X-Reserve

Software Testing

Version 1.0

**November 16, 2009**



**Pod 1**

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Revision History

|  |  |  |
| --- | --- | --- |
| **Date** | **Version** | **Description** |
| 20-11-2009 | 1.0 | Document template |
| 26-11-2009 | 2.0 | Added Introduction |
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X-Reserve Software Testing

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# Introduction

X-Reserve is a web-based hotel reservation application that provides many hotel management features. This application can generate statistic reports to the hotel managers and allow them to manage user accounts. Hotel staffs are able to check-in customers and check-out customers. Moreover, X-Reserve provides a web-based interface for hotel guests to manage their accounts and reservations.

This test plan will be divided into three sections. The first section summaries the general environment of the application and the testing criteria of the application. This section will provide an overview of the X-Reserve system and list all the assumptions and constraints. Based on the environment of the system, all the testing criteria will be listed; also, the schedule of the test phase will be presented at the end of this section. The next two sections will present the detailed testing procedures for functional requirements and non-functional requirements. All the testing procedures will be executed many times at different development phases to ensure the accuracy and quality of the system.

# Overview

## Scope and Objectives

## Testing Criteria

## Test Cycles and Schedule

## Assumptions and Constraints

# Functional Requirements Testing

## Unit Testing

### Black Box Testing

### White Box Testing

## Integration Testing

## System Testing

### Use Case 1

**Test Case:** Create An Account (invalid input)

**Actor:** Guest

**Pre-conditions:** true

**Detailed Description:** This test case examines the functionality of creating accounts with invalid input

**Test Procedure:**1.0 Selects "Register" to apply for an account  
    2.0 Enters invalid user name or password in the corresponding fields  
        2.1 Enters only one of the fields

        2.2 Enters none of the fields

    3.0 Selects "Register" to submit the application

**Expected Results:** The system will indicate username and password fields cannot be empty

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | The system indicates username and password fields cannot be null. | Pass |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Test Case:** Create An Account (duplicate account)  
**Actor:** Guest  
**Pre-conditions:** An account with user name "user" exists  
**Detailed Description:** This test case examines the functionality of creating duplicate accounts  
**Test Procedure:**  
    1.0 Selects "Register" to apply for an account  
    2.0 Enters "user" in the user name field

    3.0 Enters a password in the password field

    4.0 Selects "Register" to submit the application  
**Expected Results:** The system will indicate username has already been used  
**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | The system indicates the username has already been used | Pass |
|  |  |  |
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**Test Case:** Create An Account (valid input)  
**Actor:** Guest  
**Pre-conditions:** Valid personal information (name & password)  
**Detailed Description:** This test case examines the functionality of creating accounts with valid input    
**Test Procedure:**  
    1.0 Selects "Register" to apply for an account  
    2.0 Enters valid user name or password in the corresponding fields

    3.0 Selects "Register" to submit the application  
**Expected Results:** The system will automatically login guest to search page

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | The new account has been succesfully created and the guest is automatically logged in | Pass |
|  |  |  |
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|  |  |  |

### Use Case 2

**Test Case:** Make a Reservation (valid input, valid payment and valid login)  
**Actor:** Guest

**Pre-conditions:** Guest logins to the system and searches for a set of rooms  
**Detailed Description:** This test case tests the functionality of making a reservation with valid input, valid payment and valid login  
**Test Procedure:**

    1.0 Selects a room and clicks the "continue reservation" button

    2.0 Enters check-in date, check-out date and number of people in the corresponding fields

    3.0 Clicks the "continue reservation" button

    4.0 After viewing the summary of the room selected and the information entered, selects a payment type from the drop down list (Visa or Master)

    5.0 Enters credit card information (credit card number, expired date, and name on the credit card)

    6.0 Clicks the confirm button  
**Expected Results:** The system will indicate that the reservation process is completed  
**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | The system indicates that the reservation process is completed | Pass |
|  |  |  |
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|  |  |  |

**Test Case:** Make a Reservation (invalid input)  
**Actor:** Guest

**Pre-conditions:** Guest logins to the system and searches for a set of rooms  
**Detailed Description:** This test case tests the functionality of making a reservation with invalid input  
**Test Procedure:**

