|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Use Case ID | UC-XX | | | |
| Use Case Name | Search a record. | | | |
| Created By | Mr. Pasakorn Kunchai | | Last Update By | Mr. Pasakorn Kunchai |
| Date Created | 17-04-2017 | | Last Revision Date | 23-04-2017 |
| Actors | Librarian | | | |
| Description | The librarian can search a record from the database using keyword and option. | | | |
| Trigger | The librarian clicks “Search a record” button. | | | |
| Preconditions | - | | | |
| Use Case Input Specification | | | | |
| Input | type | Constraint | | Example |
| keyword | String | Length must not exceed 50 characters. | | 1234 |
| option | String | Select one of this set [record number, book id, issue date, return date, rental price and fine]. | | book id |
| Post conditions | If the use case is successful, At least one record is displayed. If not the system return to home page. | | | |
| Normal Flows | User | | System | |
| 1. |  | | The system shall display the user interface for search the book consisting of 1 text field for keyword. | |
| 2. |  | | The system provides options to search, which are record number, member id, book id, issue date, return date, rental price and fine. | |
| 3. |  | | The system shall display a button labeled as “Search record.” | |
| 4. | The librarian input keyword to the text field. | |  | |
| 5. | The librarian select the options. | |  | |
| 6. | The librarian clicks “Search record” button. | |  | |
| 7. |  | | The system shall validate the input. [A1: keyword is wrong in format] | |
| 8. |  | | The system shall retrieve the list of record using keyword and option in the record number, member id, book id, issue date, return date, rental price and fine into the database. [A2: record is not matched with the keyword], [E1: There is no record in the database]. [E2: Database cannot be connected] | |
| 9. |  | | The system shall display the list of record when there is at least one record 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: record is not matched with the keyword.   * The system shall display the message “There is no record matched with the keyword” * Return to normal flows 4. | | | |
| Exception Flow | E1: There is no record in the database.   * The system shall display the message “There is no record in the database” * Use case ends.   E2: Database cannot be connected.   * The system shall display the fail message “Fail to connect the database”. * Use case ends. | | | |
| Assumption | The Librarian must understand English. | | | |