

# Library Management System -Testing Instructions

Project zip file link -32350\_In Class Activity6\_(DEA).zip



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## Test 1: Student Access Control

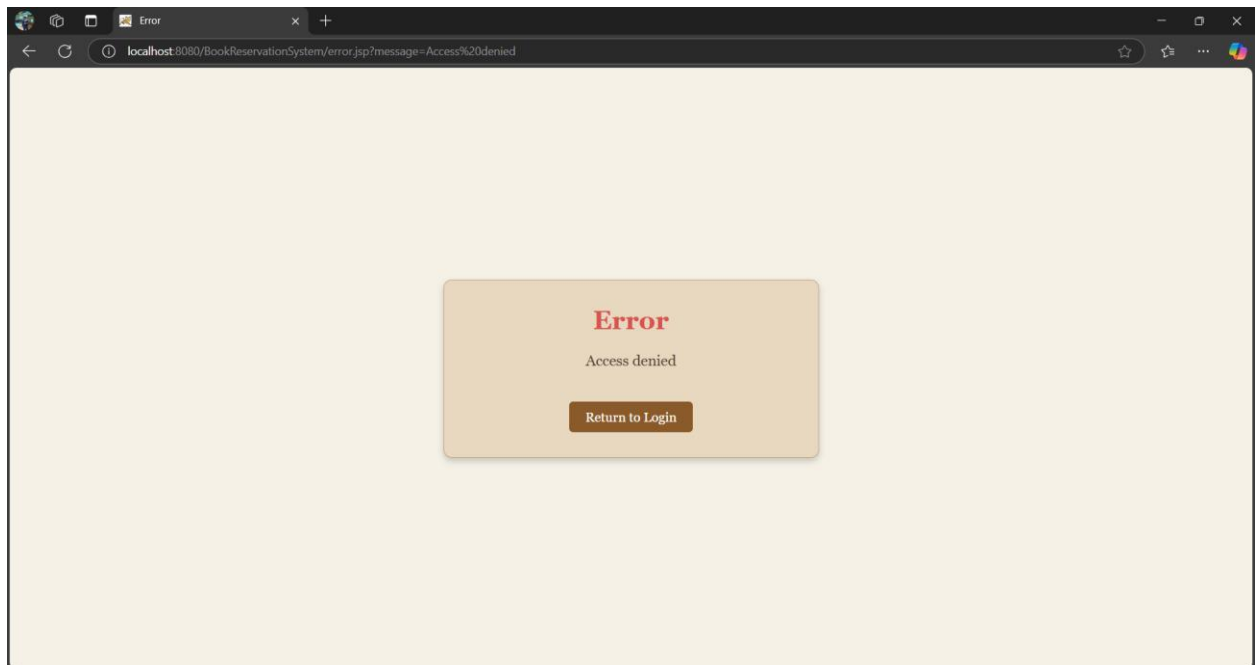
**Objective:** Verify students cannot access admin pages.

**Steps to Test:**

1. Log in as a student (e.g., student1 / student123).
2. Manually navigate to addBook.jsp.

**Expected Result:**

- System blocks access and shows an error (e.g., "Access Denied").



*Figure 1: Student redirected to error page when trying to access admin-only page.*