    1.0 Selects a room and clicks the "continue reservation" button

    2.0 Enters invalid check-in date or invalid check-out date or invalid number of people in the corresponding fields

        2.1 Enters a check-in date that is before today

        2.2 Enters a check-out date that is before check-in date

        2.3 Enters a check-out date that is before today

        2.4 Enters information only in two of the fields

        2.5 Enters information only in one of the fields

        2.6 Inserts empty field

    3.0 Clicks the "continue reservation" button

**Expected Results:** The system will indicate that one or more input are invalid or missing

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | The system does not detect invalid or missing input | Fail |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Test Case:** Make a Reservation (valid input, valid login, invalid payment)  
**Actor:** Guest  
**Pre-conditions:** Guest logins to the system and searches for a set of rooms  
**Detailed Description:** This test case tests the functionality of making a reservation with valid input, valid login but invalid payment input  
**Test Procedure:**

    1.0 Selects a room and clicks the "continue reservation" button

    2.0 Enters check-in date, check-out date and number of people in the corresponding fields

    3.0 Clicks the "continue reservation" button

    4.0 After viewing the summary of the room selected and the information entered, selects a payment type from the drop down list (Visa or Master)

    5.0 Enters invalid credit card information (credit card number, expired date, and name on the credit card)

    5.1 Enters information only in two of the fields

    5.2 Enters information only in one of the fields

    5.3 Inserts empty field

    5.4 Enters a credit card number that is less than 16 digits

    5.5 Enters an expired date that is before today

    6.0 Clicks the confirm button

**Expected Results:** The system will indicate that one or more input are invalid or missing

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | The system does not detect invalid or missing input | Fail |
|  |  |  |
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|  |  |  |
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### Use Case 3

**Test Case:** Guest Cancels a Reservation  
**Actor:** Guest  
**Pre-conditions:** Guest logins to the system  
**Detailed Description:**  This test case examines the functionality of cancelling a reservation by a guest  
**Test Procedure:**

    1.0 Clicks the "view reservation(s)" button

    2.0 Selects a reservation and click the "cancel" button

    3.0 After viewing a summary of the reservation and the cancellation fee, clicks the "confirm" button

**Expected Results:** The reservation is cancelled and the fee can be viewed inside the "view bill" option

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | Not Yet Implemented | N/A |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Test Case:** Staff Cancels a Reservation  
**Actor:** Staff  
**Pre-conditions:** Staff logins to the system, requires guest information (guest name, guest address) and searches for guest information  
**Detailed Description:**  This test case examines the functionality of cancelling a reservation by a staff  
**Test Procedure:**

    1.0 Clicks the "view reservation(s)" button

    2.0 Selects a reservation and click the "cancel" button

    3.0 After viewing a summary of the reservation and the cancellation fee, click the "confirm" button

**Expected Results:** The reservation is cancelled and the fee can be viewed inside the "view bill" option of the guest

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | Not Yet Implemented | N/A |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

### Use Case 4

**Test Case:** Create Rooms (valid input)  
**Actor:** Admin  
**Pre-conditions:** Admin must be logged in to the system  
**Detailed Description:** This test case examines the functionality of creating rooms with valid input  
**Test Procedure:**  
    1.0 Selects "create room"

    2.0 Selects a room type from the "Room Type" drop down list

    3.0 Enters room number in the "Room Number" field  
    4.0 Selects "Save"  
**Expected Results:** The system will confirm the operation and the new room can be viewed inside the "view room" option

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | The system successfully creates the new room | Pass |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Test Case:** Create Rooms (duplicate room number)  
**Actor:** Admin  
**Pre-conditions:** Admin must be logged in to the system and a room with room number "110" exists  
**Detailed Description:** This test case examines the functionality of creating duplicate rooms    
**Test Procedure:**  
    1.0 Selects "create room"

    2.0 Selects a room type from the "Room Type" drop down list

    3.0 Enters "110" in the "Room Number" field  
    4.0 Selects "Save"

**Expected Results:** The system will indicate the room number has been used

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | The system indicates that the room number has been used | Pass |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Test Case:** Create Rooms (invalid input)  
**Actor:** Admin  
**Pre-conditions:** Admin must be logged in to the system  
**Detailed Description:** This test case examines the functionality of creating rooms with invalid input  
**Test Procedure:**  
    1.0 Selects "create room"

    2.0 Selects a room type from the "Room Type" drop down list

    3.0 Enters invalid input in the "Room Number" field

        3.1 Enters a negative number in the "Room Number" field

        3.2 Enters nothing in the "Room Number" field

    4.0 Selects "Save"

**Expected Results:**

        3.1 The system will display an error message saying the room number cannot be negative

        3.2 The system will display an error message saying the room number field can't be empty  
**Test Results:**

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | 3.1 The system does not display error message and created new room with invalid room number  3.2 The system displays an error message | Fail |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

