

**PARKING CALCULATOR**  
**– TEST**  
**DOCUMENTATION**

# 1. Introduction

The goal of this document is to provide a detailed overview of the testing activities inside Parking Calculator project, including test strategy, test execution, results, and any defects identified. This document covers functional testing, cross-browser testing, and edge case testing for Parking Calculator project.

## 2. Test Overview

- Project Name: Parking Calculator
- Tested By: Kevin Sugeng
- Tools:
  - Jira: For tracking project progress, managing test cases, and logging defects.
  - Zephyr Scale: Tools that can integrated with Jira for creating and executing test cases with Jira.
  - Selenium: Automation tool used for executing repetitive and regression testing.
- Test Environment:
  - Web browsers: Chrome, Firefox.
- Epic and User Stories Covered:
  - Epic: Testing Parking Calculator

User Story ID	User Story Title	Description
SCRUM-10	As a user, I want to select a parking lot type so that I can calculate the parking cost based on my selection	Ensure users can select different parking lot types and calculated correct calculations.
SCRUM-17	As a user, I want to calculate the cost of Valet Parking based on different durations so I can see how much I need to pay.	Test Valet Parking cost calculations for various durations.
SCRUM-18	As a user, I want to calculate the cost of Lot Parking based on different durations so I can know the total fee.	Verifies accurate Lot Parking fee for different time periods.
SCRUM-19	As a user, I want to calculate the cost of Hourly Parking based on different durations so I can find out what the charge will be.	Checks Hourly Parking charges, making sure correct cost increases with time.
SCRUM-20	As a user, I want to calculate the cost of Hourly Parking based on different durations so I can find out what the charge will be.	Confirms Garage Parking fees are calculate correctly for hourly and daily rate.
SCRUM-21	As a user, I want to calculate the cost of Surface Parking based on different durations so I know how much it will cost me.	Verifies Surface Parking cost calculations are accurate for several durations.

### 3. Test Execution and Cycles

#### Test Cycles Overview

##### Test Cycles 1: Functional Testing Cycle 1

- Cycle ID: SCRUM-R6
- Duration: 07/28/24
- Objective: Validate basic functionality of Parking Calculator across different parking lot types
- Test Cases: 5
- Pass: 4
- Fail: 1 (SCRUM-T6 – Valet Parking)

- **Summary:** In the first cycle, most of test cases has passed except for the valet parking, where the system showed an incorrect parking cost. This issue was resolved by developer and in subsequent testing.

