**URS XX** The librarian can add a new book into the system using book id, book name, book category, price and author.

* 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
* The system shall display a button labeled as “Add book”.
* The system shall validate the input when the librarian clicks “Add book” button by the following criteria.
  + book name => string of length 50.
  + category => data list (list of category that was created) or null.
  + price => decimal number with 2 decimal digits.
  + author => string of length 50.
* The system shall auto generate the book id and book status by the following criteria.
  + book id => count form 1 (integer number).
  + book status => not borrowed. \*Data list [borrowed, not borrowed, disappeared, corrupted, removed]
* The system shall add the information of the book including book id, book name, book category, price and author into the database if the input passes the validation.
* The system shall display the success message “The book is stored in the database” if the input is insert into the database.
* 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.
* 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.
* 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.
* The system shall display the fail message “Fail to connect the database” if the database cannot be connected.

**URS XX** The librarian can search for a book from the database using keyword.

* The system shall display the user interface for search the book consisting of 1 text fields for keyword.
* The system shall display a button labeled as “Search book.”
* The system shall validate the input when the librarian clicks “Search book” button by the length of the keyword. It must not exceed 50 characters.
* The system shall retrieve the list of book using keyword in the book id, book name and author of the book into the database, if the librarian clicks the “Search book” button.
* The system shall display the list of book when there is at least one book that matches with the keyword.
* The system shall display the message “There is no book matched with the keyword” if there is no book that matched with the keyword.
* The system shall display the message “There is no book in the database” if there is no book in the database.
* The system shall display the fail message “Fail to connect the database” if the database cannot be connected.

**URS XX** The library can view details of a book.

* The system shall provide a button labeled as “View details” for the librarian to view the details of a book.
* The system shall be able to get the details of a book from the database.
* The system shall provide an interface, which displays book id, book name, category, price, author and book status.

**URS XX** The library can update details of a book, which are book name, category, price, author and book status.

* 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.
* The system shall display a button labeled as “Update book”.
* The system shall validate the input when the librarian clicks “Update book” button by the following criteria.
  + book name => string of length 50.
  + category => data list (list of categories that was created) or null.
  + price => decimal number with 2 decimal digits.
  + author => string of length 50.
  + book status => Data list [borrowed, not borrowed, disappeared, corrupted, removed].
* The system shall display a confirmation box with message “Are you confirm to update this book” and “Yes” button and “No” button.
* The system shall update the information of the book including book name, price, author and book status of the book into the database if the librarian clicks the “Yes” button.
* The system shall display the success message “The input is stored in the database” if the input is updated the database.
* 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.
* 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.
* 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.
* The system shall display the fail message “Fail to connect the database” if the database cannot be connected.

**URS XX** The librarian can remove a book from the shop using book id.

* The system shall display a button labeled as “Delete book” next to the book name.
* The system shall display a confirmation box with message “Are you confirm to deleted this book” and “Yes” button and “No” button when the librarian clicks the “Delete book” button.
* The system shall update the book status to “removed” when the librarian clicks “Yes.”

**URS XX** The librarian can create a new category into the system using category id, category name and category status.

* The system shall display the user interface for adding the category consisting of 1 text fields for category name.
* The system shall display a button labeled as “Create category.”
* The system shall validate the input when the librarian clicks “Create category” button by the following criteria.
  + category name => string of length 20.
* The system shall auto generate the category id by the following criteria.
  + category id => count from 1 (integer number).
  + category status => active. \*Data list [active, not active].
* The system shall add the information of the category including category id and category name into the database if the input passes the validation.
* The system shall display the success message “The category is stored in the database” if the input is inserted into the database.
* The system shall display the fail message next to the book name text field “The format of category name is not valid” if the book name is in the wrong format.
* The system shall display the fail message “Fail to connect the database” if the database cannot be connected.

**URS XX** The librarian can view categories in the system.

* The system shall provide a button labeled as “View categories” for the librarian to view the categories in the system.
* The system shall be able to get the list of categories from the database.
* The system shall provide an interface, which displays category id, category name and category status.

**URS XX** The librarian can update categories in the system, which are category name.

* The system displays the user interface for updating the book consisting 1 text fields, which are category name. And 1 data list, which is category status.
* The system shall display a button labeled as “Update category”.
* The system shall validate the input when the librarian clicks “Create category” button by the following criteria.
  + category name => string of length 20.
  + category status => active or not active.
* The system shall display a confirmation box with message “Are you confirm to update this category” and “Yes” button and “No” button.
* The system shall update the information of the book including category name into the database if the librarian clicks the “Yes” button.
* The system shall display the success message “The input is stored in the database” if the input is updated the database.
* The system shall display the fail message next to the category name text field “The format of category name is not valid” if the category name is in the wrong format.
* The system shall display the fail message “Fail to connect the database” if the database cannot be connected.

**URS XX** The librarian can remove category using category id.

* The system shall display a button labeled as “Delete category” next to the category name.
* The system shall display a confirmation box with message “Are you confirm to deleted this category” and “Yes” button and “No” button when the librarian clicks the “Delete category” button.
* The system shall update the category status to “not active” when the librarian clicks “Yes.”