|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Use Case ID | UC-XX | | | | |
| Use Case Name | Update details of book. | | | | |
| Created By | Mr. Apiwat Hantrakool | | Last Update By |  | |
| Date Created | 16-04-2017 | | Last Revision Date |  | |
| Actors | Librarian. | | | | |
| Description | The library can update details of a book, which are book name, category, price, author and book status. | | | | |
| Trigger | The librarian click “Update book” button. | | | | |
| Preconditions | The librarian has already 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 | Data list [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 system shall display a button labeled as “Update book”. | | |
| 4. | The librarian click “Update book” button. | |  | | |
| 5. |  | | The system shall validate the input when the librarian clicks “Update book” button. [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. | |  | | |
| 8. |  | | The system shall update the information of the book including book name, category, price, author and book status of the book into the database. | | |
| 9. |  | | The system shall display the success message “The input is stored in the database” if the input is updated the database. [E1: Database cannot be connected] | | |
| 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” if the book name is in the wrong format. * 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” if the price is in the wrong format. * 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” if the author is in the wrong format. * Return to normal flows 2. | | | | |
| Exception Flow | E1: 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. | | | | |