



**UE22CS341A - Software Engineering**  
**Test Plan Documentation**

*EXAM CENTRE MANAGEMENT SYSTEM*

Team #: 25

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Test Case ID	Name of Module	Test Case Description	Pre-conditions	Test Steps	Test Data	Expected Results	Actual Results	Test Result
UT-01	Member valid login	Login through member credentials	Login possible only if registered account. Access to browser.	Click on member login. Enter username and password , click on submit	Username: john_doe  Pwd: member123	Login to member portal	Login to member portal	Pass
UT-02	Member invalid login	Login through invalid member credentials	Login possible only if registered account. Access to browser.	Click on member login. Enter username and password , click on submit	Username: abc_x  Pwd: member124	Display error message	Display error message, “Invalid login”	Pass
UT-03	Admin valid login	Login through admin credentials	Login possible only if registered account. Access to browser.	Click on admin login. Enter username and password , click on submit	Username: admin  Pwd: admin123	Login to admin portal	Login to admin portal	Pass

UT-04	Admin invalid login	Login through invalid admin credentials	Login possible only if registered account. Access to browser.	Click on admin login. Enter username and password , click on submit	Username: admin3 Pwd: admin1234	Display error message	Display error message, "Invalid login"	Pass
UT-05	Add Book	Admin can successfully add a new book	Login through valid admin credentials	Add book with valid ISBN, title, author, and category. Successfully stored in the database.	ISBN: 1234567890123 Title: organic chemistry Author: xyz Category: Chemistry	Book added and stored in the database	Book added and stored in the database	Pass
UT-06	Add Book with incorrect ISBN format	Book cannot be added due to incorrect format.	Login through valid admin credentials	Add book with invalid ISBN, not stored in the database.	ISBN: 123456789012 Title: organic chemistry Author: xyz Category: Chemistry	Error message: "Incorrect ISBN format"	Error message: "Incorrect ISBN format"	Pass
UT-07	Borrow Book	Member can successfully borrow a book	Login through valid member credentials	Click on borrow book and select desired book	'learn chemistry fundamentals'	Book borrowed successfully	Book borrowed successfully	Pass
UT-08	Borrow book that does not exist	Member cannot borrow a book that does not exist in the database.	Login through valid member credentials	Click on borrow book and select desired book	'Learn Rust programming'	Display error message as book does not exist in inventory	Display error message as book does not exist in inventory	Pass
UT-09	Return book	Member can return borrowed book	Login through valid member credentials	Click on return book and return borrowed book	'Learn chemistry fundamentals'	Book returned successfully	Book returned successfully	Pass

UT-10	Return book not borrowed	Member cannot return book not borrowed	Login through valid member credentials	Click on return book and return borrowed book	'Engineering Mechanics'	Display 'No book to return'	Display 'No book to return'	Pass
UT-11	Delete book	Verify that an admin can successfully delete a book	Login through valid admin credentials book	Select the desired book and click on delete book	'Mechanical Engineering principles'	Book deleted successfully	Book deleted successfully	Pass
UT-12	Deleting a book that has been borrowed	Verify that an admin cannot delete a book that has been borrowed currently	Login through valid admin credentials and click on delete book	Select the desired book and click on the delete book option.	'Learn Chemistry Fundamentals'	Display error message "borrowed book cannot be deleted"	Display error message "borrowed book cannot be deleted"	Pass
UT-13	Edit book details	Verify that an admin can edit details of a book stored in the inventory.	Admin must be logged in with valid credentials.	Navigate to the "Edit Book" section. Select the book to be edited and modify its details. Save the changes	ISBN: 1234567890123  New Title: Advanced Chemistry	The book details are updated successfully and reflect the changes.	The book details are updated successfully and reflect the changes.	Pass
UT-14	Attempt to edit non existing book	Verify that editing a book that does not exist in the database shows an error.	Admin must be logged in with valid credentials.	Navigate to the "Edit Book" section. Enter a non-existent ISBN.	ISBN: 1004008009011	Display error message: "Book not found."	"Book not found."	Pass

UT-15	Add Member	Verify that an admin can add a new member to the system successfully.	Admin must be logged in with valid credentials.	Navigate to the "Add Member" section. Enter the new member's details and submit the form	Username: aathil_nishad □ Password: pass123 □ Email: aathilnishad@gmail.com	Member added and stored in the database, visible in the member list	Member added and stored in the database, visible in the member list	Pass
UT-16	Add Member with Existing Username	Verify that adding a member with an existing username shows an error.	Admin must be logged in, and the username must already exist in the database.	Navigate to the "Add Member" section. Enter an existing username and submit the form	Username: David_miller	Display error message: "Username already exists."	"Username already exists."	Pass
UT-17	Update Member Information	Verify that an admin can update a member's details successfully.	Admin must be logged in with valid credentials, and the member should exist in the database.	Navigate to the "Edit Member" section. Select a member and update the details.	Username: john_doe  New Email: john_doe_updated@example.com	Member details are updated in the database.	Member details are updated in the database.	Pass
IT-01	View Books	Verify that the system fetches and displays the list of all books	Login either through member or admin credentials	Select the view books option.	Book stored in the database with all their details.	List of all books with all details.	List of all books with all details.	Pass

