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| Use Case ID | UC-XX | | | |
| Use Case Name | Add a new book | | | |
| Created By | Mr. Pasakorn Kunchai | | Last Update By |  |
| Date Created | 15-04-2017 | | Last Revision Date | 16-04-2017 |
| Actors | Librarian | | | |
| Description | The librarian can add a new book into the system using book name, book category, price and author. | | | |
| Trigger | The librarian clicks “Add a new book” button. | | | |
| Preconditions | - | | | |
| Use Case Input Specification | | | | |
| Input | type | Constraint | | Example |
| book id  book name  category  price  book status | String  String  String  Double  String | Numeric input.  Length must not exceed 50 characters.  Must have in the database or null.  Decimal number with 2 decimal digits.  [borrowed, available, disappeared, corrupted, removed]. | | 214  Database  Computer  299.00  available |
| Post conditions | The new book is stored in the database. | | | |
| Normal Flows | User | | System | |
| 1. |  | | The system shall display the user interface for adding the book consisting of 3 text fields for book name, price and author. And 1 data list for book category. | |
| 2. |  | | The system shall display a button labeled as “Add book”. | |
| 3. | The librarian input information to the text fields and clicks “Add book” button. | |  | |
| 4. |  | | The system shall validate the input. [A1: book name is in the wrong format], [A2: price is in the wrong format], [A3: author is in the wrong format]. | |
| 5. |  | | The system shall auto generate the book id and book status = “available”. | |
| 6. |  | | The system shall add the information of the book including book id, book name, book status, category, price and author into the database. [E1: Database cannot be connected] | |
| 7. |  | | The system shall display the success message “The book is stored in the database” if the input is insert into the database. | |
| Alternative Flow | A1: book name is in the wrong 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 3.   A2: price is in the wrong 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 3.   A3: author is in the wrong 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 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. | | | |