SCRUM-R6 Parking Calculator - Functional testing Cycle 1										
ID	Test Case Name	Precondition	Objective	Priority	QA Name	Test Step	Test Data	Expected Result	Actual Result	Status
SCRUM-T2	Type - Lot Parking - User able to select a parking lot type so that It can calculate the parking cost based on the selection	User is on the Parking Calculator page.	User able to select a parking lot type so that It can calculate the parking cost based on the selection	High	Kevin Sugeng	Go to <a href="http://127.0.0.1:5500/src/">http://127.0.0.1:5500/src/</a>		User should be able to see the parking cost application	Parking cost shown as \$9	PASS
						Choose Parking Lot	Lot Parking	User should be able to select Lot parking from the dropdown		
						Enter entry date and time	08/28/2024 12:00	User should be able to enter entry date and time		
						Enter leaving date and time	08/28/2024 22:00	User should be able to enter leaving date and time		
						Click 'Calculate' button		Parking cost should be shows as \$9		
SCRUM-T3	Type - Hourly Parking - User able to select a parking lot type so that It can calculate the parking cost based on the selection	User is on the Parking Calculator page.	User able to select a parking lot type so that It can calculate the parking cost based on the selection	High	Kevin Sugeng	Go to <a href="http://127.0.0.1:5500/src/">http://127.0.0.1:5500/src/</a>		User should be able to see the parking cost application	Parking cost shown as \$2	PASS
						Choose Parking Lot	Lot Parking	User should be able to select Lot parking from the dropdown		
						Enter entry date and time	08/28/2024 12:00	User should be able to enter entry date and time		
						Enter leaving date and time	08/28/2024 13:00	User should be able to enter leaving date and time		
						Click 'Calculate' button		Parking cost should be shows as \$2		
SCRUM-T4	Type - Garage Parking - User able to select a parking lot type so that It can calculate the parking cost based on the selection	User is on the Parking Calculator page.	User able to select a parking lot type so that It can calculate the parking cost based on the selection	High	Kevin Sugeng	Go to <a href="http://127.0.0.1:5500/src/">http://127.0.0.1:5500/src/</a>		User should be able to see the parking cost application	Parking cost shown as \$10	PASS
						Choose Parking Lot	Garage Parking	User should be able to select Garage parking from the dropdown		
						Enter entry date and time	08/28/2024 12:00	User should be able to enter entry date and time		
						Enter leaving date and time	08/28/2024 17:00	User should be able to enter leaving date and time		
						Click 'Calculate' button		Parking cost should be shows as \$10		
SCRUM-T5	Type - Surface Parking - User able to select a parking lot type so that It can calculate the parking cost based on the selection	User is on the Parking Calculator page.	User able to select a parking lot type so that It can calculate the parking cost based on the selection	High	Kevin Sugeng	Go to <a href="http://127.0.0.1:5500/src/">http://127.0.0.1:5500/src/</a>		User should be able to see the parking cost application	Parking cost shown as \$10	PASS
						Choose Parking Lot	Lot Parking	User should be able to select surface parking from the dropdown		
						Enter entry date and time	08/28/2024 12:00	User should be able to enter entry date and time		
						Enter leaving date and time	08/28/2024 17:00	User should be able to enter leaving date and time		
						Click 'Calculate' button		Parking cost should be shows as \$10		
SCRUM-T6	Type - Valet Parking - User able to select a parking lot type so that It can calculate the parking cost based on the selection	User is on the Parking Calculator page.	User able to select a parking lot type so that It can calculate the parking cost based on the selection	High	Kevin Sugeng	Go to <a href="http://127.0.0.1:5500/src/">http://127.0.0.1:5500/src/</a>		User should be able to see the parking cost application	Parking cost shown as \$12	FAIL
						Choose Parking Lot	Valet Parking	User should be able to select valet parking from the dropdown		
						Enter entry date and time	08/28/2024 12:00	User should be able to enter entry date and time		
						Enter leaving date and time	08/28/2024 17:00	User should be able to enter leaving date and time		
						Click 'Calculate' button		Parking cost should be shows as \$18		

## Test Cycles 2: Functional Testing Cycle 2

- **Cycle ID:** SCRUM-R7
- **Duration:** 07/29/24
- **Objective:** Resolved Issues from the first cycle and ensure edge cases are handled correctly.
- **Test Cases:** 25
- **Pass:** 16
- **Fail:** 9

Summary: The second cycle focused on retesting the failed cases from the first cycle and edge cases. .

This issue was resolved by developer and in subsequent testing.

