**My Digital Library Information System**

**Project Overview**

My Digital Library Information System is a console-based application that consist of various features as follows:

* Perform CURD Operations
* Store Books Based on Categories
* Search Book Based on Category, Author Name and Book Title
* Smooth Architecture
* Save Records with Unique ID
* Import data from binary file and write to CSV
* Export CSV data to Binary

**Getting Started**

My Digital Library is a smooth application built with easy architecture. The whole application is divided into four main classes:

1. **BookModel:** It contains books schema and schema related member functions.
2. **Utility:** It holds utility functions i.e., reading-writing to binary & CSV files, frontend menus etc.
3. **BACKEND:** This class is designed to perform the CURD operations and handle the application logic i.e., search methods etc.
4. **FRONTEND:**  It is responsible for displaying the contents to the console.

Beside these four classes, the system also includes various helper functions as follows:

1. **handleFristTimeRun():** It is designed to run only if we have no record available in BookModel.bin file or when file doesn’t exist because complete system is based on this single file BookModel.bin and all interactions occur only if we have some records in it, so it’s crucial to have some records initially to perform some interactive tasks.
2. **RunApp():** function is entry point of system which initialize the whole application, it uses FRONTEND object and call f.homepage() method and then control goes with going.

The source code is well structured and well commented, to get started with it, first you need to give some records that will store into binary file and then you can start interaction with the application. There is proper validation for everything, on every error program will throw an exception, some time it may stop the execution of the program and sometime exception just inform you about the error.