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| Use Case ID | UC-XX | | | | |
| Use Case Name | Search a record | | | | |
| Created By | Mr. Pasakorn Kunchai | | Last Update By |  | |
| Date Created | 17-04-2017 | | Last Revision Date |  | |
| Actors | Librarian | | | | |
| Description | The librarian can search a record from the database using keyword. | | | | |
| 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 | Data list [record number, book id, issue date, return date, rental price and fine] | | | book id |
| Post conditions | The keyword is searched from the database. | | | | |
| Normal Flows | User | | System | | |
| 1. |  | | The system shall display the user interface for search the book consisting of 1 text fields 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 select the options. | |  | | |
| 5. | The librarian input keyword to the text fields. | |  | | |
| 6. | The librarian click “Search record” button. | |  | | |
| 7. |  | | The system shall validate the input. [A1: Length in the text field is exceeded 50 characters] | | |
| 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: Length in the text field is exceeded 50 characters   * The system shall display the message “The characters in the text field must not exceed 50 characters”. * Return to normal flows 5.   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 5. | | | | |
| 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” if the database cannot be connected. * Use case ends. | | | | |
| Assumption | The Librarian must understand English. | | | | |