Functional Testing 2										
ID	Test Case Name	Precondition	Objective	Priority	QA Name	Test Step	Test Data	Expected Result	Actual Result	Status
SCRUM-77	Valet Parking - Valid Entry and Exit Date/Time	User is on the Parking Calculator page. All input fields are visible and functional.	Verify that the system calculates the correct parking duration when valid entry and exit dates and times are entered.	High	Kevin Sugeng	Click on the "Calculate" button. Go to <a href="http://127.0.0.1:5000/src/">http://127.0.0.1:5000/src/</a> Choose Parking Lot		User should be able to see the parking cost application	Parking cost shown as \$12	PASS
						Enter a valid entry date and time	08/29/2024 09:00	User should be able to enter entry date and time		
						Enter a valid exit date and time	08/29/2024 12:00	User should be able to enter exit date and time		
SCRUM-78	Hourly Parking - Exit Date/Time Before Entry Date/Time	User is on the Parking Calculator page. All input fields are visible and functional.	Verify that the system displays an error message when the exit date/time is before the entry date/time.	Normal	Kevin Sugeng	Click on the "Calculate" button. Go to <a href="http://127.0.0.1:5000/src/">http://127.0.0.1:5000/src/</a> Choose Parking Lot	Hourly Parking	User should be able to see the parking cost application	should output Leaving date and time cannot be before entry date and time"	PASS
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to select Hourly parking from the dropdown		
						Enter a valid exit date and time	08/29/2024 09:00	User should be able to enter entry date and time		
SCRUM-79	Hourly Parking - Same Entry and Exit Date/Time	User is on the Parking Calculator page. All input fields are visible and functional.	Verify that the system handles the case where the entry and exit times are the same.	Normal	Kevin Sugeng	Click on the "Calculate" button. Go to <a href="http://127.0.0.1:5000/src/">http://127.0.0.1:5000/src/</a> Choose Parking Lot	Hourly Parking	User should be able to see the parking cost application	Shows No Estimate	FAIL
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to select Hourly parking from the dropdown		
						Enter a valid exit date and time	08/29/2024 12:00	User should be able to enter exit date and time		
SCRUM-T10	Surface Parking - Multiple Days Duration	User is on the Parking Calculator page. All input fields are visible and functional.	Verify that the system correctly calculates the parking duration when the exit date is on a different day than the entry date.	Normal	Kevin Sugeng	Click on the "Calculate" button. Go to <a href="http://127.0.0.1:5000/src/">http://127.0.0.1:5000/src/</a> Choose Parking Lot	Surface Parking	User should be able to see the parking cost application	Parking cost shown as \$10	FAIL
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to select Surface parking from the dropdown		
						Enter a valid exit date and time	08/31/2024 12:00	User should be able to enter exit date and time		
SCRUM-T11	Hourly Parking - Edge case - One minute duration	User is on the Parking Calculator page. All input fields are visible and functional.	Verify that the system correctly handles cases where the duration is very short (e.g., one minute).	Normal	Kevin Sugeng	Click on the "Calculate" button. Go to <a href="http://127.0.0.1:5000/src/">http://127.0.0.1:5000/src/</a> Choose Parking Lot	Hourly Parking	should output \$60	Parking cost shown as \$2	PASS
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to select Hourly parking from the dropdown		
						Enter a valid exit date and time	08/29/2024 12:01	User should be able to enter exit date and time		
SCRUM-T13	Hourly Parking - Valid Entry and Exit Date/Time	User is on the Parking Calculator page. All input fields are visible and functional.	Verify that the system calculates the correct parking duration when valid entry and exit dates and times are entered.	High	Kevin Sugeng	Click on the "Calculate" button. Go to <a href="http://127.0.0.1:5000/src/">http://127.0.0.1:5000/src/</a> Choose Parking Lot	Hourly Parking	should output \$2.00	Parking cost shown as \$6	PASS
						Enter a valid entry date and time	08/29/2024 09:00	User should be able to see the parking cost application		
						Enter a valid exit date and time	08/29/2024 12:00	User should be able to select Hourly parking from the dropdown		
