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Library Management System

Technical Details

IDE

Visual Studio 2013 Professional

Design

Responsive Website.

Technologies

C# ASP.NET MVC5, WebAPI2, JQuery, JQTables, Ajax, HTML, CSS, log4Net (logging), IOC Container (Microsoft Unity)

Logging

Log4Net Library used for Error Logging, Current Path of logging file is the Web Folder of project.

Design Patterns

Inversion of Control (IOC) / Dependency Injection (DI) Pattern, Repository Pattern. Microsoft Unity Container is used as IOC container.

Pagination and Tables

JqTables is used to display data with Server Side Pagination. The Filters on table are dynamic and run on server side to bring back the data.

Memory Management

Data is cached in Memory. Dummy data is already in place, however you can also add data according to the requirements.

Unit Testing

Unit tests are run to test the functionality and are part of the project.

Features

Books

1. Add /Search (Author/Title) / issue the Books
2. Find the "In Stock" books and quantity.

Borrower

1. Add / Search (First/Last Name) Borrowers.

Borrowing history

1. View history of all issued books, with Due and over due dates.
2. De Assign the book if borrower returns it back.

Note: The Due time to return the book is one week from Date issued.