**Test Report**

**Project Information**

**Project Name: Short-Term (Hourly) Parking Rate Calculation**

**Version: 1.0**

**Report Date: 23.10.2024**

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**Test Summary**

The objective of this testing is to validate the accuracy and functionality of the Short-Term (Hourly) Parking rate calculation system. The tests cover various parking durations, ranging from 20 minutes to 25 hours, to confirm that the system provides accurate pricing based on input duration.

**Test Objectives:**

* Verify that the Short-Term Parking rate calculation logic is accurate for a range of intervals.
* Ensure the system allows entry and processes data correctly across different time spans.
* Confirm that cost displays are correct and consistent with expected 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:**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | **Test Case ID** | | |  | | --- | | **Test Case ID** | | |  | | --- | | **Test Case ID** | | |  | | --- | | **Test Case ID** | | |  | | --- | | **Test Case ID** | |
| PMS-11 | Calculate rate for 20 minutes | System displays cost: $2.00 | System displays cost: $2.00 | Passed |
| PMS-12 | Calculate rate for 30 minutes | System displays cost: $2.00 | System displays cost: $2.00 | Passed |
| PMS-13 | Calculate rate for 1 hour | System displays cost: $2.00 | System displays cost: $2.00 | Passed |
| PMS-14 | Calculate rate for 2 hours | System displays cost: $4.00 | System displays cost: $4.00 | Passed |
| PMS-15 | Calculate rate for 24 hours | System displays cost: $24.00 | System displays cost: $24.00 | System displays cost: $24.00 |
| PMS-16 | Calculate rate for 25 hours | System displays cost: $26.00 | System displays cost: $26.00 | Passed |

**Defect Summary:**

* No defects identifiedAll actual results matched expected outcomes based on input parameters, with no deviations noted in the rate calculation or display functionalities.

**Risk Analysis:**

**Known Risks:** None identified for this phase of testing. The system functioned as expected for each test case.

**Potential Risks:** Additional testing may be required for higher hour-based calculations or stress tests if the system is expected to handle more extensive durations in future.

**Conclusion**

The system successfully calculates and displays Short-Term Parking rates for all tested intervals. The actual results align with expected values, demonstrating that the parking rate calculation feature is functioning correctly and is stable.