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| Use Case ID | UC-XX | | | |
| Use Case Name | Create a record. | | | |
| Created By | Mr. Pasakorn Kunchai | | Last Update By |  |
| Date Created | 17-04-2017 | | Last Revision Date | 17-04-2017 |
| Actors | Librarian | | | |
| Description | The librarian can create a record of a book into the database using member id, book id, issue date, return date, rental price and fine. | | | |
| Trigger | The librarian clicks “Create record” button. | | | |
| Preconditions | - | | | |
| Use Case Input Specification | | | | |
| Input | type | Constraint | | Example |
| member id  book id  issue date  return date  rental price  fine | String  String  Date  Date  Double  Double | Numeric input.  Numeric input.  Date format  Date format  Decimal number with 2 decimal digits  Decimal number with 2 decimal digits | | 214  1024  17-04-2017 10:30:00  18-04-2017 18:00:00  5.00  60.00 |
| Post conditions | This record is stored in the database. | | | |
| Normal Flows | User | | System | |
| 1. |  | | The system shall display the user interface for adding the book consisting of 6 text fields for member id, book id, issue date, return date, rental price and fine. | |
| 2. |  | | The system shall display a button labeled as “Create record”. | |
| 3. | The librarian input information to the text fields and clicks “Create record” button. | |  | |
| 4. |  | | The system shall validate the input. [A1: member id is in the wrong format], [A2: book id is in the wrong format], [A3: issue date is in the wrong format], [A4: return date is in the wrong format], [A5: rental price is in the wrong format] , [A6: fine is in the wrong format]. | |
| 5. |  | | The system shall auto generate the record number that count from 1. | |
| 6. |  | | The system shall add the record of the book including member id, book id, issue date, return date, price and fine into the database. [E1: Database cannot be connected] | |
| 7. |  | | The system shall display the success message “The record is stored in the database” if the input is insert into the database. | |
| Alternative Flow | A1: member id is in the wrong format.   * The system shall display the fail message next to the book name text field “The format of member id is not valid”. * Return to normal flows 3.   A2: book id is in the wrong format.   * The system shall display the fail message next to the book id text field “The format of book id is not valid”. * Return to normal flows 3.   A3: issue date is in the wrong format.   * The system shall display the fail message next to the issue date text field “The format of issue date is not valid”. * Return to normal flows 3.   A4: return date is in the wrong format.   * The system shall display the fail message next to the return date text field “The format of return date is not valid”. * Return to normal flows 3.   A5: rental price is in the wrong format.   * The system shall display the fail message next to the rental price text field “The format of rental price is not valid”. * Return to normal flows 3.   A6: fine is in the wrong format.   * The system shall display the fail message next to the fine text field “The format of fine is not valid”. * Return to normal flows 3. | | | |
| Exception Flow | E1: 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. | | | |