|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Use Case ID | UC-XX | | | | |
| Use Case Name | Search a book | | | | |
| Created By | Mr. Apiwat Hantrakool | | Last Update By |  | |
| Date Created | 16-04-2017 | | Last Revision Date |  | |
| Actors | Librarian | | | | |
| Description | The librarian can search for a book from the database using keyword. | | | | |
| 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 | [book id, book name, book status, category, price, author] | | | book status |
| Post conditions | List of the book is displayed to the librarian. | | | | |
| 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 librarian select the options. | |  | | |
| 3. |  | | The system shall display the user interface for search the book consisting of 1 text fields for keyword. | | |
| 4. | The librarian input keyword to the text fields. | |  | | |
| 5. |  | | The system shall display a button labeled as “Search book.” | | |
| 6. | The librarian click “Search book” button. | |  | | |
| 7. |  | | The system shall validate the input when the librarian clicks “Search book” button by the length of the keyword. It must not exceed 50 characters. [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, if the librarian clicks the “Search book” button. [A2: Book is not matched] , [E2: There is no book in the database], [E1: Database cannot be connected] | | |
| 9. |  | | The system shall display the list of book when there is 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” if the keyword is in the wrong format. * Return to normal flows 2.   A2: Book is not matched   * The system shall display the message “There is no book matched with the keyword” if there is no book that matched with the keyword. * Return to normal flows 2. | | | | |
| Exception Flow | E1: Database cannot be connected.   * The system shall display the fail message “Fail to connect the database” if the database cannot be connected. * Use case ends.   E2: There is no book in the database.   * The system shall display the message “There is no book in the database” if there is no book in the database. * Use case ends. | | | | |
| Assumption | The Librarian must understand English. | | | | |