**Library Management System**

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**Project Overview**

The **Library Management System** is designed to streamline and automate the management of library operations, ensuring efficient handling of books and student records.

**Key Features:**

1. **Book Master Module:**
   * Allows administrators to manage book entries and details efficiently.
2. **Student Master Module:**
   * Facilitates student registration and management, including personal and academic details.
3. **Book Issue Module:**
   * Simplifies the process of issuing books to students, ensuring accurate tracking and return management.

**Technology Stack:**

* **Architecture:** Built using the Model-View-Controller (MVC) design pattern for structured and scalable development.
* **Programming Language:** Developed in **C#**.
* **Frameworks and Tools:**
  + **Entity Framework** for seamless interaction with the database.
  + **AJAX** for enhanced user interactivity and smooth user experience.
  + **LINQ** for efficient data manipulation and querying.
  + **Stored Procedures** for optimized data saving and retrieval.
  + **DataTables** for dynamic and responsive table management.

**Benefits:**

* Ensures seamless library operations with reduced manual effort.
* Provides a user-friendly interface for managing books and student records.
* Supports scalable and maintainable code structure, making it easy to expand functionalities in the future.