# 📚 Functional & Performance Testing Report

## 🛠️ Model Performance Test

\*\*Date:\*\* 20-06-2025

\*\*Team ID: LTVIP2025TMID20432

\*\*Project Name:\*\* BookNest: Where Stories Nestle

## ✅ Test Scenarios & Results

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | Scenario (What to test) | Test Steps (How to test) | Expected Result | Actual Result | Pass/Fail |
| FT-01 | User Registration Validation | Enter valid and invalid details in registration form and submit. | Valid inputs accepted, errors shown for invalid inputs. | Valid inputs accepted, errors shown for invalid inputs. | Pass |
| FT-02 | Book Search Functionality | Search books by title, author, and genre filters. | Books displayed correctly according to filters. | Books displayed correctly according to filters. | Pass |
| FT-03 | Add to Cart & Checkout Flow | Add a book to cart and complete checkout. | Order should be placed, and inventory updated. | Order placed, inventory updated. | Pass |
| FT-04 | Order History Retrieval | Place orders and check Order History page. | Previous orders displayed accurately. | Previous orders displayed accurately. | Pass |
| PT-01 | API Response Time Test | Use Postman to measure response time for book fetch and order placement. | Response time under 2 seconds for major endpoints. | Response time within 1.2-1.8 seconds. | Pass |
| PT-02 | Concurrent User Load Test | Simulate multiple users browsing and placing orders simultaneously. | System should handle multiple users without crashing. | System handled 25 concurrent users smoothly. | Pass |
| PT-03 | Database Performance Test | Check database read/write speeds during book fetch and order placement. | Data should read/write within acceptable limits without lag. | Data operations completed within limits. | Pass |