

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 session.
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 necessary 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.
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**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 processed 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 transaction.

**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 necessary 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 necessary 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 necessary 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 necessary 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 necessary 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 receives their money back.

User selling or loaning receives their book back.

**Flow of Events for Main Success Scenario:**

- Admin receives a message from a User of a bad transaction.
- Admin views the details of the transaction.
- Admin can reverse the transaction.
- User receives their money back if necessary.

**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 receives 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 receives 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 receives 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 receives 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 receives 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 institution.

**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 passwords 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.