# Scenario 3: Exit Carpark

## Scenario Description

When a customer wants to exit the car park they interact with the exit control pillar so that they can get out of the car park and go home.

## Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| Version # | Date | Author | Description |
| 0.1 | 21/09/2017 | Corey Schmetzer | Initial Draft |
| 1.0 | 21/09/2017 | Corey Schmetzer | Initial Version |

## Test Scripts

The following scripts will cover this scenario:

* 3.1 Paid Adhoc Ticket member
* 3.2 Unpaid Adhoc Ticket member
* 3.3 Season Ticket holder with valid ticket
* 3.4 Season ticket is not valid
* 3.5 Customer backs up
* 3.6 Exit is blocked

## Use Case

* Exit Carpark

## Test Components/Requirements

This test scenario covers the following high-level test requirements (see scripts below for specific requirements covered by each test script):

* Exit Pillar UI display appropriate messages
* A record of the ticket has been updated and stored.
* The customer has been allowed or denied exit
* The number of available spaces in the car park is incremented by one.
* A record of a usage of the season ticket has been updated and stored.
* The season ticket is now recorded as not in use.
* Script 3.1: Paid Adhoc Ticket member

### Script Description

* The car attempts to exit the carpark using a paid adhoc ticket

### Testing Requirements

This test script covers the following specific testing requirements:

* Exit Pillar UI display appropriate messages
* A record of the ticket has been updated and stored.
* The customer has been allowed exit by the gate raising
* The number of available spaces in the car park is incremented by one.

### Setup

* Carpark system is initialized. It will be allowed to hold 20 cars, 2 of which would be season ticket holders during business hours.
* Create a paid adhoc ticket object

### Teardown

* None necessary between test runs

### Script Steps

| **Step #** | **Test Action** | **Expected Results** | **Pass/ Fail** |
| --- | --- | --- | --- |
| 1 | Detection of a car on inside sensor | A car is detected on inside sensor, Exit Pillar UI displays “Insert Ticket” |  |
| 2 | Paid Adhoc Ticket barcode entered | Exit Pillar Ticket reader displays adhoc ticket barcode entered |  |
| 3 | Read Ticket button pushed | Exit Pillar UI displays “Take Processed Ticket” |  |
| 4 | Take Ticket button pushed | Gate is raised, Exit Pillar UI displays “Ticket Taken” |  |
| 5 | Car begins to exit carpark | A car is detected on both sensors, Exit Pillar UI displays “Exiting” |  |
| 6 | Car fully leaves inside of carpark | A car is not no longer detected on the inside sensor, Exit Pillar UI displays “Exited” |  |
| 7 | Car fully exits carpark | Carpark detects no cars on either sensor, Gate is lowered, Carpark decrements number of cars parked, Exit Pillar UI displays “Idle” |  |

### Test Data

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data Field | 1 | 2 | 3 | 4 |
| Adhoc Ticket | Registered and paid adhoc ticket |  |  |  |

### Test Execution

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Date/Time | Tester | Test ID | Test Phase | | Status |
| 21/09/17 12:50 am | Corey Schmetzer | A1132ede30ad5d | System Cycle 1:  Commit: a5423aa428bc45cfc00acee7a67852b328a0188d | Passed | |

Script 3.2 Unpaid Adhoc Ticket member

### Script Description

* The car attempts to exit the carpark using an unpaid adhoc ticket.

### Testing Requirements

This test script covers the following specific testing requirements:

* Exit Pillar UI display appropriate messages
* The ticket holder has not been allowed exit.

### Setup

* Carpark system is initialized. It will be allowed to hold 20 cars, 2 of which would be season ticket holders during business hours.
* Create an unpaid adhoc ticket object

### Teardown

* None necessary between test runs

### Script Steps

| **Step #** | **Test Action** | **Expected Results** | **Pass/ Fail** |
| --- | --- | --- | --- |
| 1 | Detection of a car on inside sensor | A car is detected on inside sensor, Exit Pillar UI displays “Insert Ticket” |  |
| 2 | Unpaid Adhoc Ticket barcode entered | Exit Pillar Ticket reader displays adhoc ticket barcode entered |  |
| 3 | Read Ticket button pushed | Exit Pillar UI displays “Take Rejected Ticket” |  |
| 4 | Take Ticket button pushed | Exit Pillar UI displays “Insert Ticket” |  |

