# Scenario 3.1: Exit Car Park

## Scenario Description

Make sure when the Controller is in WAITING state, the car exits the car park or does not exit the car park as intended. Customer may have season or adhoc ticket holder.

## Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| Version # | Date | Author | Description |
| 0.1 | 20/09/2017 | Hai Ha Do | Initial Draft |
| 1.0 | 23/09/2017 | Hai Ha Do | Second Draft |

## Test Scripts

The following scripts will cover this scenario:

* Adhoc ticket holder – paid ticket
* Season ticket holder – valid ticket
* Adhoc ticket holder – unpaid ticket
* Season ticket holder – invalid ticket

## Use Case

Exit car park

## Test Components/Requirements

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

* Customer status (adhoc customer, season ticket holder)
* Payment status of the adhoc customer (paid, unpaid)
* Validity status of the season ticket holder (valid, invalid)

User groups

* Customers with adhoc tickets
* Customers with season tickets

## 5.1. Script 1: Adhoc Customer – paid ticket

### Short Description

The customer inserts an adhoc ticket in the exit controller, the system verify ticket and allow to the paid customer successfully exits the car park.

Testing requirements

Customer should be an adhoc ticket holder and that ticket must have been paid at the pay station and it must be no more than 15 minutes after the time the ticket was paid.

### Setup

Create adhoc ticket holder:

* An adhoc ticket issued and stored in the system.
* An adhoc ticket should be only use for this car park and it must be paid ticket.
* An adhoc ticket’s time no more than 15 minutes from start time.

### Teardown

* User clicks on Exit Inside Sensor
* Exit pillar displays "Insert Ticket" message
* Enter ticket barcodes
* Exit pillar displays message ("Take Processed Ticket"/"Take Rejected Ticket")
* User clicks on Take Ticket

### Script Steps

| **Step #** | **Test Action** | **Expected Results** | **Pass/ Fail** |
| --- | --- | --- | --- |
| 1 | User clicks on Exit Inside Sensor (green) | Controller changes to WAITING state |  |
| 2 |  | Display "Insert Ticket" message |  |
| 3 | Enter barcode of ticket on Ticket Reader, starting with "A" | Display "Take Processed Ticket" message |  |
| 4 |  | Controller changes to PROCESSED state |  |
| 5 | User clicks on Take Ticket | Gate up status (green) |  |
| 6 |  | Controller changes to TAKEN state |  |
| 7 |  | Outside Sensor detects car presence (green) |  |
| 8 | User clicks on Exit Outside Sensor detects car absence (red) | Controller changes to IDLE state |  |
| Gate down status (red) |  |
| 9 |  | Exit time for ticket is recorded |  |
| 10 |  | Number of car parked decreases by 1 |  |

## Script #3.2: Season Ticket Holder - Valid Ticket

### Script Description

A season ticket holder’s ticket verified by exit controller. System generates valid ticket message to customer and he easily exits the car park.

### Testing Requirements

This test script covers the following specific testing requirements:

Customer must be a season ticket holder and the ticket must be valid and in use.

### Setup

* A season ticket has been issued and recorded in the system.
* The season ticket is for this car park.
* The season ticket is valid.
* The season ticket is in use.

### Teardown

* The season ticket usage record is closed for this usage.

### Script Steps

| **Step #** | **Test Action** | **Expected Results** | **Pass/ Fail** |
| --- | --- | --- | --- |
| 1 | User clicks on Exit Inside Sensor (green) | Controller changes to WAITING state |  |
| 2 |  | Display "Insert Ticket" message |  |
| 3 | Enter barcode of ticket on Ticket Reader, starting with "A" | Display "Take Processed Ticket" message |  |
| 4 |  | Controller changes to PROCESSED state |  |
| 5 | User clicks on Take Ticket | Gate up status (green) |  |
| 6 |  | Controller changes to TAKEN state |  |
| 7 |  | Outside Sensor detects car presence (green) |  |
| 8 | User clicks on Exit Outside Sensor detects car absence (red) | Controller changes to IDLE state |  |
| Gate down status (red) |  |
| 9 |  | Exit time for ticket is recorded |  |
| 10 |  | Number of car parked decreases by 1 |  |

### Test Execution

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date/Time | Tester | Test ID | Test Phase | Status |
|  |  |  |  |  |

## Script #3.3: Adhoc Ticket Holder - Ticket Unpaid

### Script Description

Customer try invalid ticket on exit controller system, and user get response ‘Remove invalid Ticket’ on screen and then customer take ticket back and can see ‘Insert Ticket’ message on screen for another ticket.

### Testing Requirements

This test script covers the following specific testing requirements:

Customer should have invalid ticket because that ticket can’t be paid at paystation.

### Setup

* An adhoc ticket has been issued and keep as record in the system for validate it.
* An adhoc ticket already used for this car park and that ticket cannot be paid.

### Teardown

* An Adhoc ticket is no longer available.

### Script Steps

| **Step #** | **Test Action** | **Expected Results** | **Pass/ Fail** |
| --- | --- | --- | --- |
| 1 | Customer inserts invalid ticket | Exit controller displays ‘Invalid Ticket’ message  Exit controller displays ‘Remove Invalid Ticket’ | F |
| 2 | Customer takes ticket | Exit controller displays ‘Insert Ticket’ | N/A |

## Script #3.4: Season Ticket Customer: Ticket Not Valid

### Script Description

Invalid season ticket holder tries to put ticket in exit controller, screen displays ‘Remove Invalid Ticket’ message to the customer.

### Testing Requirements

This test script covers the following specific testing requirements:

Customer must be a season ticket holder and the ticket must be NOT valid.

### Setup

* A season ticket has been issued and saved in the system.
* A season ticket is for this car park.
* A season ticket is NOT valid.

### Teardown

* The season ticket is no longer available.

### Script Steps

| **Step #** | **Test Action** | **Expected Results** | **Pass/ Fail** |
| --- | --- | --- | --- |
| 1 | Customer inserts invalid ticket | Exit pillar displays ‘Invalid Ticket’ message  Exit pillar displays ‘Remove Invalid Ticket’ | F |
| 2 | Customer takes ticket | Exit pillar displays ‘Insert Ticket’ | N/A |