

Assignment 5

Create a project for library management systems with the help of SQL and ADO.NET.

Task 1- Write an endpoint to add a new book to the repository.

Task 2- Write an endpoint to add a new user to the users List.

Task 3- Write an API that fetches a detail of a book. (Fetch book by name). This should also indicate whether this book is available or already issued by a user.

Task 4- Write an API that fetches a detail of a user. This should also bring the books issued by that user.

Task 5- Another endpoint is required to update the book record. (Book can be identified by its id)

Task 6- An endpoint is required to update the user record.

Task 7- If a user issues a new book, we need to add it to the database. Write an API endpoint for it (The book that is already issued should not be issued again until it is returned).

Task 8- Finally write endpoint to remove a book from the repository by its name (if the book is issued by any user then delete all the book record from the database too).

Task 9- Write an API that remove the user from the system (user must have returned all the books back to the library otherwise the user will not get deleted).

Task 10- Write an API for the returning of issued book by the user.

Task 11- Now you also have to add an API endpoint to calculate the fine imposed on the user if the date of book issued is more than 15 days (1 rupee per day). The fine will only be calculated for working days (Saturday, Sunday or any other public holiday should not be included).

Public holidays can be hardcoded

Please submit DDL, DML, Stored Procedure Creation Script, and the project code file in the submission.