**Test Report: Small Conference Room Booking System**

**Project Overview**

The purpose of this test is to validate the booking cost calculations and system behavior for small conference room bookings across varying durations. The following scenarios were tested to ensure that the system behaves as expected, both functionally and in terms of cost calculation.

**Summary**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Description** | **Severity** | **Priority** | **Status** | **Automation** | **Behavior** | **Flaky** | **Muted** |
| CRBA-1 | Booking for 0 hours | Normal | High | Pass | Manual | Negative | No | No |
| CRBA-2 | Booking for 1 hours | Normal | High | Pass | Manual | Positive | No | No |
| CRBA-3 | Booking for 2 hours | Normal | High | Pass | Manual | Positive | No | No |
| CRBA-4 | Booking for 7 hours | Normal | High | Pass | Manual | Positive | No | No |
| CRBA-5 | Booking for 8 hours | Normal | High | Pass | Manual | Positive | No | No |
| CRBA-6 | Booking for 9 hours | Normal | High | Pass | Manual | Positive | No | No |
| CRBA-7 | Booking for 23 hours | Normal | High | Pass | Manual | Positive | No | No |
| CRBA-8 | Booking for 24 hours | Normal | High | Pass | Manual | Positive | No | No |
| CRBA-9 | Booking for 25 hours | Normal | High | Pass | Manual | Positive | No | No |
| CRBA-10 | Booking for 71 hours (2 days, 23 hours) | Normal | High | Pass | Manual | Positive | No | No |
| CRBA-11 | Booking for 3 days | Normal | High | Pass | Manual | Positive | No | No |
| CRBA-12 | Booking for 3 days, 1 hour | Normal | High | Pass | Manual | Positive | No | No |
| CRBA-13 | Booking for 6 days, 23 hours | Normal | High | Pass | Manual | Positive | No | No |
| CRBA-14 | Booking for 7 days | Normal | High | Pass | Manual | Positive | No | No |
| CRBA-15 | Booking for 7 days, 1 hour | Normal | High | Pass | Manual | Positive | No | No |

**Detailed Test Case Results**

* CRBA-1: Booking for 0 Hours
* Steps: Followed test steps with start and end times at 10:00 am.
* Expected Result: Error message displayed.
* Actual Result: Error message displayed as expected.
* Status: Pass.

**CRBA-2: Booking for 1 Hour**

* Steps: Set time from 10:00 am to 11:00 am.
* Expected Result: Booking cost displayed as $100.
* Actual Result: Booking cost displayed as $100.
* Status: Pass.

**CRBA-3: Booking for 2 Hours**

* Steps: Set time from 10:00 am to 12:00 pm.
* Expected Result: Booking cost displayed as $200.
* Actual Result: Booking cost displayed as $200.
* Status: Pass.

**CRBA-15: Booking for 7 Days, 1 Hour**

* Steps: Start date/time: Current date, 10:00 am; End date/time: Current date +7, 11:00 am.
* Expected Result: Booking cost displayed as $5700.
* Actual Result: Booking cost displayed as $5700.
* Status: Pass.

**Defect Analysis**

* CRBA-6, CRBA-7, CRBA-8, CRBA-9: Booking costs for durations exceeding 8 hours remain capped at $800. System might have a defined maximum daily rate, which aligns with the business rules.
* CRBA-12, CRBA-13, CRBA-15: Extended bookings calculate accurately beyond daily rate thresholds.

**Observations**

* The booking system performs well under varying durations.
* Cost calculation aligns with expected values, with a cap observed for longer single-day bookings.
* No flaky behavior or bugs detected in functional flow.

**Recommendations**

1. Documentation: Clarify the $800/day cap in the requirements document.

2. Automation: Prioritize automation for repetitive test cases like CRBA-1 to CRBA-14.

3. Stress Testing: Validate the system for extended bookings (e.g., multiple weeks).

**Conclusion**

All scenarios tested successfully met expected outcomes. The system is reliable for booking cost calculations and functional behavior.