SCRUM-T14	Garage Parking - Valid Entry and Exit Date/Time	User is on the Parking Calculator page. All input fields are visible and functional.	Verify that the system calculates the correct parking duration when valid entry and exit dates and times are entered.	High	Kevin Sugeng	Click on the "Calculate" button. Go to <a href="http://127.0.0.1:5000/src/">http://127.0.0.1:5000/src/</a> Choose Parking Lot	Garage Parking	User should be able to see the parking cost application	Parking cost shown as \$6	PASS
						Enter a valid entry date and time	08/29/2024 09:00	User should be able to select Garage parking from the dropdown		
						Enter a valid exit date and time	08/29/2024 12:00	User should be able to enter entry date and time		
SCRUM-T12	Surface Parking - Valid Entry and Exit Date/Time	User is on the Parking Calculator page. All input fields are visible and functional.	Verify that the system calculates the correct parking duration when valid entry and exit dates and times are entered.	High	Kevin Sugeng	Click on the "Calculate" button. Go to <a href="http://127.0.0.1:5000/src/">http://127.0.0.1:5000/src/</a> Choose Parking Lot	Surface Parking	should be \$6 as it have valid entry and exit date and time	Parking cost shown as \$6	PASS
						Enter a valid entry date and time	08/29/2024 09:00	User should be able to see the parking cost application		
						Enter a valid exit date and time	08/29/2024 12:00	User should be able to select Surface parking from the dropdown		
SCRUM-T16	Lot Parking - Valid Entry and Exit Date/Time	User is on the Parking Calculator page. All input fields are visible and functional.	Verify that the system calculates the correct parking duration when valid entry and exit dates and times are entered.	High	Kevin Sugeng	Click on the "Calculate" button. Go to <a href="http://127.0.0.1:5000/src/">http://127.0.0.1:5000/src/</a> Choose Parking Lot	Lot Parking	User should be able to see the parking cost application	Parking cost shown as \$6	PASS
						Enter a valid entry date and time	08/29/2024 09:00	User should be able to select Lot parking from the dropdown		
						Enter a valid exit date and time	08/29/2024 12:00	User should be able to enter entry date and time		
SCRUM-T17	Lot Parking - Multiple Days Duration	User is on the Parking Calculator page. All input fields are visible and functional.	Verify that the system correctly calculates the parking duration when the exit date is on a different day than the entry date.	Normal	Kevin Sugeng	Click on the "Calculate" button. Go to <a href="http://127.0.0.1:5000/src/">http://127.0.0.1:5000/src/</a> Choose Parking Lot	Lot Parking	should be \$6 as it have valid entry and exit date and time	Parking cost shown as \$9	FAIL
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to select Lot parking from the dropdown		
						Enter a valid exit date and time	08/31/2024 12:00	User should be able to enter exit date and time		
SCRUM-T18	Garage Parking - Multiple Days Duration	User is on the Parking Calculator page. All input fields are visible and functional.	Verify that the system correctly calculates the parking duration when the exit date is on a different day than the entry date.	Normal	Kevin Sugeng	Click on the "Calculate" button. Go to <a href="http://127.0.0.1:5000/src/">http://127.0.0.1:5000/src/</a> Choose Parking Lot	Garage Parking	should output \$54	Parking cost shown as \$12	FAIL
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to see the parking cost application		
						Enter a valid exit date and time	08/31/2024 12:00	User should be able to select Garage parking from the dropdown		
SCRUM-T19	Hourly Parking - Multiple Days Duration	User is on the Parking Calculator page. All input fields are visible and functional.	Verify that the system correctly calculates the parking duration when the exit date is on a different day than the entry date.	Normal	Kevin Sugeng	Click on the "Calculate" button. Go to <a href="http://127.0.0.1:5000/src/">http://127.0.0.1:5000/src/</a> Choose Parking Lot	Hourly Parking	User should be able to see the parking cost application	Parking cost shown as \$24	PASS
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to select Hourly parking from the dropdown		
						Enter a valid exit date and time	08/31/2024 12:00	User should be able to enter entry date and time		
