## BOOK LIBRARY API DOCUMENTATION

A simple web API application used to keep records of books. This application takes care of various operations i.e Creation of books in the database, Updating books, Getting the list of books (as a single book using the book id) and deleting books. It also has the books category which is used to classify the types books available in the BooksLibrary and also allows moving books from one category to the other Finally, this application also allows you save books to your favorite list as well as get the list of favorite books.

This interface is implemented as a restful web service. The web service consists of various endpoint such as:

- Get-List-Of-Books
- Get-Single-Book
- Create-Book
- Update-Book
- Delete-Book
- AddBookCategory
- GetAllBookCategories
- GetSingleBookCategory
- Move-Book-To-Category
- DeleteBook
- Update-Book-Category
- FavoriteBook
- Add-Book-To-Favorite

**Get-List-Of-Books**: This endpoint is used to get the list of Books available in the database.

Request

https://localhost:44323/api/Book/Get-List-Of-Books

Response

```
[
  {
    "id": 0,
    "title": "string",
    "author": "string",
    "description": "string",
    "bookCategoryId": 0
  }
]
```

**Get-Single-Book:** This endpoint is used to get a single book used the book Id.

Request

https://localhost:44323/api/Book/Get-Single-Book/{id}

Response

```json
{
  "id": 0,
  "title": "string",
  "author": "string",
  "description": "string",
  "bookCategoryId": 0
}
```

**Create-Book**: This endpoint is used to create books that are added to the Database.

Request

https://localhost:44323/api/Book/Create-Book

```json
{
  "title": "string",
  "author": "string",
  "description": "string",
  "bookCategoryId": 0
}
```

Response

```json
{
  "id": 0,
  "title": "string",
  "author": "string",
  "description": "string",
  "bookCategoryId": 0
}
```

**Update-Book:** This endpoint is used to edit the details of an already existing book.

Request

https://localhost:44323/api/Book/Update/{id}

```json
{
  "title": "string",
  "author": "string",
  "description": "string"
}
```
Response

```json
{
  "status": true,
  "message": "successful"
}
```

**Delete-Book:** This endpoint is used to delete already existing books from the database using the books Id.

Request

https://localhost:44323/api/Book/Delete-Book/{id}

Response

```
{
  "status": true,
  "message": "successful"
}
```

**AddBookCategory:** This endpoint is used to create categories for the various books available in the database.

Request

https://localhost:44323/api/BookCategory/AddBookCategory

```
{
  "categoryName": "string"
}
```

Response

```
{
  "status": true,
  "message": "successful"
}
```

**GetAllBookCategories**: This endpoint is used to get the list of all available categories.

Request

https://localhost:44323/api/BookCategory/GetAllBookCategories

Response

```
[
  {
    "id": 0,
    "categoryName": "string"
  }
]
```

**GetSingleBookCategory :** This endpoint is used to get a single book category using bookCategoryId.

Request

https://localhost:44323/api/BookCategory/GetSingleBookCategory/{bookCategoryId}

Response

```
{
  "id": 0,
  "categoryName": "string"
}
```

**Move-Book-To-Category:** This endpoint is used to move books from one category to another incase the category needs to be deleted.

Request

https://localhost:44323/api/BookCategory/move-book-to-category

```
{
  "currentBookCateogryId": 0,
  "newBookCategoryId": 0
}
```
Response

```
[
  {
    "id": 0,
    "categoryName": "string"
  }
]
```

**DeleteBookCategory:** This endpoint is used to delete book category by CategoryId.

Request

https://localhost:44323/api/BookCategory/{id}

Response

```
[
  {
    "id": 0,
    "categoryName": "string"
  }
]
```

**Update-Book-Category:** This endpoint is used to edit the details of an existing category.

Request

https://localhost:44323/api/BookCategory/update-book-category

```
{
  "bookId": 0,
  "newCategoryId": 0
}
```

Response

```
[
  {
    "id": 0,
    "categoryName": "string"
  }
]
```

**FavoriteBook:** This endpoint give the list of all favorite books

Request

https://localhost:44323/api/FavoriteBook

Response

```
{
  "status": true,
  "message": "string",
  "data": [
    {
      "bookTitle": "string",
      "categoryName": "string"
    }
  ]
}
```

**Add-Book-To-Favorite:** This endpoint is used to add books to the favorite list of books using the bookId.

Request

https://localhost:44323/api/FavoriteBook/add-book-to-favorite

```
{
  "bookId": 0
}
```
Response

```
{
  "status": true,
  "message": "string"
}
```