Software Test Report (STR)

Project Name: Room Booking
Version: 1.8
Test Lead: ibrahim
Test Execution Period: April 15, 2025 – April 17, 2025
Test Environment: Windows 10, Linux Ubuntu 22.04, Chrome 120, Firefox 115
Test Tools Used: jira, Postman, TestRail

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1. Introduction

This Software Test Report summarizes the testing activities conducted for the **Room Booking v1.8** before deployment. It includes test execution details, defect analysis, and overall software quality evaluation. The objective was to validate system functionality, performance, security, and compatibility.

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2. Test Execution Summary 📌:

Metric	Value
Total Test Cases Planned	36
Test Cases Executed	33
Test Cases Passed	29
Test Cases Failed	4
Test Execution Rate	91%
Test Coverage	91%

- **Test Execution Rate** was **91%**, meaning most planned test cases were executed.

- **Test Coverage** was **91%**, ensuring that almost all requirements were tested.

- **4 test cases failed**, requiring further investigation.

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3. Testing Efficiency Summary 🧪:

Metric	Value
Test Coverage	91%
Defect Detection Rate	11%
Test Execution Time	1 hour

- **Test Coverage** was **91%** of the requirements were covered in the testing process, indicating a high level of comprehensiveness in the tests conducted.

- **Defect Detection Rate** was **11%** of defects were identified during testing, suggesting that the tests were effective in detecting issues, though there may still be areas for improvement.

- **Test Execution Time** was 1 hour The total time spent on executing the tests was 1 hour, demonstrating efficient time management during the testing process.

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4. Process Metrics Summary:

Metric	Value
Test Case Preparation Productivity	33 test cases / week
Test Execution Productivity	33 test cases executed per tester per week
Defect Detection Efficiency (DDE)	11%
Review Efficiency	40%
Test Design Efficiency	10
Test Planning Accuracy	83.30%
Effort Variance	-1 hrs (Planned: 2 hrs, Actual: 1 hrs)
Rework Effort	0

- **Test Case Preparation Productivity** was **33** test cases / week The team prepares 33 test cases each week, reflecting a solid rate of test case preparation.

- **Test Execution Productivity** was **33** test cases executed per tester per week Each tester executes 33 test cases per week, indicating a consistent execution rate.

- **Defect Detection Efficiency (DDE)** was 11% of defects are detected during testing, suggesting that a fair percentage of defects are being identified during the process.

- **Review Efficiency** was 40% of the review efforts are efficient in identifying issues, which highlights the effectiveness of the review process but also shows room for improvement.

- **Test Design Efficiency**: The test design efficiency score of **10** indicates the quality and relevance of the test cases designed relative to the coverage of requirements.

- **Test Planning Accuracy**: The accuracy of the test planning is **83.30%**, meaning that most of the planned activities were executed as anticipated, with minor deviations.

- **Effort Variance**: -1 hours (Planned: 2 hrs, Actual: 1 hr) The actual time spent was 1 hour less than planned, reflecting good time management and efficiency.

- **Rework Effort**: No rework was required, indicating that the initial test preparation and execution were done effectively without the need for additional corrections.

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5. Performance Testing Summary 📌:

Metric	Value	
Peak Response Time	2.5s	
Average Response Time	1.2s	
Error Rate	0.5%	
Throughput	150 requests/sec	

- **Response time under 3 seconds**, meeting performance goals.

- **Error Rate below 1%**, indicating system stability.

- **Throughput of 150 requests/sec**, ensuring the platform can handle expected traffic.

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6. Test Execution Timeline & Schedule Adherence 📌 Summary:

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7. Conclusion & Release Recommendation

✅ **Final Status**: The Room Booking website meets basic functional and performance requirements, with comprehensive test coverage. However, some minor defects were found, and the platform lacks full feature completeness.

🚀 **Release Decision**: **Not ready for release** – the website is still under development and requires further improvements, including the addition of more room options and enhancement of the page's functionality.

📌 **Next Steps**:

- Address the remaining defects and improve the page layout.

- Add more room options as part of the next development phase.

- Conduct further testing once the required features are fully integrated and updated.

This **Software Test Report (STR)** provides stakeholders with a **comprehensive view** of testing outcomes, ensuring a data-driven release decision. 🚀