Use case: Signup

|  |  |  |  |
| --- | --- | --- | --- |
| UC Code | UC001 | Use case name | Signup |
| Actor | Guest, library system | | |
| Precondition | None | | |
| Main flow of event (success) | |  |  |  | | --- | --- | --- | | # | Actor | Action | | 1 | User | Request signup | | 2 | System | Display signup form | | 3 | User | Fill in form | | 4 | User | Submit information | | 5 | System | Save user information to member database | | | |
| Alternative flow of event | |  |  |  | | --- | --- | --- | | # | Actor | Action | | 1 | System | Notify login error if there is any mistake in user input | | 2 | System | Prompt user to re-enter their information | | | |
| Post condition | None | | |

Use case: Login

|  |  |  |  |
| --- | --- | --- | --- |
| UC Code | UC002 | Use case name | Login |
| Actor | Guest/Member/Staff in general, library system | | |
| Precondition | Actor already had a registered account | | |
| Main flow of event (success) | |  |  |  | | --- | --- | --- | | # | Actor | Action | | 1 | User | Enter login credentials | | 2 | System | Verify login credentials | | 3 | System | Redirect user to homepage | | | |
| Alternative flow of event | |  |  |  | | --- | --- | --- | | # | Actor | Action | | 1 | System | Notify login error if username or password is incorrect. | | 2 | System | Prompt user to re-enter login credentials | | | |
| Post condition | None | | |

Use case: Modify profile

|  |  |  |  |
| --- | --- | --- | --- |
| UC Code | UC003 | Use case name | Modify profile |
| Actor | Member/Administration Office, library system | | |
| Precondition | Actor has access to account they wish to modify | | |
| Main flow of event (success) | |  |  |  | | --- | --- | --- | | # | Actor | Action | | 1 | User | Enter login credentials | | 2 | System | Verify login credentials | | 3 | System | Redirect user to homepage | | 4 | User | Select “Profile” option | | 5 | System | Display account profile | | 6 | User | Select “Update” option | | 7 | System | Display profile table for current account | | 8 | User | Change profile information | | 9 | User | Select “Save” to submit new information | | 10 | System | Save new information | | | |
| Alternative flow of event | |  |  |  | | --- | --- | --- | | # | Actor | Action | | 1 | System | Notify login error if there is any mistake in login credentials | | 2 | System | Prompt user to re-enter login credentials | | | |
| Post condition | None | | |

Use case: Request library member card

|  |  |  |  |
| --- | --- | --- | --- |
| UC Code | UC004 | Use case name | Request library member card |
| Actor | Member, library system | | |
| Precondition | Member already logged in a registered account | | |
| Main flow of event (success) | |  |  |  | | --- | --- | --- | | # | Actor | Action | | 1 | User | Request member card | | 2 | System | Display card option | | 3 | User | Select “Virtual” or “Physical” | | 4 | User | Submit selection | | 5 | System | Save request | | | |
| Alternative flow of event | None | | |
| Post condition | None | | |

Use case: Contents search

|  |  |  |  |
| --- | --- | --- | --- |
| UC Code | UC005 | Use case name | Contents search |
| Actor | Guest/Member/Staff in general, library system | | |
| Precondition | None | | |
| Main flow of event (success) | |  |  |  | | --- | --- | --- | | # | Actor | Action | | 1 | User | Enter search criteria | | 2 | System | Display all contents available in library those match the search criteria | | 3 | User | Choose “Sort by” option | | 4 | System | Display sorting categories | | 5 | User | Choose categories to sort search results | | 6 | System | Sort results by selected categories | | | |
| Alternative flow of event | |  |  |  | | --- | --- | --- | | # | Actor | Action | | 1 | System | Return “Not found” page when the search finds no results | | | |
| Post condition | None | | |

Use case: Borrow contents (applies to both virtual and physical contents)

|  |  |  |  |
| --- | --- | --- | --- |
| UC Code | UC006 | Use case name | Borrow contents |
| Actor | Member, library system | | |
| Precondition | Actor already logged in a registered account | | |
| Main flow of event (success) | |  |  |  | | --- | --- | --- | | # | Actor | Action | | 1 | User | Select contents | | 2 | User | Select “Borrow” option | | 3 | System | Save request | | 4 | System | Display checkout requirements | | 5 | User | Complete requests (if any) | | 6 | User | Confirm checkout | | 7 | System | Process request | | | |
| Alternative flow of event | |  |  |  | | --- | --- | --- | | # | Actor | Action | | 1 | System | Notify error upon detecting invalidities | | 2 | System | Prompt user to correct invalidities | | | |
| Post condition | None | | |

Use case: Return borrowed physical contents

|  |  |  |  |
| --- | --- | --- | --- |
| UC Code | UC007 | Use case name | Return contents |
| Actor | Librarian, library system | | |
| Precondition | Actor already logged into an authorized account | | |
| Main flow of event (success) | |  |  |  | | --- | --- | --- | | # | Actor | Action | | 1 | User | Select borrow order | | 2 | System | Display order details | | 3 | User | Confirm return has been validated | | 4 | System | Update corresponding contents’ status | | | |
| Alternative flow of event | None | | |
| Post condition | None | | |

