**Capabilities Covered:**

* Implement MVC framework using .Net MVC 5

Book Store Application

# Book Store Application

Design and implement a system that manages and organizes your books and article collections. It enables users to store into and search for his/her favourite book from the store.

* Home page contains the promo video and carousel of latest books added into the store
* The home page contains the following links
  + Add a book
  + Create and Search favourite books

# System Features

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| **Use Case #1** | **Add a Book** |
| Trigger | User clicks on “Add a book” link on the home page |
| Pre-Conditions | - |
| Post-Conditions | The complete information about the book is stored in the application database |
| UI Screen Details | The input form contains the following fields   |  |  |  | | --- | --- | --- | | Book Title / Name | Text value |  | | Author (s) | Text Value |  | | Location | Text value | http url to the book(online link) | | Category | Text Value |  | | Pages | Number | In seconds | | Tags | Text values |  | |
| Main Flow | The user provides the required details in the form and Clicks “Save” button. On successfully saving the book details, user is forwarded to the home page along with the message “Book details have been saved successfully” |
| Data Validations | * Input data has to be validated for numeric and date data fields. * Following fields are mandatory – Name and Location |
| Business Rules | None |
| Exception Flows | * In case of any failure in Data Validation or Business Rules, user should be brought back to the screen along with the error message “The value provided for the field …. Is incorrect or incomplete” |
| Alternate Flows | * When the user selects “Cancel” button, user should be taken back to the home page |

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| **Use Case #2** | **Create and Search Favourite Books** |
| Trigger | User clicks on “Create and Search Favourite Books ” link on the home page |
| Pre-Conditions | Book details are in the database |
| Post-Conditions | Details of book playlists are stored in database |
| UI Screen Details | * ‘**Book list**’ table needs to be displayed. This displays the list of **all** the books available in the database. Each book display will have a checkbox beside it. * ‘**Add to Favourite’** form needs to be displayed on the bottom. This form will have a text field for entering the List Name and the books would be selected from the ‘Book list’ table.   + The form will have Save and Cancel button. Save button, on click, will validate user entry and store details of administered vaccination in database   + The cancel button, on click, will reset this form |
| Main Flow | When the page is loaded the ‘Book List’ form and the ‘Add to Favourite’ table are displayed one below the other.  The ‘Favourite List’ table is initially loaded with details in Database. Once the data is entered through the ‘Add to Favourite’ form and stored successfully, report with Favourite List also could be displayed |
| Data Validations | * Input data has to be validated for numeric and date data fields. * Following fields are mandatory – Book Title and url to the book |
| Business Rules | * Name of the Favourite list should be unique in the system |
| Exception Flows | In case of any failure in Data Validation or Business Rules, user should be brought back to the same screen along with a relevant error message |
| Alternate Flows | * When the user selects “Cancel” button, the form “Add to Favourite” should be reset * When the user selects “Close” button, user should be taken back to the home page |