SCRUM-T20	Valet Parking - Multiple Days Duration	User is on the Parking Calculator page. All input fields are visible and functional.	Verify that the system correctly calculates the parking duration when the exit date is on a different day than the entry date.	Normal	Kevin Sugeng	Click on the "Calculate" button. Go to <a href="http://127.0.0.1:5000/src/">http://127.0.0.1:5000/src/</a> Choose Parking Lot	Valet Parking	User should be able to see the parking cost application	Shows No Estimate	FAIL
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to select Valet parking from the dropdown		
						Enter a valid exit date and time	08/31/2024 12:00	User should be able to enter exit date and time		
SCRUM-T21	Lot Parking - Same Entry and Exit Date/Time	User is on the Parking Calculator page. All input fields are visible and functional.	Verify that the system handles the case where the entry and exit times are the same.	Normal	Kevin Sugeng	Click on the "Calculate" button. Go to <a href="http://127.0.0.1:5000/src/">http://127.0.0.1:5000/src/</a> Choose Parking Lot	Lot Parking	should output \$36	Parking cost shown as \$0	PASS
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to select Lot parking from the dropdown		
						Enter a valid exit date and time	08/29/2024 12:00	User should be able to enter entry date and time		
SCRUM-T22	Surface Parking - Same Entry and Exit Date/Time	User is on the Parking Calculator page. All input fields are visible and functional.	Verify that the system handles the case where the entry and exit times are the same.	Normal	Kevin Sugeng	Click on the "Calculate" button. Go to <a href="http://127.0.0.1:5000/src/">http://127.0.0.1:5000/src/</a> Choose Parking Lot	Surface Parking	User should be able to see the parking cost application	Parking cost shown as \$0	PASS
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to select Surface parking from the dropdown		
						Enter a valid exit date and time	08/29/2024 12:00	User should be able to enter entry date and time		
SCRUM-T23	Garage Parking - Same Entry and Exit Date/Time	User is on the Parking Calculator page. All input fields are visible and functional.	Verify that the system handles the case where the entry and exit times are the same.	Normal	Kevin Sugeng	Click on the "Calculate" button. Go to <a href="http://127.0.0.1:5000/src/">http://127.0.0.1:5000/src/</a> Choose Parking Lot	Garage Parking	should output \$0	Parking cost shown as \$0	PASS
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to see the parking cost application		
						Enter a valid exit date and time	08/29/2024 12:00	User should be able to select Garage parking from the dropdown		
SCRUM-T24	Valet Parking - Same Entry and Exit Date/Time	User is on the Parking Calculator page. All input fields are visible and functional.	Verify that the system handles the case where the entry and exit times are the same.	Normal	Kevin Sugeng	Click on the "Calculate" button. Go to <a href="http://127.0.0.1:5000/src/">http://127.0.0.1:5000/src/</a> Choose Parking Lot	Valet Parking	User should be able to see the parking cost application	Parking cost shown as \$12	FAIL
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to select Valet parking from the dropdown		
						Enter a valid exit date and time	08/29/2024 12:00	User should be able to enter entry date and time		
SCRUM-T25	Valet Parking - Exit Date/Time Before Entry Date/Time	User is on the Parking Calculator page. All input fields are visible and functional.	Verify that the system displays an error message when the exit date/time is before the entry date/time.	Normal	Kevin Sugeng	Click on the "Calculate" button. Go to <a href="http://127.0.0.1:5000/src/">http://127.0.0.1:5000/src/</a> Choose Parking Lot	Valet Parking	should output \$0	should output Leaving date and time cannot be before entry date and time"	PASS
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to select Valet parking from the dropdown		
						Enter a valid exit date and time	08/29/2024 09:00	User should be able to enter entry date and time		
SCRUM-T26	Garage Parking - Exit Date/Time Before Entry Date/Time	User is on the Parking Calculator page. All input fields are visible and functional.	Verify that the system displays an error message when the exit date/time is before the entry date/time.	Normal	Kevin Sugeng	Click on the "Calculate" button. Go to <a href="http://127.0.0.1:5000/src/">http://127.0.0.1:5000/src/</a> Choose Parking Lot	Garage Parking	should output "Leaving date and time cannot be before entry date and time"	should output Leaving date and time cannot be before entry date and time"	PASS
