Library

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| ID and name | UC-1: Borrow a book | | |
| Primary actor | Subscriber | Secondary actors | Terminal, Printer, Vending Machine |
| Description | A subscriber acceses a terminal, search for books, place an order to borrow books | | |
| Trigger | A subscriber indicates that he want to place an order | | |
| Preconditions | PRE-1: The subscriber is logged in the Terminal | | |
| Postconditions | POST-1: the ordered is stored with the status accepted  POST-2: the inventory of available books is updated | | |
| Normal flow | **1.0 Borrow a single book**  1. The terminal shows a list of books ordered alphabetically.  2. The subscriber selects one book.  3. The terminal shows a notification that indicates that the book was added to the cart .  4. The subscriber indicates that the borrow order is complete. (See 1.1)  5. The terminal indicates that the order is finished and displays instructions for getting the ordered book.  6. The terminal sends a signal to the printer to print a ticket.  7. The terminal sends an email message confiming the order.  8. The subscriber introduces the ticket into vending machine.  9. The vending machine drops the ordered book.  10. The list of book is updated for all users. | | |
| Alternative flows | **1.1 Borrow multiple books**  1. The subscriber selects another book.  2. Return to step 3 of normal flow. | | |
| Exceptions |  | | |

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| ID and name | UC-2: Return a book | | |
| Primary actor | Librarian | Secondary actors | Subscriber, Vending Machine, Terminal |
| Description | A subscriber comes to the librarian to return a book, the librarian returns the book in the library application and vending machine. | | |
| Trigger | A subscriber comes to the librarian and indicates that he wants to return a book. | | |
| Preconditions | PRE-1: The librarian is logged in the Terminal | | |
| Postconditions | POST-1: the return is stored with the status accepted  POST-2: the inventory of available books is updated | | |
| Normal flow | **1.0 Return a single book**  1. The terminal shows a list of books ordered alphabetically.  2. The librarian inserts the book id in a text field and indicate that he wants to return the book . (See 1.0.E1)  3. The terminal shows a notification that indicates that the book was returned to the library repository. ( See 1.1)  4. The librarian take the book and insert it in the vending machine.  5. The list of book is updated for all users. | | |
| Alternative flows | **1.1 Return multiple books**  1. The librarian inserts another book id in the text field.  2. Return to step 3 of normal flow. | | |
| Exceptions | **1.0.E1 The inserted id is incorrect**  1. The Terminal informs the librarian that the inserted id is incorrect  2. Return to step 2 of the normal flow | | |

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| ID and name | UC-3: Log in as subscriber | | |
| Primary actor | Subscriber | Secondary actors | Terminal |
| Description | A subscriber acceses a terminal and loggs in. | | |
| Trigger | A subscriber indicate that he want to log in as a subscriber. | | |
| Preconditions | PRE-1: The subscriber has an account | | |
| Postconditions | POST-1: the subscriber is logged in | | |
| Normal flow | **1.0 Log in**  1. The subscriber indicates that he wants to log in.  2. The terminal shows a text field for username and a text field for password.  3. The subscriber inserts the username and the password and indicates to log in.  4. The terminal shows the main page.  5. The list of book is updated for all users. | | |
| Alternative flows | **1.1 Return multiple books**  1. The librarian inserts another book id in the text field.  2. Return to step 3 of normal flow. | | |
| Exceptions | **1.0.E1 The inserted username and password are incorrect**  1. The Terminal informs the subscriber that the credentials are incorrect.  2. Return to step 3 of the normal flow. | | |

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| ID and name | UC-4: Log in as librarian | | |
| Primary actor | Librarian | Secondary actors | Terminal |
| Description | A librarian acceses a terminal and loggs in. | | |
| Trigger | A librarian indicate that he want to log in as a librarian. | | |
| Preconditions | PRE-1: The librarian has an account | | |
| Postconditions | POST-1: the librarian is logged in | | |
| Normal flow | **1.0 Log in**  1. The librarian indicates that he wants to log in.  2. The terminal shows a text field for username and a text field for password.  3. The librarian inserts the username and the password and indicates to log in.  4. The terminal shows the main page.  5. The list of book is updated for all users. | | |
| Alternative flows |  | | |
| Exceptions | **1.0.E1 The inserted username and password are incorrect**  1. The Terminal informs the librarian that the credentials are incorrect.  2. Return to step 3 of the normal flow. | | |

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| ID and name | UC-5: Add a book | | |
| Primary actor | Librarian | Secondary actors | Terminal |
| Description | A librarian acceses a terminal and adds a book to the library. | | |
| Trigger | A librarian indicate that he want to add a book. | | |
| Preconditions | PRE-1: The librarian is logged in | | |
| Postconditions | POST-1: A book was added | | |
| Normal flow | **1.0 Add a book**  1. The librarian indicates that he wants to add a book.  2. The terminal shows a text field for title and a text field for author.  3. The librarian inserts the title and the author of the book and indicates that he want to add the book. (See 1.1)  4. The terminal informs the librarian that the book was added. | | |
| Alternative flows | **1.1 Add multiple books**  1. The librarian inserts another title and author in the text fields.  2. Return to step 4 of normal flow. | | |
| Exceptions |  | | |

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| ID and name | UC-6: Modify a book | | |
| Primary actor | Librarian | Secondary actors | Terminal |
| Description | A librarian acceses a terminal and modify a book. | | |
| Trigger | A librarian indicate that he want to modify a book. | | |
| Preconditions | PRE-1: The librarian is logged in. | | |
| Postconditions | POST-1: A book was modified. | | |
| Normal flow | **1.0 Modify a book**  2. The terminal shows a list of books and text fields for book id, title and author.  3. The librarian selects a book and insert the title and the author of the book and indicates that he want to modify the book. (See 1.1, 1.0.E1)  4. The terminal informs the librarian that the book was modified. | | |
| Alternative flows | **1.1 Modify multiple books**  1. The librarian selects another book and inserts the title and author in the text fields.  2. Return to step 4 of normal flow. | | |
| Exceptions | **1.0.E1 A book is not selected**  1. The terminal informs the librarian that he has to select a book to modify  2. Return to step 1 of the normal flow | | |

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| ID and name | UC-7: Delete a book | | |
| Primary actor | Librarian | Secondary actors | Terminal |
| Description | A librarian acceses a terminal and deletes a book. | | |
| Trigger | A librarian indicate that he want to delete a book. | | |
| Preconditions | PRE-1: The librarian is logged in. | | |
| Postconditions | POST-1: A book was deleted. | | |
| Normal flow | **1.0 Delete a book**  2. The terminal shows a list of books  3. The librarian selects a book and indicate that he wants to delete the book. (See 1.1, 1.0.E1)  4. The terminal informs the librarian that the book was deleted. | | |
| Alternative flows | **1.1 Delete multiple books**  1. The librarian selects another book and inserts the title and author in the text fields.  2. Return to step 4 of normal flow. | | |
| Exceptions | **1.0.E1 A book is not selected**  1. The terminal informs the librarian that he has to select a book in order to delete  2. Return to step 1 of the normal flow | | |