**Test Report**

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

**Report Date: 23.10.2024**

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**1. Test Summary**

This report outlines the results of testing the Economy Lot Parking rate calculation. The tests were conducted to ensure that the system accurately calculates and displays the parking rates based on durations ranging from 30 minutes to 10 days. The report details each test case's execution and outcomes.

**2. Objectives**

* Validate the system's ability to handle various parking durations.
* Ensure accuracy of cost calculations for the specified times.
* Verify the UI's responsiveness and display of the calculated costs for different parking durations.

**3. Test Environment**

 **Operating System:** Windows 11

 **Browser:** Google Chrome v97

 **Database:** PostgreSQL 12

 **Testing Tool:** Manual Testing

 **Test Layer:** End-to-End (E2E)

**4. Test Case Results**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID** | **Description** | **Expected Result** | **Actual Result** | **Status** |
| PMS-22 | Calculate rate for 20 minutes | System displays cost: $2.00 | System displays cost: $2.00 | Passed |
| PMS-23 | Calculate rate for 1 hour | System displays cost: $2.00 | System displays cost: $2.00 | Passed |
| PMS-24 | Calculate rate for 24 hours (1 Day) | System displays cost: $10.00 | System displays cost: $10.00 | Passed |
| PMS-25 | Calculate rate for 7 days (1 week) | System displays cost: $60.00 | System displays cost: $60.00 | Passed |
| PMS-26 | Calculate rate for 21 days (3 weeks) | System displays cost: $180.00 | System displays cost: $180.00 | Passed |

**5. Defects:**

No defects identified: All test cases produced expected outcomes, with cost calculations and UI functioning as specified.

**6. Risk Analysis:**

* No risks identified during testing. The system performed accurately and consistently for all tested time spans.

**7. Recommendations:**

The module has passed all tests with expected results and is deemed reliable for deployment. Further testing with edge cases (e.g., leap years, daylight saving adjustments) is recommended to ensure long-term reliability.