Performance Testing Report – BookNest

Date	21 February 2026
Team ID	LTVIP2026TMIDS47773
Project Name	Booknest where stories nestle
Maximum Marks	4 Marks

Introduction

Performance testing is conducted to evaluate the responsiveness, stability, and scalability of the BookNest application under various conditions. This testing ensures that the system performs efficiently when multiple users access the application simultaneously.

Objectives of Performance Testing

- To verify application response time
- To check system stability under load
- To ensure smooth navigation and data processing
- To identify potential performance bottlenecks

Test Environment

- **Frontend:** React.js
- **Backend:** Node.js, Express.js
- **Database:** MongoDB
- **Browser:** Google Chrome
- **Operating System:** Windows

Performance Test Scenarios

Test Scenario	Description

Load Testing	Multiple users accessing the application simultaneously
Response Time	Measuring page load time for Home, Books, and Login pages
Stress Testing	Evaluating performance beyond normal load
Database Performance	Fetching book data efficiently

Test Results

Parameter	Expected Result	Actual Result
Page Load Time	< 3 seconds	Within limit
Concurrent Users	50+ users	Stable
API Response	Fast	Successful
Data Fetching	Smooth	No delay

Observations

- The application handled concurrent users efficiently
- No major performance issues were observed
- API calls were processed smoothly

Conclusion

The performance testing confirms that BookNest meets performance expectations and is capable of handling real-world user traffic effectively