Use case for library

ID and name	UC1 Borrow a book		
Primary actor	Subscriber		
Description	A library subscriber accesses a terminal, views all the existing books at that moment in time, selects a book or multiple books, and then marks them as borrowed		
Trigger	User wants to borrow a book		
Preconditions	Pre1- User is logged in		
Postconditions	Post1 - Book is saved as borrowed		
Normal flow	1.0 Borrow a single book 1. User asks to view all the books in the system 2. System displays all the books 3. User selects the book he wants to borrow, and actions an “add to list” button (see 1.0.E1) 4. System updates a temporary “to borrow” list 5. User actions a “burrow books” button 6. System displays a confirmation message 7. System stores the borrowing of the book		
Alternative flows	1.1 Borrow multiple books 1. User wants to borrow another book 2. Return to step 3 of normal flow 1.2 Revoking a book from the list 1. User no longer wants to borrow one of the books 2. User selects said book from the temporary list 3. User actions the “remove book from list” button 4. Return to step 3 of normal flow		
Exceptions	1.0.E1 User selects an unavailable book 1. System informs the user that the book is unavailable 2. User: a. Selects another book to borrow, return to step 4 of normal flow b. Cancels the borrowing, then the System terminates the use case		

ID and name	UC2 Return a book		
Primary actor	Librarian		
Description	The librarian accesses it’s terminal, views all books and borrowed books, selects a borrowed book and marks it as returned		
Trigger	The librarian wants to mark a book as returned		
Preconditions	Pre1: the Librarian is logged in		
Postconditions	Post1: the book is marked as returned Post2: the stock is updated adding an available exemplar		
Normal flow	2.0 Return a single book 1. Librarian asks to view all the books in the system 2. System displays all the books 3. Librarian selects the book she wants to mark as returned(see 2.0.E1) 4. System displays a confirmation box 5. The librarian confirms that she wants to mark the book as returned (see 2.1) 6. System sends a confirmation message 7. System marks the book as returned and updates the stock		
Alternative flows	2.1 Changing the returned book 1. Librarian chooses to not mark the book as returned 2. Return to step 2 of normal flow		
Exceptions	2.0.E1 Power cut 1. The system cancels the use case		

ID and name	UC3 Log In		
Primary actor	User		

Description	The user accesses it’s terminal, fills in the authentication credentials, and then it’s logged in the system
Trigger	The user wants to use the system
Preconditions	-
Postconditions	Post1: the user is logged in the system
Normal flow	3.0 Log In 1. The user asks to log in 2. System displays the login form 3. The user fills out the form with his credentials and submits it (see 3.0.E1) 4. System checks the credentials 5. System displays a confirmation message 6. System logs in the user
Alternative flows	-
Exceptions	3.0.E1 Incorrect credentials 1. The system displays an error message and brings the user back to the login form 2. User: a. Refills the form, return to step 4 of normal flow b. Aborts the login, system terminates UC

ID and name	UC4 Add New Book In The System		
Primary actor	Admin		
Description	The admin accesses it’s terminal, sees all the books in the system, and chooses to add a new book		
Trigger	The admin wants to add a new book in the system		
Preconditions	Pre1: the admin is logged in the system		
Postconditions	Post1: the new book is saved in the system		
Normal flow	4.0 Add a new book		

	1. System displays all the books in the system 2. The admin chooses to add a new book 3. System displays a form to add a new book 4. The admin fills the form and submits it (see 4.0.E1) 5. System sends a confirmation message 6. The book is saved in the system
Alternative flows	-
Exceptions	4.0.E1 Already Existing book 1. The system informs the admin that the book already exists in the system 2. The admin: a. Chooses to add a different book, return to step 3 of normal flow b. Chooses to update the already existing book, goes to step 4 of normal flow of UC5 c. Cancels the operation, the system terminates UC

ID and name	UC5 Update Book In The System		
Primary actor	Admin		
Description	The admin accesses it's terminal, sees all the books in the system, and chooses to update a book		
Trigger	The admin wants to update a book in the system		
Preconditions	Pre1: the admin is logged in the system		
Postconditions	Post1: the book is updated in the system		
Normal flow	5.0 Update a book 1. System displays all the books in the system 2. The admin selects a book 3. The admin selects the update book action 4. System displays a prefilled form with the current information about the book 5. The admin modifies the form content and submits it (see 5.0.E1)		

	6. System sends a confirmation message 7. The book is updated in the system
Alternative flows	-
Exceptions	5.0.E1 Updates leads to 2 identical books 1. The system informs the admin that the updates would lead to 2 identical books be stored in the system 2. The admin: a. Chooses to remodify the form, return to step 5 of normal flow b. Cancels the operation, the system terminates UC

ID and name	UC6 Delete a Book from The System		
Primary actor	Admin		
Description	The admin accesses it's terminal, sees all the books in the system, and chooses to delete a book		
Trigger	The admin wants to delete a book from the system		
Preconditions	Pre1: the admin is logged in the system		
Postconditions	Post1: the book is deleted from the system		
Normal flow	6.0 Update a book 1. System displays all the books in the system 2. The admin selects a book 3. The admin selects the delete book action 4. System displays a confirmation box 5. The admin confirms that he wants to delete the book (see 6.1) 6. System sends a confirmation message 7. System deletes the book		
Alternative flows	6.1 Changing the deleted book 1. Admin chooses to not mark the book as returned 2. Return to step 2 of normal flow		
Exceptions	6.0.E1 Power Cut 1. The book is not deleted and system terminates the use case		

ID and name	UC7 Filter books		
Primary actor	User		
Description	The user accesses it’s terminal, sees all the books in the system, and chooses to filter the books by a criteria		
Trigger	The user wants to see a filtered list of all the books		
Preconditions	Pre1: the user is logged in the system		
Postconditions	Post1: a filtered list is displayed		
Normal flow	7.0 Filter books by name 1. System displays all the books in the system 2. The user selects to filter by name (see 7.1) 3. System displays a search field 4. The user fills the search field 5. System shows the filtered list		
Alternative flows	7.1 Filter books by author 1. The user selects to filter by author(see 7.1) 2. Return to step 3 of normal flow		
Exceptions	7.0.E1 No books matching the filter 1. System informs the user that there are no books matching the applied filter, displays all the books in the system, and terminates UC		