## Test 2: Admin Book Management

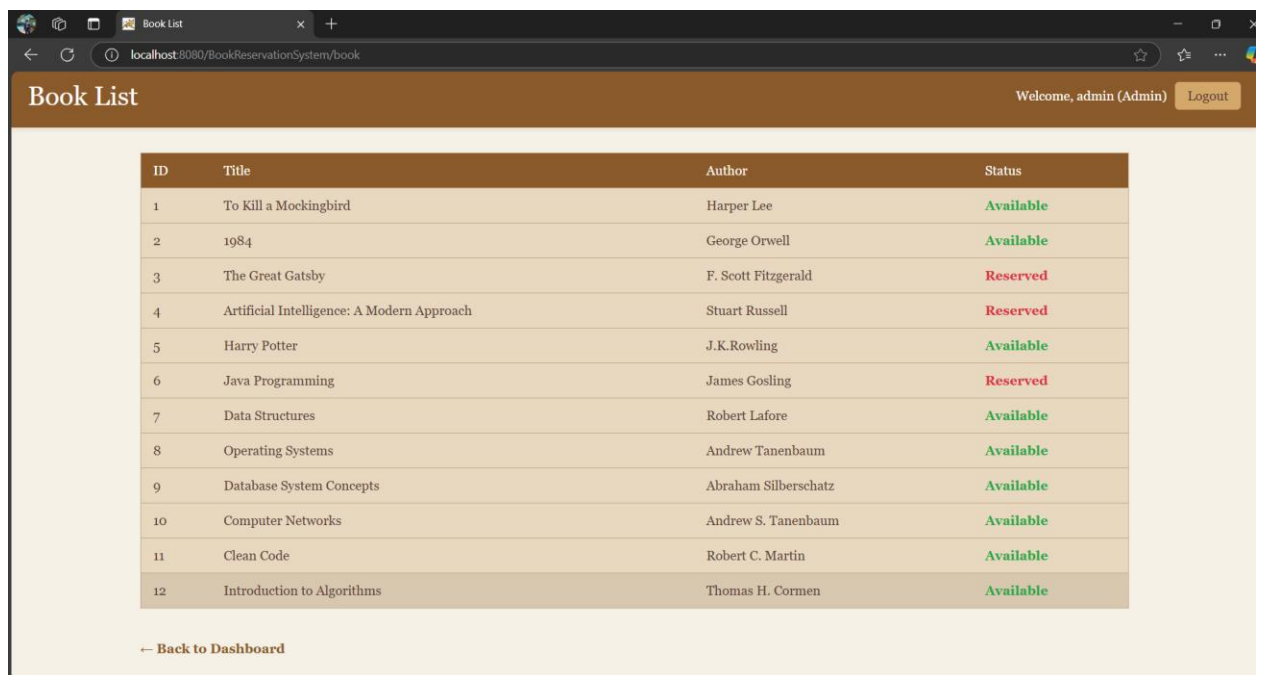
**Objective:** Verify admins can add books with proper validation.

### Part A: Valid Inputs

1. Log in as admin (admin / admin123).
2. Go to addBook.jsp.
3. Enter valid book details  
(e.g., *Title:* " Introduction to Algorithms", *Author:* " Thomas H. Cormen").
4. Submit.

### Expected Result:

- Book is added successfully.



ID	Title	Author	Status
1	To Kill a Mockingbird	Harper Lee	Available
2	1984	George Orwell	Available
3	The Great Gatsby	F. Scott Fitzgerald	Reserved
4	Artificial Intelligence: A Modern Approach	Stuart Russell	Reserved
5	Harry Potter	J.K.Rowling	Available
6	Java Programming	James Gosling	Reserved
7	Data Structures	Robert Lafore	Available
8	Operating Systems	Andrew Tanenbaum	Available
9	Database System Concepts	Abraham Silberschatz	Available
10	Computer Networks	Andrew S. Tanenbaum	Available
11	Clean Code	Robert C. Martin	Available
12	Introduction to Algorithms	Thomas H. Cormen	Available

