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| Use Case ID | UC-XX | | | |
| Use Case Name | Return a book | | | |
| Created By | Mr. Pasakorn Kunchai | | Last Update By | Mr. Pasakorn Kunchai |
| Date Created | 15-04-2017 | | Last Revision Date | 23-04-2017 |
| Actors | Librarian | | | |
| Description | The librarian can return a book using book id. | | | |
| Trigger | The librarian clicks “Return a book” button. | | | |
| Preconditions | - | | | |
| Use Case Input Specification | | | | |
| Input | type | Constraint | | Example |
| book id | String | Numeric input. | | 1028 |
| Post conditions | If the use case is successful,   * The Records in the database is updated. * Status of the book is updated to “available”   If not the system return to home page. | | | |
| Normal Flows | User | | System | |
| 1. |  | | The system shall display the user interface for issue the book consisting of 1 text fields for book id. | |
| 2. |  | | The system shall provide a button labeled as “Confirm return” for the librarian to confirm issue and do not need to want to issue more book. | |
| 3. |  | | The system shall provide a button labeled as “Return more” for the librarian to issue more book. | |
| 4. | The librarian input book id to the text fields. | |  | |
| 5. | The librarian clicks “Confirm return” button. [A1: The librarian clicks “return more”] | |  | |
| 6. |  | | The system shall validate the input. [A3: Not have this book id in the database], [A4: Text field is empty], [A5: status of the book is not valid] | |
| 7. |  | | The system shall search the book id in the records using book id for update the return date, rental price and fine in the records. [E1: Database cannot be connected] | |
| 8. |  | | The system shall update the book status to “available” into the database. | |
| 9. |  | | The system shall display success message “Return complete” when the records is stored in the database. | |
| Alternative Flow | A1: The librarian clicks “Issue more”.   * Go to normal flow 6. * Return to normal flow 1.   A2: book id is in the wrong format.   * The system shall display the fail message “The format of book id is not valid”. * Return to normal flows 4.   A3: Not have this book id in the database.   * The system shall display the fail message “Not have this book id in the database”. * Return to normal flows 4.   A4: Text field is empty.   * The system shall display the fail message “Text field must not be empty”. * Return to normal flows 4.   A5: status of the book is not valid.   * The system shall display the message “book status must be “borrowed”. * 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. | | | |
| Assumption | The Librarian must understand English. | | | |