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to see the parking cost application		
						Enter a valid exit date and time	08/29/2024 09:00	User should be able to select Garage parking from the dropdown		
SCRUM-T27	Surface Parking - Exit Date/Time Before Entry Date/Time	User is on the Parking Calculator page. All input fields are visible and functional.	Verify that the system displays an error message when the exit date/time is before the entry date/time.	Normal	Kevin Sugeng	Click on the "Calculate" button. Go to <a href="http://127.0.0.1:5000/src/">http://127.0.0.1:5000/src/</a> Choose Parking Lot	Surface Parking	should output "Leaving date and time cannot be before entry date and time"	should output Leaving date and time cannot be before entry date and time"	PASS
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to see the parking cost application		
						Enter a valid exit date and time	08/29/2024 09:00	User should be able to select Surface parking from the dropdown		
SCRUM-T28	Lot Parking - Exit Date/Time Before Entry Date/Time	User is on the Parking Calculator page. All input fields are visible and functional.	Verify that the system displays an error message when the exit date/time is before the entry date/time.	Normal	Kevin Sugeng	Click on the "Calculate" button. Go to <a href="http://127.0.0.1:5000/src/">http://127.0.0.1:5000/src/</a> Choose Parking Lot	Lot Parking	should output "Leaving date and time cannot be before entry date and time"	should output Leaving date and time cannot be before entry date and time"	PASS
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to see the parking cost application		
						Enter a valid exit date and time	08/29/2024 09:00	User should be able to select Lot parking from the dropdown		
SCRUM-T29	Lot Parking - Edge case - One minute duration	User is on the Parking Calculator page. All input fields are visible and functional.	Verify that the system correctly handles cases where the duration is very short (e.g., one minute).	Normal	Kevin Sugeng	Click on the "Calculate" button. Go to <a href="http://127.0.0.1:5000/src/">http://127.0.0.1:5000/src/</a> Choose Parking Lot	Lot Parking	should output \$2.00	Parking cost shown as \$0.03	FAIL
						Enter a valid entry date and time	08/29/2024 12:01	User should be able to enter entry date and time		
						Enter a valid exit date and time	08/29/2024 12:01	User should be able to enter exit date and time		
SCRUM-T30	Surface Parking - Edge case - One minute duration	User is on the Parking Calculator page. All input fields are visible and functional.	Verify that the system correctly handles cases where the duration is very short (e.g., one minute).	Normal	Kevin Sugeng	Click on the "Calculate" button. Go to <a href="http://127.0.0.1:5000/src/">http://127.0.0.1:5000/src/</a> Choose Parking Lot	Surface Parking	should output \$2.00	Parking cost shown as \$0.03	FAIL
						Enter a valid entry date and time	08/29/2024 12:01	User should be able to enter entry date and time		
						Enter a valid exit date and time	08/29/2024 12:01	User should be able to enter exit date and time		
SCRUM-T31	Valet Parking - Edge case - One minute duration	User is on the Parking Calculator page. All input fields are visible and functional.	Verify that the system correctly handles cases where the duration is very short (e.g., one minute).	Normal	Kevin Sugeng	Click on the "Calculate" button. Go to <a href="http://127.0.0.1:5000/src/">http://127.0.0.1:5000/src/</a> Choose Parking Lot	Valet Parking	User should be able to see the parking cost application	Parking cost shown as \$12	PASS
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to select Valet parking from the dropdown		
						Enter a valid exit date and time	08/29/2024 12:01	User should be able to enter entry date and time		
SCRUM-T32	Garage Parking - Edge case - One minute duration	User is on the Parking Calculator page. All input fields are visible and functional.	Verify that the system correctly handles cases where the duration is very short (e.g., one minute).	Normal	Kevin Sugeng	Click on the "Calculate" button. Go to <a href="http://127.0.0.1:5000/src/">http://127.0.0.1:5000/src/</a> Choose Parking Lot	Garage Parking	should output \$1.1	Parking cost shown as \$0.03	FAIL
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to see the parking cost application		
						Enter a valid exit date and time	08/29/2024 12:01	User should be able to select Garage parking from the dropdown		