← Back to Dashboard

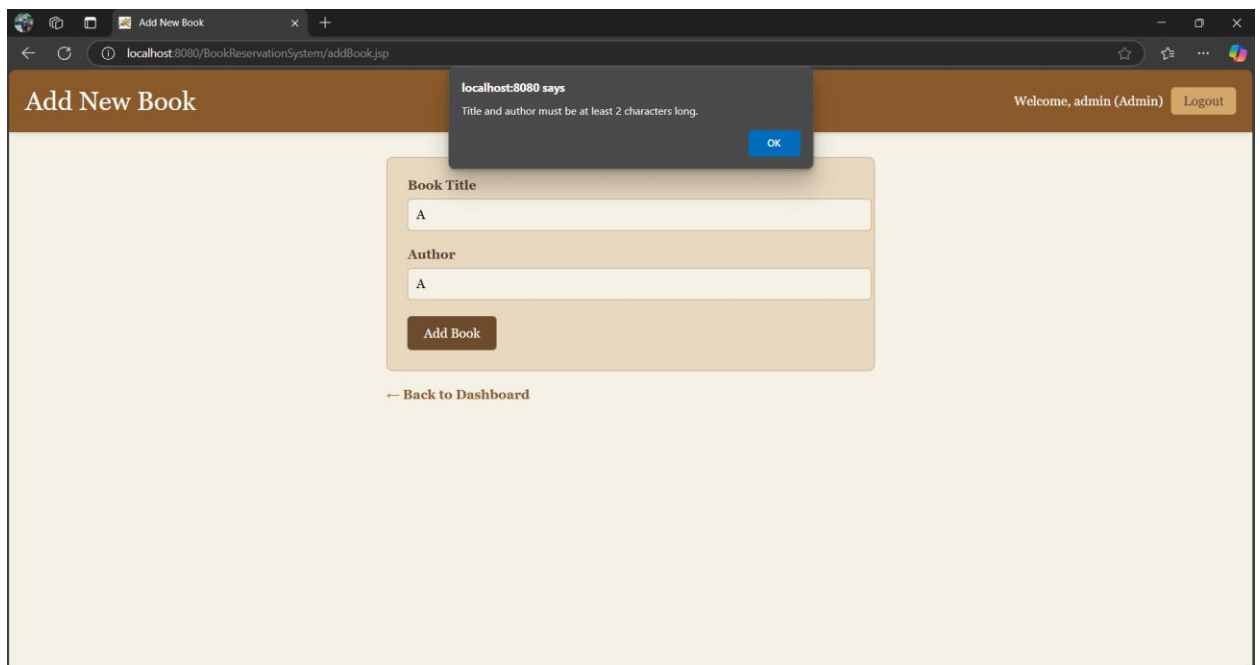
Figure 2: Admin successfully adds a new book for 12<sup>th</sup> ID.

## Part B: Invalid Inputs

1. Try submitting with:
  - Title: "A" (too short)
  - Author: "a" (too short)

### Expected Result:

- JavaScript alert blocks submission.



*Figure 3: System shows error for invalid inputs.*

## Test 3: Live Search Functionality

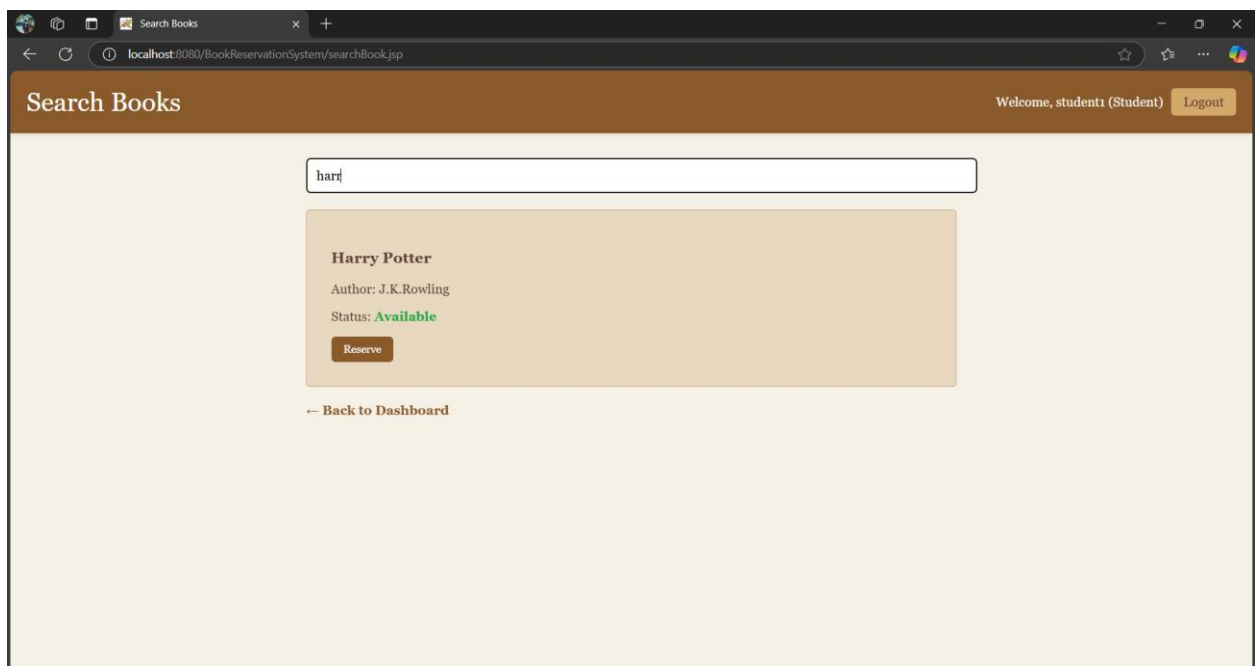
**Objective:** Verify real-time search updates.

