|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Use Case ID | UC-16 | | | |
| Use Case Name | Update a record. | | | |
| Created By | Mr. Pasakorn Kunchai | | Last Update By | Mr. Pasakorn Kunchai |
| Date Created | 17-04-2017 | | Last Revision Date | 22-04-2017 |
| Actors | Librarian. | | | |
| Description | The librarian can update the records of a book into the database, which is member id, book id, issue date, return date, rental price and fine. | | | |
| Trigger | The librarian click “Update record” button next to the information of records. | | | |
| Preconditions | The librarian clicked view all records at home page. | | | |
| Use Case Input Specification | | | | |
| Input | type | Constraint | | Example |
| member id | String | Numeric input | | 214 |
| book id | String | Numeric input | | 1204 |
| issue date | Date | Date format | | 17-04-2017 10:30:00 |
| return date | Date | Date format | | 17-04-2017 10:30:00 |
| rental price | Double | Decimal number with 2 decimal digits | | 5.00 |
| fine | Double | Decimal number with 2 decimal digits | | 60.00 |
| Post conditions | If the use case is successful, the record is updated and stored in the database. If not the system return to home page. | | | |
| Normal Flows | User | | System | |
| 1. |  | | The system displays the user interface for updating the record consisting 6 text fields, which are member id, book id, issue date, return date, rental price and fine. | |
| 2. |  | | The “Update record” changes to “Confirm update” button. | |
| 3. | The librarian input information for updating. | |  | |
| 4. | The librarian clicks “Confirm update” button. | |  | |
| 5. |  | | 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]. | |
| 6. |  | | The system shall display a confirmation box with message “Are you confirm to update this record” and “Yes” button and “No” button. | |
| 7. | The librarian click “Yes” button. [E1: The librarian clicks “No” button] | |  | |
| 8. |  | | The system shall update the information of the record into the database. [E2: Database cannot be connected] | |
| 9. |  | | The system shall display the success message “The input is stored in the database” | |
| Alternative Flow | A1: member id is in the wrong format.   * The system shall display the fail message “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 “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 “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 “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 “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 “The format of fine is not valid”. * Return to normal flows 3. | | | |
| Exception Flow | E1: The librarian clicks “No” button.   * 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. | | | |