## **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 | UC-1: Log in | | |
| Primary actor | Subscriber/Librarian (User) | Secondary actors |  |
| Description | A subscriber or a librarian (user) logs into the system using a terminal with a username and a password. | | |
| Trigger | A subscriber wants to borrow a book or a librarian wants to add or return a book | | |
| Preconditions | None | | |
| Postconditions | POST-1. On login success, the user is presented with the corresponding information. | | |
| Normal flow | 1. The user introduces the username and password. 2. The user presses the login button. 3. They are logged into the application and are shown the corresponding menu. | | |
| Alternative flows |  | | |
| Exceptions | The user introduces a wrong user name or password. The application shows a message box informing the user. | | |

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| ID and name | UC-2: Register subscriber | | |
| Primary actor | Librarian | Secondary actors |  |
| Description | A librarian registers a new subscriber into the system. | | |
| Trigger |  | | |
| Preconditions | PRE-1: The librarian is logged in | | |
| Postconditions | POST-1: The subscriber is added to the database | | |
| Normal flow | 1. The librarian presses the “Register” button 2. The system opens a new window 3. The librarian introduces all the personal data of the subscriber (CNP, name, address, phone number) 4. The librarian presses the “Confirm button” 5. The system notifies the librarian that the action was successful (message box) | | |
| Alternative flows | - | | |
| Exceptions | There’s already a user with that CNP inside the system.   * The system notifies the librarian about this with a message box and the action is canceled. | | |

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| ID and name | UC-3: Add book | | |
| Primary actor | Librarian | Secondary actors |  |
| Description | A librarian adds a number of samples of a book to the library. | | |
| Trigger | ? | | |
| Preconditions | PRE-1: The librarian is logged in | | |
| Postconditions | POST-1: The sample of the book is added to the library and the “Available books” table is updated accordingly | | |
| Normal flow | 1. The librarian introduces all the data of the book to be added in text fields 2. The librarian presses the “Add” button | | |
| Alternative flows | - | | |
| Exceptions | Invalid data is introduced   * The system notifies the librarian bout this with a message box and the action is canceled. | | |

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| ID and name | UC-4: View borrowed books | | |
| Primary actor | Subscriber/Librarian (User) | Secondary actors |  |
| Description | A user views the list of borrowed books (for a certain user) | | |
| Trigger | The subscriber logs in/ The librarian presses the borrowed books button. | | |
| Preconditions | PRE-1: The user is logged in. | | |
| Postconditions | POST-1: The table is updated accordingly | | |
| Normal flow | 1. The user presses the “Borrowed books” button 2. The system opens a new window 3. The user introduces the CNP of the user for whom he wants to see the borrowed books 4. The user presses the “Search” button | | |
| Alternative flows | The user is a subscriber and the list of borrowed books is shown as soon as he logs in | | |
| Exceptions | - | | |

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| ID and name | UC-5: Return book | | |
| Primary actor | Librarian | Secondary actors |  |
| Description | A librarian … | | |
| Trigger | A subscriber comes to a serving point to return a book and the librarian wants to help him. | | |
| Preconditions | PRE-1: The librarian is logged in. | | |
| Postconditions | POST-1: The sample is added into the database | | |
| Normal flow | 1. The librarian presses the “Borrowed books” button 2. The system opens a new window 3. The librarian inserts into the text field the CNP of the user that wants to borrow the book and presses the “Search” button 4. The system updates the table with the borrowed book of that user | | |
| Alternative flows | - | | |
| Exceptions | The user doesn’t exist   * The system notifies the librarian about this and cancel the action | | |

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| ID and name | UC-6: View available books | | |
| Primary actor | Subscriber/Librarian (User) | Secondary actors |  |
| Description | The user can view the list of available books. | | |
| Trigger | Logging in? | | |
| Preconditions | PRE-1: The user must be logged in | | |
| Postconditions | - | | |
| Normal flow | The list of available books is shown inside the main window. | | |
| Alternative flows | - | | |
| Exceptions | - | | |

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| ID and name | UC-7: Borrow a book | | |
| Primary actor | Subscriber | Secondary actors |  |
| Description | A subscriber borrows a book using the terminal. | | |
| Trigger | A subscriber wants to borrow a book. | | |
| Preconditions | PRE-1: The subscriber is logged in. | | |
| Postconditions | POST-1: The sample of the borrowed book is removed from the database and updates the “Available books” and “Borrow books” tables are updated accordingly | | |
| Normal flow | 1. The subscriber clicks inside the “Available books” table 2. The subscriber presses the “Borrow” button 3. A message box pops up notifying the subscriber that the borrowing was succesful | | |
| Alternative flows | - | | |
| Exceptions | - | | |