**Steps to Test:**

1. Log in as any user.
2. Go to searchBook.jsp.
3. Type "harry" slowly.

**Expected Result:**

- Results update dynamically after 2+ characters.



*Figure 4: Search updates as the user types (GIF recommended).*

## Test 4: Form Validation

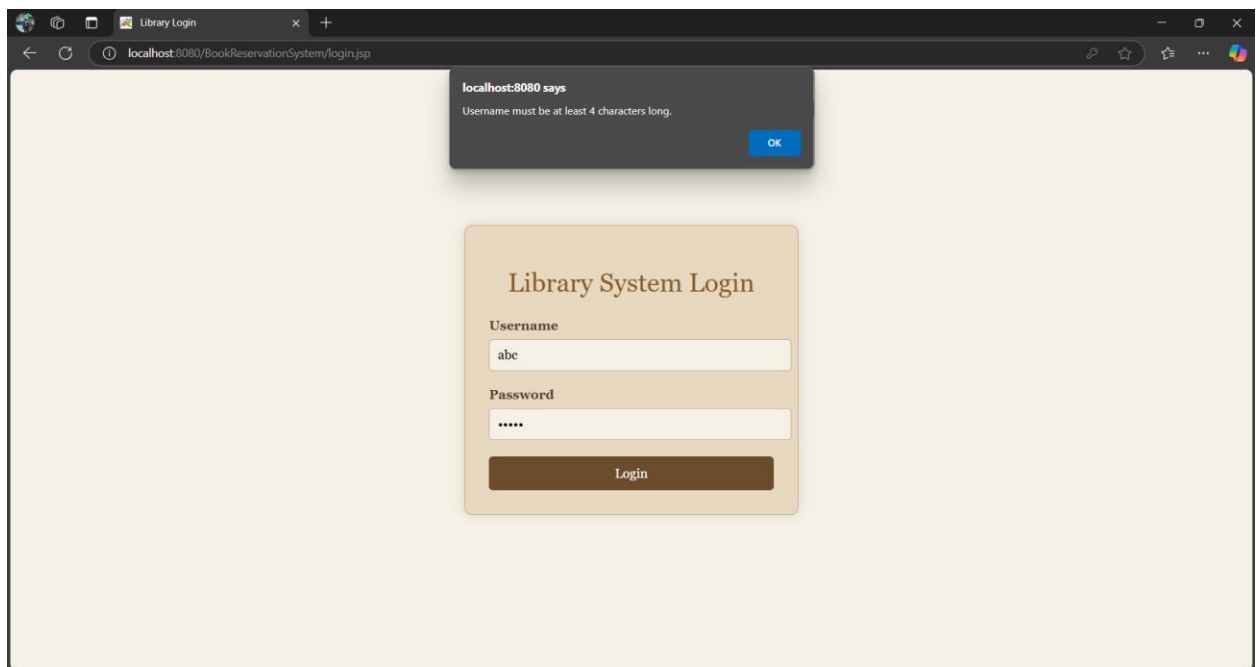
**Objective:** Ensure invalid logins are blocked.

**Steps to Test:**

1. On login.jsp, attempt:
  - Empty fields
  - Short username (abc)
  - Short password (12345)

**Expected Result:**

- Alerts appear, form won't submit.



*Figure 5: System enforces login rules.*