|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Use Case ID | UC-XX | | | |
| Use Case Name | Search a book | | | |
| Created By | Mr. Apiwat Hantrakool | | Last Update By | Mr. Apiwat Hantrakool |
| Date Created | 16-04-2017 | | Last Revision Date | 20-04-2017 |
| Actors | Librarian | | | |
| Description | The librarian can search for a book from the database using keyword and option. | | | |
| Trigger | The librarian clicks “Search book” button. | | | |
| Preconditions | - | | | |
| Use Case Input Specification | | | | |
| Input | type | Constraint | | Example |
| keyword | String | Length must not exceed 50 characters. | | Math for SE |
| option | String | Select one of this set [book id, book name, book status, category, price, author]. | | book status |
| Post conditions | If not the system return to home page. At least one book is displayed. If not the system return to home page. | | | |
| Normal Flows | User | | System | |
| 1. |  | | The system provides options to search, which are book id, book name, book status, category, price and author. | |
| 2. |  | | The system shall display the user interface for search the book consisting of 1 text field for keyword. | |
| 3. |  | | The system shall display a button labeled as “Search book.” | |
| 4. | The librarian input keyword to the text field. | |  | |
| 5. | The librarian selects the options. | |  | |
| 6. | The librarian clicks “Search book” button. | |  | |
| 7. |  | | The system shall validate the input. [A1: keyword is wrong in format] | |
| 8. |  | | The system shall retrieve the list of book using keyword and option in the book id, book name, book status, category, price and author into the database. [A2: Book is not matched] , [E1: Database cannot be connected] ,[E2: There is no book in the database]. | |
| 9. |  | | The system shall display the list of book at least one book that matches with the keyword. | |
| Alternative Flow | A1: keyword is wrong in format.   * The system shall display the fail message next to the keyword text fields “The format of keyword is not valid”. * Return to normal flows 4.   A2: Book is not matched   * The system shall display the message “There is no book matched with the keyword”. * Return to normal flows 4. | | | |
| Exception Flow | E1: Database cannot be connected.   * The system shall display the fail message “Fail to connect the database”. * Use case ends.   E2: There is no book in the database.   * The system shall display the message “There is no book in the database”. * Use case ends. | | | |
| Assumption | The Librarian must understand English. | | | |