|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Use Case ID | UC-XX | | | |
| Use Case Name | Add a new book | | | |
| Created By | Mr. Pasakorn Kunchai | | Last Update By | Mr. Apiwat Hantrakool |
| Date Created | 15-04-2017 | | Last Revision Date | 22-04-2017 |
| 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 at home page. | | | |
| Preconditions | - | | | |
| Use Case Input Specification | | | | |
| Input | type | Constraint | | Example |
| book name | String | Length must not exceed 50 characters. | | Database |
| category | String | Must have in the database or null. | | Computer |
| price | double | Decimal number with 2 decimal digits. | | 299.00 |
| author | String | Length must not exceed 50 characters. | | Dr. Natee |
| Post conditions | If the use case is successful, the new book is stored in the database. If not the system return to home page | | | |
| 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. | |  | |
| 4. | The librarian clicks “Add book” button. | |  | |
| 5. |  | | 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]. | |
| 6. |  | | The system shall auto generate the book id and book status by the following criteria.   * + book id => count form 1 (numeric input).   + book status => available. | |
| 7. |  | | 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] | |
| 8. |  | | The system shall display the success message “The book is stored in 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. | | | |