
System Requirements Specification Index

For

E-Library Console Application

Version 4.0

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E-Library Console APPLICATION

System Requirements Specification

1. BUSINESS-REQUIREMENT:

1.1 PROBLEM STATEMENT:

E-Library Console Application is pure C# application with C# collection, where it allows managing the books and issuing the books from the library.

1.2 FOLLOWING IS THE REQUIREMENT SPECIFICATION:

	E-Library Management Application
	Implement the following Functionalities using a menu driven program.
1	Take console input of number of books: (n)
2	Take input of details of each book and store it in a collection.
3	Take input of details of books to be issued (only 1 book at a time)
4	Take input of details of book to issue and store in a collection
5	Show the books stock remained after issuing books

2. RESOURCES AVAILABLE:

2.1 PACKAGE: E-LIBRARY

Names	Resource	Remarks	Status
Package Structure/Project			
	Book.cs	Book class contains all the properties of books, You can create any number of private methods in the class	Already Implemented
	BookIssue.cs	BookIssue class contains all the properties of bookIssue.cs,	Already Implemented

	BookInventory.cs	BookInventory class contains all the methods which are used to write the business logic for the application	Partially Implemented
	Program.cs	Program.cs is an important class that is the entry point of application.	Partially Implemented

2.2 PACKAGE: E-LIBRARY.EXCEPTION

Names	Resource	Remarks	Status
Package Structure/Project			
Class/Interface	ISBNAlreadyExistsException	Custom Exception to be thrown when trying to add a book for which ISBN is already exists	Already Implemented
Class/Interface	ISBNDoesNotExistsException (Class)	Custom Exception to be thrown when trying to issue a book for which the ISBN does not exists	Already Implemented
Class/Interface	BookAlreadyIssuedException (Class)	Custom Exception to be thrown when trying to issue a book which is already issued.	Already Implemented

2.2 PACKAGE: E-LIBRARY.TESTS

Resources

Note: - Under the E-Library.Tests contain all test cases for code evaluation, please don't try to alter and edit it.

3. EXECUTION STEPS TO FOLLOW

1. All actions like build, compile, running application, running test cases will be through Command Terminal.
2. To open the command terminal the test takers need to go to the Application menu (Three horizontal lines at left top) Terminal → New Terminal.
3. On command prompt, cd into your project folder (**cd <Your-Project-folder>**).
4. To build your project use command:
(e-library / **dotnet build**)
5. To launch your application, Run the following command to run the application:
(e-library / **dotnet run**)
6. This editor Auto Saves the code.
7. To run the test cases in CMD, Run the following command to test the application:
(e-library / **dotnet test --logger "console;verbosity=detailed"**)
(You can run this command multiple times to identify the test case status,
and refactor code to make maximum test cases passed before final submission)
8. If you want to exit(logout) and continue the coding later anytime (using Save & Exit option on Assessment Landing Page) then you need to use CTRL+Shift+B - command compulsorily on code IDE. This will push or save the updated contents in the internal git/repository. Else the code will not be available in the next login.
9. These are time bound assessments the timer would stop if you logout and while logging in back using the same credentials the timer would resume from the same time it was stopped from the previous logout.
10. You need to use CTRL+Shift+B - command compulsorily on code IDE, before final submission as well. This will push or save the updated contents in the internal git/repository, and will be used to evaluate the code quality.