Use case: Request help

|  |  |  |  |
| --- | --- | --- | --- |
| UC Code | UC008 | Use case name | Request help |
| Actor | Member, task Office, library system | | |
| Precondition | Actor already logged into an authorized account | | |
| Main flow of event (success) | |  |  |  | | --- | --- | --- | | # | Actor | Action | | 1 | Member | Issue a request for help | | 2 | System | Send request to task Office | | 3 | Task Office | Accept request | | 4 | System | Establish connection between member and task Office | | 5 | System | Display account profile | | 6 | Member and Task Office | Input conversation | | 7 | Member | Terminate session | | 8 | System | Save conversation log | | 9 | System | Terminate session | | | |
| Alternative flow of event | None | | |
| Post condition | None | | |

Use case: Update new contents

|  |  |  |  |
| --- | --- | --- | --- |
| UC Code | UC009 | Use case name | Update new contents |
| Actor | Librarian, Document Implementing Office, Adminstration Office, library system | | |
| Precondition | Actor already logged in a registered account and has permission to commit this action | | |
| Main flow of event (success) | |  |  |  | | --- | --- | --- | | # | Actor | Action | | 1 | User | Select “Update New Contents” | | 2 | System | Display importing methods | | 3 | User | Choose importing methods (manual input or import data tables) | | 4 | System | Save new input data | | | |
| Alternative flow of event | |  |  |  | | --- | --- | --- | | # | Actor | Action | | 1 | System | Notify error upon finding invalid input data (existed/invalid format) | | 2 | System | Prompt user to correct invalidities | | | |
| Post condition | None | | |

Use case: Categorize new contents

|  |  |  |  |
| --- | --- | --- | --- |
| UC Code | UC010 | Use case name | Categorize new contents |
| Actor | Librarian/Administration Office, library system | | |
| Precondition | Actor already logged in an authorized account and has permission to commit this action | | |
| Main flow of event (success) | |  |  |  | | --- | --- | --- | | # | Actor | Action | | 1 | User | Add tags to categorize contents | | 2 | System | Save added tags | | | |
| Alternative flow of event | None | | |
| Post condition | None | | |

Use case: Assign contents codes

|  |  |  |  |
| --- | --- | --- | --- |
| UC Code | UC011 | Use case name | Assign contents codes |
| Actor | Librarian/Administration Office, library system | | |
| Precondition | Actor already logged in an authorized account and has permission to commit this action | | |
| Main flow of event (success) | |  |  |  | | --- | --- | --- | | # | Actor | Action | | 1 | User | Input code for contents | | 2 | System | Save input | | 3 | User | Modify an existing code | | 4 | System | Save changes | | | |
| Alternative flow of event | |  |  |  | | --- | --- | --- | | # | Actor | Action | | 1 | System | Notify if there’s an already existed code for a book identical to the one user trying to assign the code | | 2 | System | Prompt user to re-enter the code | | | |
| Post condition | None | | |

Use case: Export statistics

|  |  |  |  |
| --- | --- | --- | --- |
| UC Code | UC012 | Use case name | Export statistics |
| Actor | Librarian/Administration Office, library system | | |
| Precondition | Actor already logged in an authorized account | | |
| Main flow of event (success) | |  |  |  | | --- | --- | --- | | # | Actor | Action | | 1 | User | Select criteria to export to stats | | 2 | System | Fetch data based on selected criteria to statistics | | 3 | System | Display exported file | | | |
| Alternative flow of event | None | | |
| Post condition | None | | |

Use case: Check borrowing activity

|  |  |  |  |
| --- | --- | --- | --- |
| UC Code | UC013 | Use case name | Check borrowing activity |
| Actor | Librarian/Administration Office, library system | | |
| Precondition | Actor already logged into an authorized account | | |
| Main flow of event (success) | |  |  |  | | --- | --- | --- | | # | Actor | Action | | 1 | User | Request display borrow activity | | 2 | System | Display all borrow activities | | 3 | User | Search for activities with specific criteria (members’ name, contents, borrow date, …) | | 4 | System | Display all activities match specified criteria | | | |
| Alternative flow of event | None | | |
| Post condition | None | | |

Use case: Report currently available contents

|  |  |  |  |
| --- | --- | --- | --- |
| UC Code | UC014 | Use case name | Report currently available contents |
| Actor | Document Implementing Office/Administration Office, library system | | |
| Precondition | Actor already logged in an authorized account | | |
| Main flow of event (success) | |  |  |  | | --- | --- | --- | | # | Actor | Action | | 1 | User | Request exporting report | | 2 | System | Export all contents general details (name, date of arrival, categories, …) | | 3 | System | Display exported report | | | |
| Alternative flow of event | None | | |
| Post condition | None | | |

Use case: Check member status (eligibility)

|  |  |  |  |
| --- | --- | --- | --- |
| UC Code | UC015 | Use case name | Check member status |
| Actor | Librarian/Administration Office, library system | | |
| Precondition | Actor already logged in an authorized account | | |
| Main flow of event (success) | |  |  |  | | --- | --- | --- | | # | Actor | Action | | 1 | User | Select “Check member status” | | 2 | System | Display all registered members available in the database and their status | | 3 | User | Select criteria to sort data or choose a specific member | | 4 | System | Display the requested information | | | |
| Alternative flow of event | None | | |
| Post condition | None | | |