## **Use case template**

An adaptation of the standard Cockburn template will be used. The template and examples follow:

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| ID and name | BR-1: Borrow books | | |
| Primary actor | Subscriber | Secondary actors | Library Borrowing System |
| Description | A subscriber accesses the Library Borrowing System from a terminal, views a list of all available books, selects the books he wants to borrow and a return date for each one. He confirms the borrow request and pick up the books. | | |
| Trigger | A subscriber indicates that he wants to borrow books from the library. | | |
| Preconditions | PRE-1. Subscriber is logged into a terminal. | | |
| Postconditions | POST-1. The borrowing request is stored in the LBS with the status “Accepted”. POST-2. Inventory of available books is updated. | | |
| Normal flow | 1. Borrow one or more books 2. Subscriber wants to view the books that can be borrowed from the library. 3. LBS displays a list of books. 4. Subscriber selects one or more books from the list. 5. LBS asks for the dates Subscriber plans on returning each book. 6. Subscriber enters the dates of his choosing from the available dates given by LBS. 7. Subscriber indicates that he is satisfied with the selection. 8. LBS displays the books foe borrow, their return date, individual price for each and a total cost. 9. Subscriber either confirms the borrow request (continues normal flow) or choses to modify his selection (return to step 2) 10. Subscriber specifies payment method. 11. LBS confirms acceptance of the request. | | |
| Alternative flows |  | | |
| Exceptions |  | | |

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| ID and name | RT-1: Return books | | |
| Primary actor | Librarian | Secondary actors | Library Borrowing System, Subscriber |
| Description | A librarian accesses the Library Borrowing System, finds the request of the subscriber who is ready to return the books, changes the book status from the request to “returned” and retrieves the books from the Subscriber. The Librarian charges additional fees in case the books were not returned before the appointed date. | | |
| Trigger | A subscriber comes to the librarian with the books he plans to return. | | |
| Preconditions | PRE-1. Librarian is logged into the LBS.  PRE-2. Subscriber has an available request with books to return. | | |
| Postconditions | POST-1. The books returned are have their status in the request changed to “returned” POST-2. Inventory of available books is updated. | | |
| Normal flow | 1. Return one or more books. 2. Subscriber wants to return the books he borrowed from the library. 3. Librarian asks for a list of all the requests. 4. LBS displays a list of every Subscriber and it’s requests. 5. Librarian identifies the Subscriber’s request. 6. Librarian takes the books from the Subscriber. 7. Librarian changes the status of all the books in the request returned by the Subscriber to “returned”. 8. LBS asks if Librarian wants to confirm the changes. (see 1.1) 9. Librarian confirms | | |
| Alternative flows | 1.1Charging additional fees for return delay.  1. LBS notifies that the books were not returned before the date and displays the additional fees.  2. Subscriber choses the payment method and pays for the additional fees. | | |
| Exceptions |  | | |

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| ID and name | LG-1 | | |
| Primary actor | Subscriber | Secondary actors | Library Borrowing System |
| Description | Subscriber logs into the Library Borrowing System | | |
| Trigger | Subscriber indicates that he wants to use a terminal | | |
| Preconditions | Subscriber is already registered into LBS | | |
| Postconditions | Subscriber is logged into a terminal and has access to it’s functions. | | |
| Normal flow | 1. Login 2. Subscriber asks a terminal to log into LBS 3. LBS displays a form with required fields for identification 4. Subscriber fills the fields with the appropriate information. 5. Subscriber confirms the login request (see 1.0.E1) 6. LBS opens the Subscriber window on the terminal. | | |
| Alternative flows |  | | |
| Exceptions | 1.0.E1 Failing to Login  1. LBS displays a message with the fields containing incorrect information. | | |