## 4. Defect Testing Summary

DEFECT RETESTING AFTER RESOLVED - TESTING CYCLE 1											
ID	Test Case Name	Previous Result	Priority	QA Name	Resolve	Test Step	Test Data	Expected Result		Actual Result	Status
SCRUM-T6	Type - Valet Parking - User able to select a parking lot type so that it can calculate the parking cost based on the selection	FAIL	High	Kevin Sugeng	Resolve	Go to <a href="http://127.0.0.1:5500/src/">http://127.0.0.1:5500/src/</a>		User should be able to see the parking cost application		Parking cost shown as \$18	PASS
						Choose Parking Lot	Valet Parking	User should be able to select valet parking from the dropdown			
						Enter entry date and time	08/28/2024 12:00	User should be able to enter entry date and time			
						Enter leaving date and time	08/28/2024 17:00	User should be able to enter leaving date and time			
						Click "Calculate" button		Parking cost should be shows as \$18			

DEFECT RETESTING AFTER RESOLVED - Functional Testing 2											
ID	Test Case Name	Previous Result	Priority	QA Name	Resolve	Test Step	Test Data	Expected Result		Actual Result	Status
SCRUM-T9	Hourly Parking - Same Entry and Exit Date/Time	FAIL	Normal	Kevin Sugeng	Resolve	Go to <a href="http://127.0.0.1:5500/src/">http://127.0.0.1:5500/src/</a>		User should be able to see the parking cost application		Parking Cost Shown \$0	PASS
						Choose Parking Lot	Hourly Parking	User should be able to select Hourly parking from the dropdown			
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to enter entry date and time			
						Enter a valid exit date and time	08/29/2024 12:00	User should be able to enter exit date and time			
						Click on the "Calculate" button.		should output "0"			
SCRUM-T10	Surface Parking - Multiple Days Duration	FAIL	Normal	Kevin Sugeng	Resolve	Go to <a href="http://127.0.0.1:5500/src/">http://127.0.0.1:5500/src/</a>		User should be able to see the parking cost application		Parking cost shown as \$60	PASS
						Choose Parking Lot	Surface Parking	User should be able to select Surface parking from the dropdown			
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to enter entry date and time			
						Enter a valid exit date and time	08/31/2024 12:00	User should be able to enter exit date and time			
						Click on the "Calculate" button.		should output \$60			
SCRUM-T17	Lot Parking - Multiple Days Duration	FAIL	Normal	Kevin Sugeng	Resolve	Go to <a href="http://127.0.0.1:5500/src/">http://127.0.0.1:5500/src/</a>		User should be able to see the parking cost application		Parking cost shown as \$54	PASS
						Choose Parking Lot	Lot Parking	User should be able to select Lot parking from the dropdown			
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to enter entry date and time			
						Enter a valid exit date and time	08/31/2024 12:00	User should be able to enter exit date and time			
						Click on the "Calculate" button.		should output \$54			
SCRUM-T18	Garage Parking - Multiple Days Duration	FAIL	Normal	Kevin Sugeng	Resolve	Go to <a href="http://127.0.0.1:5500/src/">http://127.0.0.1:5500/src/</a>		User should be able to see the parking cost application		Parking cost shown as \$72	PASS
						Choose Parking Lot	Garage Parking	User should be able to select Garage parking from the dropdown			
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to enter entry date and time			
						Enter a valid exit date and time	08/31/2024 12:00	User should be able to enter exit date and time			
						Click on the "Calculate" button.		should output \$72			
SCRUM-T20	Valet Parking - Multiple Days Duration	FAIL	Normal	Kevin Sugeng	Resolve	Go to <a href="http://127.0.0.1:5500/src/">http://127.0.0.1:5500/src/</a>		User should be able to see the parking cost application		Parking cost shown as \$36	PASS
						Choose Parking Lot	Valet Parking	User should be able to select Valet parking from the dropdown			
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to enter entry date and time			
						Enter a valid exit date and time	08/31/2024 12:00	User should be able to enter exit date and time			
						Click on the "Calculate" button.		should output \$36			
SCRUM-T24	Valet Parking - Same Entry and Exit Date/Time	FAIL	Normal	Kevin Sugeng	Resolve	Go to <a href="http://127.0.0.1:5500/src/">http://127.0.0.1:5500/src/</a>		User should be able to see the parking cost application		Parking cost shown as \$0	PASS
						Choose Parking Lot	Valet Parking	User should be able to select Valet parking from the dropdown			
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to enter entry date and time			
						Enter a valid exit date and time	08/29/2024 12:00	User should be able to enter exit date and time			
						Click on the "Calculate" button.		should output \$0			
SCRUM-T29	Lot Parking - Edge case - One minute duration	FAIL	Normal	Kevin Sugeng	Resolve	Go to <a href="http://127.0.0.1:5500/src/">http://127.0.0.1:5500/src/</a>		User should be able to see the parking cost application		Parking cost shown as \$2	PASS
						Choose Parking Lot	Lot Parking	User should be able to select Lot parking from the dropdown			
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to enter entry date and time			
						Enter a valid exit date and time	08/29/2024 12:01	User should be able to enter exit date and time			
						Click on the "Calculate" button.		Should output \$2.00			
SCRUM-T30	Surface Parking - Edge case - One minute duration	FAIL	Normal	Kevin Sugeng	Resolve	Go to <a href="http://127.0.0.1:5500/src/">http://127.0.0.1:5500/src/</a>		User should be able to see the parking cost application		Parking cost shown as \$2	PASS
						Choose Parking Lot	Surface Parking	User should be able to select Surface parking from the dropdown			
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to enter entry date and time			
						Enter a valid exit date and time	08/29/2024 12:01	User should be able to enter exit date and time			
						Click on the "Calculate" button.		Should output \$2.00			
SCRUM-T32	Garage Parking - Edge case - One minute duration	FAIL	Normal	Kevin Sugeng	Resolve	Go to <a href="http://127.0.0.1:5500/src/">http://127.0.0.1:5500/src/</a>		User should be able to see the parking cost application		Parking cost shown as \$2	PASS
						Choose Parking Lot	Garage Parking	User should be able to select Garage parking from the dropdown			
						Enter a valid entry date and time	08/29/2024 12:00	User should be able to enter entry date and time			
						Enter a valid exit date and time	08/29/2024 12:01	User should be able to enter exit date and time			
						Click on the "Calculate" button.		Should output \$2.00			

## 5. Selenium Testing Results

During execution of test cases, Selenium was used to automate the regression and repetitive task. Result:

### Valet Parking Test

Test case 1: PASS - Result: \$12.00, Valet Parking - from 29/08/2024 9:00 to 29/08/2024 13:00

Test case 2: PASS - Result: \$0, Valet Parking - from 29/08/2024 12:00 to 29/08/2024 12:00

Test case 3: PASS - Result: \$36.00, Valet Parking - from 29/08/2024 12:00 to 31/08/2024 12:00

