

Tools & Technologies

- IDE: Visual Studio 2022
- Language: C#
- Platform: .NET Core MVC (6.0)
- Software Architecture: UI & API
- Database: MSSQL

Folder Structure

- Controllers
 - HomeController (for main view page)
 - LibraryApiController (for api views)
- Models
 - Categories
 - SubCategories
 - Authors
 - BookDetails
- Views
 - /Home/Main.cshtml (used for main page view)
- Data
 - Library Context (containing the context of database as for entity framework)
- Migrations
 - Contains initial migrations
- Utils
 - DB Config (connection string with database name is defined as for to use “**Store Procedure**”)

Configuration

- First of all define the “**LibraryConnectionString**” located in appsetting.json
- Do run the migrations using “update-database”
- Schema for demo data is given in file name “**LibraryData**” in the root path of this doc (so you can insert the demo data and test the application).

Work Flow

- Default view page will be open with two select option (one for the category and the other one for the subcategory) & a button and grid.
- Select Category & then the subcategories list will be updated according to the selected category.
- Select the subcategory and click the “View Book Detail” button.
- The result according to your selection will be displayed in grid.

Api Endpoints

- /api/Library/BooksDetail
- /api/Library/BooksDetail/{id}
- /api/Library/BooksDetail/SubCategory/{id}
- /api/Library/Categories
- /api/Library/SubCategories
- /api/Library/Author

NOTE: Stored Procedure is used to get SubCategories else entire framework is used.