Performance Testing User Acceptance

Date	22 June 2025
Team ID	LTVIP2025TMID20298
Project Name	Docspot
Maximum Marks	4 Marks

Objective:

To ensure the DocSpot platform performs efficiently under expected and peak user loads. This includes verifying system speed, stability, responsiveness, and reliability during common actions like booking appointments, uploading files, and dashboard navigation.

Key Areas Tested:

1. API Response Time

- Measured API call duration for actions like login, book listing, order placement, and wishlist updates.
- o Target: Under 500ms per API call during normal load.
- Result: Average response time ranged between 180ms–430ms, meeting performance expectations.

2. Concurrent Purchase Simulation

- Simulated multiple users attempting to purchase the same limitedstock book simultaneously.
- Verified accurate stock updates and prevention of overbooking.
- Result: Stock-locking logic functioned correctly, no overselling occurred.

3. Page Load and Dashboard Rendering

- Measured load times for buyer, seller, and admin dashboards.
- Tested performance across Chrome, Firefox, and mobile browsers.
- Result: All dashboards loaded in under 1.6 seconds, ensuring smooth UX on most devices.

4. Database Query Performance

- Evaluated MongoDB query time for book search, order history, and seller inventory fetch.
- Indexed critical collections (books, orders, users) to optimize retrieval.
- Result: Queries remained below 350ms, with no noticeable delays under test load.

Conclusion:

Book Nest successfully met all major performance benchmarks. Efficient stock-locking, indexed queries, and snappy dashboard loads ensured a seamless user experience under varied loads. The system is ready for production, with minor tuning opportunities in mobile load optimization and large inventory views.

Test Cases:

Test Case ID	Test Scenario	Test Steps	Expected Result	Actual Result	Pass/Fail
TC- 001	Buyer Registration	1. Go to registration page 2. Fill buyer form (name, email, password) 3. Click "Register"	Account created successfully and redirected to buyer dashboard	As expected	Pass
TC- 002	Seller Book Upload	1. Login as seller 2. Go to "Add Book" 3. Enter book title, author, price, and upload image 4. Click "Submit"	Book saved and visible to admin for approval	As expected	Pass
TC- 003	Book Purchase (Add to Cart & Checkout)	1. Login as buyer 2. Browse book list 3. Add book to cart 4. Click "Checkout" and confirm payment	Order placed with status "Pending", and visible in both buyer and seller dashboards	As expected	Pass

TC-	Order	1. Login as	Order status	As	Pass
004	Cancellation	buyer	updates to	expected	
		2. Go to "My	"Cancelled" for		
		Orders"	both buyer and		
		3. Select an	seller		
		order	dashboards		
		4. Click			
		"Cancel"			