Test case 4: PASS - Result: Leaving date and time cannot be before Entry Date and Time, Valet Parking - from 29/08/2024 12:00 to 29/08/2024 9:00

Test case 5: PASS - Result: \$12.00, Valet Parking - from 29/08/2024 12:00 to 29/08/2024 12:01

### Hourly Parking Test

Test case 1: PASS - Result: \$6.00, Hourly Parking - from 29/08/2024 9:00 to 29/08/2024 12:00

Test case 2: PASS - Result: \$0, Hourly Parking - from 29/08/2024 12:00 to 29/08/2024 12:00

Test case 3: PASS - Result: \$24.00, Hourly Parking - from 29/08/2024 12:00 to 31/08/2024 12:00

Test case 4: PASS - Result: Leaving date and time cannot be before Entry Date and Time, Hourly Parking - from 29/08/2024 12:00 to 29/08/2024 9:00

Test case 5: PASS - Result: \$2.00, Hourly Parking - from 29/08/2024 12:00 to 29/08/2024 12:01

### Garage Parking Test

Test case 1: PASS - Result: \$6.00, Garage Parking - from 29/08/2024 9:00 to 29/08/2024 12:00

Test case 2: PASS - Result: \$0, Garage Parking - from 29/08/2024 12:00 to 29/08/2024 12:00

Test case 3: PASS - Result: \$72.00, Garage Parking - from 29/08/2024 12:00 to 31/08/2024 12:00

Test case 4: PASS - Result: Leaving date and time cannot be before Entry Date and Time, Garage Parking - from 29/08/2024 12:00 to 29/08/2024 9:00

Test case 5: PASS - Result: \$2.00, Garage Parking - from 29/08/2024 12:00 to 29/08/2024 12:01

### Surface Parking Test

Test case 1: PASS - Result: \$6.00, Surface Parking - from 29/08/2024 9:00 to 29/08/2024 12:00

Test case 2: PASS - Result: \$0, Surface Parking - from 29/08/2024 12:00 to 29/08/2024 12:00

Test case 3: PASS - Result: \$60.00, Surface Parking - from 29/08/2024 12:00 to 31/08/2024 12:00

Test case 4: PASS - Result: Leaving date and time cannot be before Entry Date and Time, Surface Parking - from 29/08/2024 12:00 to 29/08/2024 9:00

Test case 5: PASS - Result: \$2.00, Surface Parking - from 29/08/2024 12:00 to 29/08/2024 12:01

## Lot Parking Test

Test case 1: PASS - Result: \$6.00, Lot Parking - from 29/08/2024 9:00 to 29/08/2024 12:00

Test case 2: PASS - Result: \$0, Lot Parking - from 29/08/2024 12:00 to 29/08/2024 12:00

Test case 3: PASS - Result: \$54.00, Lot Parking - from 29/08/2024 12:00 to 31/08/2024 12:00

Test case 4: PASS - Result: Leaving date and time cannot be before Entry Date and Time, Lot Parking - from 29/08/2024 12:00 to 29/08/2024 9:00

Test case 5: PASS - Result: \$2.00, Lot Parking - from 29/08/2024 12:00 to 29/08/2024 12:01

Selenium automated tests confirmed that the Parking Calculator functions correctly for the test scenarios executed. All automated test cases passed after Test cycles 2, ensuring the accuracy of the website.

## 6. Defect Testing Summary

- Test Cycles Overview:
  - o Functional Testing Cycle 1: Focused on validating core functionality like parking lot selection and cost calculation for different parking types. A few issues were identified and fixed by developer and retested.
  - o Functional Testing Cycle 2: Aimed at testing specific scenarios like edge cases, date, and time validations, and making sure all previous identified were resolved. This cycles more involved on testing multiple-days iterations and scenarios where exit and entry time is the same.
- Defect Identified:
  - o A total of 9 defects were identified during Functional Testing cycle 2 which all related to incorrect parking cost calculations for specific durations and the system did not handle the edge cases properly.
- Defect Resolution:
  - o All defect were fixed and re-tested in the same cycle and after retesting, all the test cases passed successfully, confirming that the defects were resolved.
- Conclusion:
  - o Parking Calculator application has successfully passed all test cases after resolving the identified defects. The system is functioning as expected, with accurate calculations for all test scenarios, including edge cases.