**Test Report**

**Project Information**

**Project Name: Long-Term Garage Parking Rate Calculation**

**Version:1.0**

**Report Date: 22.10.2024**

**Prepared By: Taspia Roshid Manna**

**Approved By: Muntasir Abdulla**

**Test Summary:**

The purpose of this testing is to verify the accuracy of rate calculations for Long-Term Garage Parking, based on different time intervals. The scenarios include calculating rates for durations from 30 minutes to 8 days. This test focuses on functional and end-to-end (E2E) testing to ensure the system provides correct rate outputs based on input dates and times.

**Test Objectives:**

* Validate the rate calculations for parking durations specified in the test cases.
* Ensure system stability across different input scenarios.
* Identify and document any deviations or errors in rate calculations.

**Test Environment:**

**Operating System:** Windows 11

**Browser:** Google Chrome v97

**Database:** PostgreSQL 12

**Testing Tool:** Manual Testing

**Test Layer:** End-to-End (E2E)

**Test Cases Executed:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID** | **Description** | **Expected Result** | **Actual Result** | **Status** |
| PMS-6 | Calculate rate for 30 minutes | System displays cost: $2.00 | System displays cost: $2.00 | Passed |
| PMS-7 | |  | | --- | | Calculate rate for 1 hour | | |  | | --- | | Calculate rate for 1 hour | | |  | | --- | | Calculate rate for 1 hour | | Passed |
| PMS-8 | |  | | --- | | Calculate rate for 1 day (24 hours) | | |  | | --- | | Calculate rate for 1 day (24 hours) | | |  | | --- | | Calculate rate for 1 day (24 hours) | | Passed |
| PMS-9 | |  | | --- | | Calculate rate for 7 days (168 hours) | | |  | | --- | | Calculate rate for 7 days (168 hours) | | |  | | --- | | Calculate rate for 7 days (168 hours) | | Passed |
| PMS-10 | |  | | --- | | Calculate rate for 8 days (192 hours) | | |  | | --- | | Calculate rate for 8 days (192 hours) | | |  | | --- | | Calculate rate for 8 days (192 hours) | | Passed |

**Defect Summary:**

**No defects identified:** All expected results matched the actual outcomes in this testing phase.

**Risk Analysis:**

**Known Risks:** None identified in the current testing scope. The system performed as expected across all test cases.

**Potential Risks:** Further testing may be required for longer durations or additional edge cases outside of the specified time intervals.

**Conclusion:**

The system accurately calculates and displays parking rates for each tested interval, including handling error scenarios for parking durations exceeding the allowed limit (8 days). Based on the results, the system is ready for release, with no critical issues identified during this round of testing.

**Recommendation**

**Proceed with deployment or client review based on the requirements. Further testing can be considered for extended durations beyond 8 days, if needed in future versions**.