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| Use Case ID | UC-XX | | | |
| Use Case Name | Update details of book. | | | |
| Created By | Mr. Apiwat Hantrakool | | Last Update By | Mr. Apiwat Hantrakool |
| Date Created | 16-04-2017 | | Last Revision Date | 22-04-2017 |
| Actors | Librarian. | | | |
| Description | The library can update details of a book, which are book name, category, price, author and book status. | | | |
| Trigger | The librarian clicks “Update book” button. | | | |
| Preconditions | The librarian found the book. | | | |
| Use Case Input Specification | | | | |
| Input | type | Constraint | | Example |
| book name | String | String of length 50. | | Object oriented programming. |
| category | String | Data list (list of categories that was created) or null. | | Computer |
| price | Double | Decimal number with 2 decimal digits. | | 300.25 |
| author | String | String of length 50. | | Dr. Prompong |
| book status | String | Select one of this set [borrowed, available, disappeared, corrupted, removed]. | | borrowed |
| Post conditions | The details of book are updated to the database. | | | |
| Normal Flows | User | | System | |
| 1. |  | | The system displays the user interface for updating the book consisting 3 text fields, which are book name, price, and author. And consisting 2 data lists, which is category and book status. | |
| 2. | The librarian input information to every text fields. | |  | |
| 3. | The librarian clicks “Update book” button. | |  | |
| 4. |  | | The system shall display a button labeled as “Update book”. | |
| 5. |  | | The system shall validate the input. [A1: wrong book name format], [A2: wrong book price format], [A3: wrong author format] | |
| 6. |  | | The system shall display a confirmation box with message “Are you confirm to update this book” and “Yes” button and “No” button. | |
| 7. | The librarian click “Yes” button. [E1: clicks “No” button] | |  | |
| 8. |  | | The system shall update the information of the book 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: wrong book name format.   * The system shall display the fail message next to the book name text field “The format of book name is not valid”. * Return to normal flows 2.   A2: wrong book price format.   * The system shall display the fail message next to the price text field “The format of price is not valid”. * Return to normal flows 2.   A3: wrong author format.   * The system shall display the fail message next to the author text field “The format of author is not valid”. * Return to normal flows 2. | | | |
| Exception Flow | E1: 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. | | | |