IT-02	Search Books	Verify that the system allows users to search for books by title, author, or category	Login either through member or admin credentials.	Select the view books option and click on search	'Software Engineering'	Display the book 'Software Engineering'	Display the book 'Software Engineering'	Pass
IT-03	Search books using author name	Verify that the system allows users to search for books by title, author, or category	Login either through member or admin credentials.	Select the view books option and click on search	Author: 'Ian Stewart'	Display book 'Elements of number theory'	Display book 'Elements of number theory'	Pass
IT-04	Search book that does not exist	Verify that the system allows users to search for books by title, author, or category	Login either through member or admin credentials.	Select the view books option and click on search	"Elements of electrical engineering"	Display error message as book does not exist in inventory	Display error message as book does not exist in inventory	Pass
IT-05	View Members	Verify that the admin can view the list of all registered members, including their details	Login through valid admin credentials	Select the view members option after logging in.	List of all members registered and stored in the database.	Display the list of all registered members with all their details.	Display the list of all registered members with all their details.	Pass

IT-06	Search member	Verify that the admin can view all the details of a registered member	Login through valid admin credentials	Select the view member option, search for a particular member.	"john_doe"	Name, username, email, status of john_doe	Name, username, email, status of john_doe	Pass
IT-07	Search member not registered	Verify that the admin can not view the details of a member not registered.	Login through valid admin credentials.	Select the view member option, search for a particular member.	Harry_wilson	Error, member does not exist	Error, member does not exist	Pass
IT-08	View member transactions	Verify that the admin can view the transaction history for a selected member	Login through valid admin credentials.	Select the view member transactions and choose a registered member	david_miller	The list of all books borrowed/returned	The list of all books borrowed/returned	Pass
IT-09	View Overdue Books	Verify that the admin can view a list of books that are overdue.	Admin must be logged in with valid credentials.	Navigate to the "Overdue Books" section. View the list of overdue books	None required.	Display a list of books that are overdue, with member details and due dates.	Book: 'Learn Chemistry Fundamentals'  Name: John_doe  Date: 7/11/24	Pass

IT-10	Check Duplicate Book Entry Prevention	Verify that the system prevents the addition of duplicate books.	Admin must be logged in with valid credentials.	Navigate to the "Add Book" section. Enter the details of an existing book (same ISBN)	SBN: 1234567890123	Display error message: "Book with this ISBN already exists."	Display error message: "Book with this ISBN already exists."	Pass
ST-01	My transactions	Verify that a member can view their transaction history.	Login through valid member credentials.	Select my transactions option	John_doe	The list of all transactions associated with the member	The list of all transactions associated with the member	Pass
ST-02	Borrow and return book	Verify that the system updates the book availability status correctly when a member borrows and returns a book	Login through valid member credentials to first borrow a book,  Login through valid admin credentials to check status	Select a book to borrow/return  Click on a particular book to check status.	John_doe  Borrow: 'Learn chemistry fundamentals'	Display 'learn chemistry fundamentals status as "borrowed by john_doe"	Display 'learn chemistry fundamentals status as "borrowed by john_doe"	Pass

ST-03	Fine Calculation	Verify that the system calculates the due date and fine correctly when a member borrows and returns a book	Login through valid admin credentials.	Select view member transactions and select a member.	David_miller  Borrowed book: "Engineering Mechanics"  Borrow date: 24/10/24  Expected Return date: 7/11/24  Return date: 9/11/24	Fine of 50Rs per day since expected date of return.  Total fine: 100 Rs	Fine of 50Rs per day since expected date of return.  Total fine: 100 Rs	Pass
ST-04	Delete book	Verify that the system prevents any pending transactions (borrows or returns) for a deleted book	Login through valid admin credentials.	Navigate to Delete Book section Search for the book to be deleted Select the book Click Delete button Check transaction records Check book status	ISBN: "9780132350884" Title: "Clean Code" Status: "Borrowed"	Warning message displayed: "Cannot delete book - Active borrowers exist"	Warning message displayed: "Cannot delete book - Active borrowers exist"	Pass
ST-05	Register Member	Verify that the newly registered member can successfully login and access the member portal	Login through newly created member credentials	Navigate to the member login section and login through newly created member credentials.	Username: David_miller  Password: member123	Successful login into the member portal	Successful login into the member portal	Pass
ST-06	Member portal access	Verify that an admin can not access any	Login through admin credentials into the member	Navigate to the member login section and login through admin	Username: admin  Password:	Display message: "Cannot login to	Display message: "Cannot login to	Pass



		member's portal	portal	credentials.	admin123	member portal"	member portal"	
ST-07	Password Reset for Member	Verify that a member can reset their password successfully.	Member must be registered.	Navigate to the "Forgot Password" section. Enter the member's username and receive a reset link. Follow the link and set a new password.	Username: john_doe	Password reset successful and member can log in with the new password .	Password reset successful and member can log in with the new password.	Pass