieves book.  **Flow of Events for Main Success Scenario:**   * User clicks on book they wish to buy. * User clicks ‘Rent’. * User inputs how many copies of the book they want to rent. * User clicks ‘Rent’. * User recieves requested book and money deducted from them. * After a given period of time, the book is returned to the original owner. |

|  |
| --- |
| **Use Case:** Details(UC 16) |
| **Related** **Requirements:**  **Initiating Actor:** User  **Actor’s Goal:** To change my details of my profile.  **Participating Actors**: User  **Preconditions:** User has registered account and is logged in.  **Postconditions:** User’s details are changed.  **Flow of Events for Main Success Scenario:**   * User clicks on their profile picture and chooses ‘Settings’. * User inputs their new details. * User clicks ‘Submit’. * User’s details are changed. |

|  |
| --- |
| **Use Case:** Profile(UC 17) |
| **Related** **Requirements:**  **Initiating Actor:** User  **Actor’s Goal:** To view profile of other users.  **Participating Actors**: User  **Preconditions:** User has registered account and is logged in.  **Postconditions:** User views another user’s profile.  **Flow of Events for Main Success Scenario:**   * User clicks name of Uploader on Book page. * User is redirected to the user’s profile page. |

|  |
| --- |
| **Use Case:** SelfUploadedBooks(UC 18) |
| **Related** **Requirements:**  **Initiating Actor:** User  **Actor’s Goal:** To view books uploaded by me.  **Participating Actors**: User  **Preconditions:** User has registered account and is logged in.  **Postconditions:** User views their uploaded books.  **Flow of Events for Main Success Scenario:**   * User clicks on their profile picture and chooses ‘My Books’. * User can view their uploaded books. |

|  |
| --- |
| **Use Case:** Discount(UC 19) |
| **Related** **Requirements:**  **Initiating Actor:** User  **Actor’s Goal:** To get a discount as a student.  **Participating Actors**: User  **Preconditions:** User has registered account and is part of an academic instatution.  **Postconditions:** User gets a discount on books.  **Flow of Events for Main Success Scenario:**   * User chooses to buy a book. * User gets a discount. |

|  |
| --- |
| **Use Case:** Logout(UC 20) |
| **Related** **Requirements:**  **Initiating Actor:** User  **Actor’s Goal:** To logout of my session  **Participating Actors**: User  **Preconditions:** User has registered account and is logged in.  **Postconditions:** User is logged out of their session.  **Flow of Events for Main Success Scenario:**   * User clicks on their profile picture and chooses ‘Logout’. * User is logged out of their session. |

|  |
| --- |
| **Use Case:** SystemInfo(UC 21) |
| **Related** **Requirements:**  **Initiating Actor:** Admin  **Actor’s Goal:** To view information about the system.  **Participating Actors**: Admin  **Preconditions:** Admin has registered account and is logged in.  **Postconditions:** Admin views information of the system.  **Flow of Events for Main Success Scenario:**   * Admin goes to the Administration page and clicks ‘View System Info’. * Admin views information of the system. |

|  |
| --- |
| **Use Case:** SystemDefaults(UC 22) |
| **Related** **Requirements:**  **Initiating Actor:** Admin  **Actor’s Goal:** To edit the system defaults.  **Participating Actors**: Admin  **Preconditions:** Admin has registered account and is logged in.  **Postconditions:** The defaults of the system are changed.  **Flow of Events for Main Success Scenario:**   * Admin goes to the Administration page and clicks ‘Edit System Defaults’. * Admin inputs the new system defaults. * Admin clicks ‘Save’. * The system defaults are changed. |

|  |
| --- |
| **Use Case:** ResetPassword(UC 10) |
| **Related** **Requirements:**  **Initiating Actor:** Admin  **Actor’s Goal:** To edit the paswords of Users.  **Participating Actors**: Admin, User  **Preconditions:** Admin has registered account and is logged in.  **Postconditions:** The user’s password is changed.  **Flow of Events for Main Success Scenario:**   * Admin goes to the user’s profile. * Admin inputs the new password. * Admin saves it. * The users password is changed. |