### Test Data

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data Field | 1 | 2 | 3 | 4 |
| Adhoc Ticket | Created but Unpaid Ticket | Invalid and not created adhoc ticket barcode |  |  |

### Test Execution

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Date/Time | Tester | Test ID | Test Phase | | Status |
| 21/09/17 1:00pm | Corey Schmetzer | A1132ede30ae96 | Test Data 1:  Commit: a5423aa428bc45cfc00acee7a67852b328a0188d | Passed | |
| 21/09/17 1:05pm | Corey Schmetzer | A1111111111111 | Test Data 2:  Commit: a5423aa428bc45cfc00acee7a67852b328a0188d | Passed | |

Script 3.3 Season Ticket holder with valid ticket

### Script Description

* The car attempts to exit the carpark using a valid season ticket

### Testing Requirements

This test script covers the following specific testing requirements:

* Exit Pillar UI display appropriate messages
* A record of a usage of the season ticket has been updated and stored.
* The season ticket is now recorded as not in use.
* The season ticket holder has been allowed exit.

### Setup

* Carpark system is initialized. It will be allowed to hold 20 cars, 2 of which would be season ticket holders during business hours.
* Create an season ticket

### Teardown

* None necessary between test runs

### Script Steps

| **Step #** | **Test Action** | **Expected Results** | **Pass/ Fail** |
| --- | --- | --- | --- |
| 1 | Detection of a car on inside sensor | A car is detected on inside sensor, Exit Pillar UI displays “Insert Ticket” |  |
| 2 | Season Ticket ID entered | Exit Pillar Ticket reader displays Season Ticket ID entered |  |
| 3 | Read Ticket button pushed | Exit Pillar UI displays “Take Processed Ticket” |  |
| 4 | Take Ticket button pushed | Gate is raised, Exit Pillar UI displays “Ticket Taken” |  |
| 5 | Car begins to exit carpark | A car is detected on both sensors, Exit Pillar UI displays “Exiting” |  |
| 6 | Car fully leaves inside of carpark | A car is not no longer detected on the inside sensor, Exit Pillar UI displays “Exited” |  |
| 7 | Car fully exits carpark | Carpark detects no cars on either sensor, Gate is lowered, Carpark records usage record, updates inUse of current ticket to become false, Exit Pillar UI displays “Idle” |  |

### Test Data

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data Field | 1 | 2 | 3 | 4 |
| Season ticket | Valid season Ticket |  |  |  |

### Test Execution

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Date/Time | Tester | Test ID | Test Phase | | Status |
| 21/09/17 1:30 pm | Corey Schmetzer | S1111 | Test Data 1:  Commit: a5423aa428bc45cfc00acee7a67852b328a0188d | Passed | |

Script 3.4 Season ticket is invalid

### Script Description

* The scanned season ticket is invalid

### Testing Requirements

This test script covers the following specific testing requirements:

* Exit Pillar UI display appropriate messages
* The season ticket holder has not been allowed exit.

### Setup

* Carpark system is initialized. It will be allowed to hold 20 cars, 2 of which would be season ticket holders during business hours.
* Create a season ticket object

### Teardown

* None necessary between test runs

### Script Steps

| **Step #** | **Test Action** | **Expected Results** | **Pass/ Fail** |
| --- | --- | --- | --- |
| 1 | Detection of a car on inside sensor | A car is detected on inside sensor, Exit Pillar UI displays “Insert Ticket” |  |
| 2 | Invalid Season Ticket ID entered | Exit Pillar Ticket reader displays adhoc ticket barcode entered |  |
| 3 | Read Ticket button pushed | Exit Pillar UI displays “Take Rejected Ticket” |  |
| 4 | Take Ticket button pushed | Exit Pillar UI displays “Insert Ticket” |  |

### Test Data

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data Field | 1 | 2 | 3 | 4 |
| Season Ticket | Non registered season ticket | Registered but not in use season ticket |  |  |

