Library Management System Test Cases

Test Case ID	Test Case Name	Description	Preconditions	Test Steps	Test Data	Expected Result	Actual Result	Status
TC1	Get Books by Valid Author	Verify method returns books for a valid author	Repository contains books by "Kent Beck"	1. Call getBooks ByAuthor ("Kent Beck")	"Kent Beck"	List containing "Test Driven Developme nt"		
TC2	Get Books by Unknown Author	Verify method returns an empty list for an unknown author	Repository does not contain books by "Unknown Author"	1. Call getBooks ByAuthor ("Unknow n Author")	"Unkno wn Author"	An empty list		
TC3	Get Books by Null Author	Verify method returns an empty list when the author is null	Repository contains some books	1. Call getBooks ByAuthor (null)	null	An empty list		
TC4	Get Books by Empty Author	Verify method returns an empty list when the author is an empty string	Repository contains some books	1. Call getBooks ByAuthor ("")	""	An empty list		
TC5	Get Books by Case- Sensitive Author	Verify method is case- sensitive when searching by author	Repository contains books by "Kent Beck"	1. Call getBooks ByAuthor ("kent beck")	"kent beck"	An empty list		
TC6	Get Books by Valid Title	Verify method returns books for a valid title	Repository contains the book "Clean Code"	1. Call getBooks ByTitle("Clean Code")	"Clean Code"	List containing "Clean Code"		
TC7	Get Books by Unknown Title	Verify method returns an empty list for an unknown title	Repository does not contain books with the title "Unknown Title"	1. Call getBooks ByTitle("Unknown Title")	"Unkno wn Title"	An empty list		
TC8	Get Books by Null Title	Verify method returns an	Repository contains some books	1. Call getBooks ByTitle(null	An empty list		

		empty list when the title is null		null)			
TC9	Get Books by Empty Title	Verify method returns an empty list when the title is an empty string	Repository contains some books	1. Call getBooks ByTitle("")	mm	An empty list	
TC10	Get Books by Case- Sensitive Title	Verify method is case- sensitive when searching by title	Repository contains the book "Clean Code"	1. Call getBooks ByTitle("clean code")	"clean code"	An empty list	
TC11	Get Books by Valid Author and Title	Verify method returns books for a valid author and title	Repository contains the book "Clean Code" by "Robert C. Martin"	1. Call getBooks ByAuthor AndTitle ("Robert C. Martin", "Clean Code")	"Robert C. Martin", "Clean Code"	List containing "Clean Code"	
TC12	Get Books by Unknown Author and Title	Verify method returns an empty list for unknown author and title	Repository does not contain books by "Unknown Author" with the title "Unknown Title"	1. Call getBooks ByAuthor AndTitle ("Unknow n Author", "Unknown Title")	"Unkno wn Author", "Unkno wn Title"	An empty list	
TC13	Get Books by Valid Author and Invalid Title	Verify method returns an empty list for a valid author with an invalid title	Repository contains the book "Clean Code" by "Robert C. Martin"	1. Call getBooks ByAuthor AndTitle ("Robert C. Martin", "Unknown Title")	"Robert C. Martin", "Unkno wn Title"	An empty list	
TC14	Get Books by Invalid Author and Valid Title	Verify method returns an empty list for an invalid author with a valid title	Repository contains the book "Clean Code"	1. Call getBooks ByAuthor AndTitle ("Unknow n Author", "Clean Code")	"Unkno wn Author", "Clean Code"	An empty list	
TC15	Get Books	Verify	Repository	1. Call	null,	An empty	

	by Null Author and Title	method returns an empty list when both author and title are null	contains some books	getBooks ByAuthor AndTitle (null, null)	null	list	
TC16	Get Books by Valid Author and Null Title	Verify method returns an empty list for a valid author with a null title	Repository contains the book "Clean Code" by "Robert C. Martin"	1. Call getBooks ByAuthor AndTitle ("Robert C. Martin", null)	"Robert C. Martin", null	An empty list	
TC17	Get Books by Null Author and Valid Title	Verify method returns an empty list for a null author with a valid title	Repository contains the book "Clean Code"	1. Call getBooks ByAuthor AndTitle (null, "Clean Code")	null, "Clean Code"	An empty list	