

MVVM - Project - Library Management System

Note: Design appropriate table structure
Also insert some records with appropriate initial values in the corresponding tables

Program to implement - Issues

- initially a window gets open with one side datagrid displaying all the books which are Issued.
- Another Part of the window will display

Book Issue Window

Member Code

Member Name Member Type

No. of books allowed No. of books Issued

Book Code

book Name Author

Issue Date Due date of return

Validations:-

- Member code should be valid.
Display member details
else display proper error message.
- Members are of two types: Student & Faculty
- Student can have up to three books issued to them at any point of time
- Faculty can have up to ~~25~~ twenty five (25) books issued to them at any point of time

- book code must be valid.

Display the title and author of the book

- book must be present in the library. If it is already issued out, you cannot issue it again
- Some books are not issuable.

If the book is not an issuable book, you cannot issue it.

- Date of issue will default to today, but can be changed to a past date
- Display the due date of return:
for student - due date is issue date + 10 days
for faculty due date is issue date + 90 days
- Handle all validation with proper error messages.

Program to implement: Book Return

Book Return window

Issue code <input type="text"/>	Book code <input type="text"/>
book name: <input type="text"/>	
Member code: <input type="text"/>	Member name <input type="text"/>
Issue Date: <input type="text"/>	Due Date of Return <input type="text"/>
	Actual return Date <input type="text"/>
<input type="button" value="Submit"/>	

- From user either take issue code or book code and display other data. Enter actual date of return
- on click of submit - complete book return formalities.
change book status to available
decrease no of book issued count for member

Program to implement: Main window

On load display VJ Page with two buttons

Book Issue

Book Return

Book Return Window

Issue Code

Book Code

book name:

Member Code: Member name

Issue Date: Due Date of Return Actual return Date

- From user either take Issue code or book code and display other data. Enter actual date of return
- On click of Submit - complete book return formalities. Change book status to available decrease no of book issued count for member

Program to implement - : Main Window

On load display UI Page with two buttons

Book Issue

Book Return