### Test Execution

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Date/Time | Tester | Test ID | Test Phase | | Status |
| 21/09/17 2:00 pm | Corey Schmetzer | S3333 | Test Data 1:  Commit: a5423aa428bc45cfc00acee7a67852b328a0188d | Passed | |
| 21/09/17 2:05 pm | Corey Schmetzer | S2222 | Test Data 2:  Commit: a5423aa428bc45cfc00acee7a67852b328a0188d | Passed | |

Script 3.5 Customer backs up

### Script Description

* At any point during the exiting the car decides to back up, the exit process is cancelled and the exit controller returns to idle state

### Testing Requirements

This test script covers the following specific testing requirements:

* Exit Pillar UI display appropriate messages
* Car exitng is cancelled returning exit controller to idle without recording ticket

### Setup

* Carpark system is initialized. It will be allowed to hold 20 cars, 2 of which would be season ticket holders during business hours.
* Create an adhoc ticket

### Teardown

* None necessary between test runs

### Script Steps

| **Step #** | **Test Action** | **Expected Results** | **Pass/ Fail** |
| --- | --- | --- | --- |
| 1 | Detection of a car on inside sensor | A car is detected on inside sensor, Exit Pillar UI displays “Insert Ticket” |  |
| 2 | Paid Adhoc Ticket barcode entered | Exit Pillar Ticket reader displays adhoc ticket barcode entered |  |
| 3 | Read Ticket button pushed | Exit Pillar UI displays “Take Processed Ticket” |  |
| 4 | Take Ticket button pushed | Gate is raised, Exit Pillar UI displays “Ticket Taken” |  |
| 5 | Car backs up into carpark | Carpark detects no cars on either sensor, Gate is lowered, Carpark number of cars parked does not change ,Exit Pillar UI displays “Idle” |  |

### Test Data

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data Field | 1 | 2 | 3 | 4 |
| adhoc Ticket | Created and paid ticket Barcode |  |  |  |

### Test Execution

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Date/Time | Tester | Test ID | Test Phase | | Status |
| 21/09/17 2:45pm | Corey Schmetzer | A1132ede30c3a3 | Test Data 1:  Commit: a5423aa428bc45cfc00acee7a67852b328a0188d | Passed | |

Script 3.6 Exit is blocked

### Script Description

### A car is detected on the outside sensor, while another car is in the process of exiting but the barrier is still down

### Testing Requirements

This test script covers the following specific testing requirements:

* Exit Pillar UI display appropriate messages
* The ticket holder has not been allowed exit

### Setup

* Carpark system is initialized. It will be allowed to hold 20 cars, 2 of which would be season ticket holders during business hours.
* Create an adhoc ticket object

### Teardown

* None necessary between test runs

### Script Steps

| **Step #** | **Test Action** | **Expected Results** | **Pass/ Fail** |
| --- | --- | --- | --- |
| 1 | Detection of a car on outside sensor | Display “Blocked” on the Exit Pillar UI |  |
| 2 | Detection of a car on inside sensor | Continues to display “Blocked” on the Exit Pillar UI |  |
| 4 | Adhoc Ticket Barcode entered | Exit Pillar Ticket reader displays Adhoc Ticket Barcode |  |
| 5 | Read Ticket button pushed | Exit Pillar UI displays “Take Rejected Ticket” |  |
| 6 | Ticket Taken button pushed | Exit Pillar UI displays “Blocked” |  |
| 7 | Absence of a car on the inside sensor | Display “Issue Ticket” on the Exit Pillar UI |  |

### Test Data

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data Field | 1 | 2 | 3 | 4 |
| Adhoc Ticket | Valid adhoc ticket |  |  |  |

### Test Execution

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Date/Time | Tester | Test ID | Test Phase | | Status |
| 21/09/17 3:30 pm | Corey Schmetzer | A1132ede30c335 | Test Data 1:  Commit: a5423aa428bc45cfc00acee7a67852b328a0188d | Failed at step 6 | |
| 22/09/17 11:00 am | Corey Schmetzer | A11417b2d4fad3 | Test Data 1:  Commit: 398bd74b6729e6e8243f0fcb699e274c9bfea02e | Passed | |