Use case description

**Use case description for find book**

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| **Use case Name** | Find book |
| **Scenario** | Finding a book to borrow |
| **Triggering event** | Finding a book is notified borrow a new book |
| **Brief description** | Borrower search for a book in the library inventory system to know the availability of book |
| **Actors** | borrower |
| **stakeholders** | Borrower, librarian, library |
| **Pre-condition** | Borrower should have library membership card or ID.  Details to login in the inventory system must be valid. |
| **Post-condition** | Borrower will search for book availability  Borrower will find the book |
| **Flow of Activities** | System   * System prompts login details of borrower * System checks authorization of the borrower * System search for the book * System will display the list of related books * System will check and display the availability of the book |
| **Exceptional condition** | If the borrower is doesn’t have membership card  Borrower details are not valid |

**Use case description for list books**

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| **Use case Name** | List books |
| **Scenario** | System displays list of books |
| **Triggering event** | System displays list of books to borrower |
| **Brief description** | Borrower get the list of related books while searching for a particular book in the inventory system |
| **Actors** | borrower |
| **stakeholders** | Borrower, librarian, library |
| **Pre-condition** | Borrower should have library membership card or ID.  Borrower will search for a book |
| **Post-condition** | The borrower will find list of related books it gives chance to borrower to find a particular book |
| **Flow of Activities** | System   * System displays welcome page of library * System will search for a book * System will search in the database of related books * System will displays the list of books |
| **Exceptional condition** | If the borrower is doesn’t have membership card  Borrower details are not valid |

**Use case description for add a book**

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| Use case Name | Add a book |
| Scenario | Add a new book in the library database |
| Triggering event | Add a new book in the library database by librarian |
| Brief description | Librarian will add a new book in the database of library as well as the library |
| Actors | Librarian |
| Related use cases | None |
| stakeholders | Borrower, librarian, library |
| Pre-condition | Librarian should have a new book details to enter into library database |
| Post-condition | System will add a new book details into database |
| Flow of Activities | System   * System prompts login details of librarian * System checks authorization of the librarian * System will add a new book details * System will save the book details in the alphabetical order |
| Exceptional condition | If librarian couldn’t find new book  Librarian details are not valid |

**Use case diagram for repair book**

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| **Use case Name** | Repair book |
| **Scenario** | Repair book in case of any damage occurs to book |
| **Triggering event** | Repair book in case of damage to book by librarian |
| **Brief description** | Librarian checks the book condition. If it needs any repair, it will repaired by them |
| **Actors** | Librarian |
| **Related use cases** | None |
| **stakeholders** | Borrower, librarian, library |
| **Pre-condition** | Librarian checks for book condition  Librarian will find at least one book for repair |
| **Post-condition** | Librarian will repair book |
| **Flow of Activities** | System   * System prompts login details of librarian * System check authorization of user * System displays the book list * System update the book list in the database |
| **Exceptional condition** | If librarian does not found at least one book |

**Use case diagram for dispose of book**

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| **Use case Name** | Dispose of book |
| **Scenario** | Dispose of book if the book has damaged completely |
| **Triggering event** | dispose the book if the book is not able to read by librarian |
| **Brief description** | Librarian finds the book condition is too worst then it will be disposed |
| **Actors** | Librarian |
| **Related use cases** | None |
| **stakeholders** | Borrower, librarian, library |
| **Pre-condition** | Librarian will check for book condition  Librarian should find at least one book condition is too worst |
| **Post-condition** | The librarian will dispose the book |
| **Flow of Activities** | System   * System prompts login details of librarian * System checks authorization of the librarian * System will update the book list |
| **Exceptional condition** | If librarian couldn’t find at least one book  Librarian details are not valid |