### Use Case 5

**Test Case:** Edit Rooms (valid input)  
**Actor:** Admin  
**Pre-conditions:** Admin must be logged in to the system  
**Detailed Description:** This test case examines the functionality of editing rooms with valid input  
**Test Procedure:**   
    1.0 Clicks the "view rooms" button  
    2.0 Chooses a room and selects "edit"

    3.0 Selects a room type from the "Room Type" drop down list

    4.0 Enters a new room number

    5.0 Selects "Save"  
**Expected Results:** The system will update the changes to the room

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | The system successfully updates the changes to the room | Pass |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Test Case:** Edit Rooms (duplicate room number)  
**Actor:** Admin  
**Pre-conditions:** Admin must be logged in to the system and room number "110" and "111" exist  
**Detailed Description:** This test case examines the functionality of editing rooms with duplicate room number  
**Test Procedure:**   
    1.0 Clicks the "view rooms" button  
    2.0 Chooses room "110" and selects "edit"

    3.0 Selects a room type from the "Room Type" drop down list

    4.0 Enters "111" in the "Room Number" field

    5.0 Selects "Save"  
**Expected Results:** The system will indicate room "111" is already exists

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | The system indicates room "111" is already exists | Pass |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Test Case:** Edit Rooms (invalid input)  
**Actor:** Admin  
**Pre-conditions:** Admin must be logged in to the system  
**Detailed Description:** This test case examines the functionality of editing rooms with invalid input  
**Test Procedure:**   
    1.0 Clicks the "view rooms" button  
    2.0 Chooses a room and selects "edit"

    3.0 Select a room type from the "Room Type" drop down list

    4.0 Enters invalid input in the "Room Number" field

        4.1 Enters a negative number in the "Room Number" field

        4.2 Enters nothing in the "Room Number" field

    5.0 Selects "Save"  
**Expected Results:**  
        4.1 The system will display an error message saying the room number cannot be negative

        4.2 The system will display an error message saying the room number field can't be empty

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | 4.1 The system does not display error message and created new room with invalid room number 4.2 The system displays an error message | Fail |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

### Use Case 6

**Test Case:** Delete Rooms  
**Actor:** Admin  
**Pre-conditions:** Admin must be logged in to the system and there must be at least a room to delete  
**Detailed Description:** This test case examines the functionality of deleting rooms  
**Test Procedure:**   
    1.0 Clicks the "view rooms" button

    2.0 Chooses a room and selects "delete"  
**Expected Results:** The system indicates that the selected room has been deleted  
**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | The system successfully deletes the selected room | Pass |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

### Use Case 7

**Test Case:** Create Room Type (valid input)  
**Actor:** Admin  
**Pre-conditions:** Admin must be logged in to the system  
**Detailed Description:** This test case examines the functionality of creating room type with valid inputs  
**Test Procedure:**   
    1.0 Selects "Create Room Type"

    2.0 Enters valid type name, description, daily rate and maximum occupancy in the corresponding fields  
    3.0 Select "save"  
**Expected Results:** The system will add a new room type

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | The system successfully created the new room type | Pass |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Test Case:** Create Room Type (invalid input)  
**Actor:** Admin  
**Pre-conditions:** Admin must be logged in to the system  
**Detailed Description:** This test case examines the functionality of creating room type with invalid inputs  
**Test Procedure:**   
    1.0 Selects "Create Room Type"

    2.0 Enters invalid inputs in the corresponding fields (type name, description, daily rate and maximum occupancy)

        2.1 Enters zero of the fields

        2.2 Enters only one of the fields

        2.3 Enters only two of the fields

        2.4 Enters only three of the fields

        2.5 Enters a negative number in the daily rate field

        2.6 Enters a string of characters in the daily rate field

        2.7 Enters a decimal number in the maximum occupancy field

        2.8 Enters a negative number in the maximum occupancy field

        2.9 Enters a string of characters in the maximum occupancy field  
    3.0 Select "save"  
**Expected Results:**

        2.1, 2.2, 2.3, 2.4 The system will indicate that one or more fields are missing

        2.5, 2.6, 2.7, 2.8, 2.9 The system will indicate that one ore more inputs are invalid

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | 2.1, 2.2, 2.3, 2.4  The system indicates that one or more fields are missing 2.5 The system does not detect the invalid input 2.6 The system displays an error message 2.7 The system displays an error message 2.8 The system does not detect the invalid input 2.9 The system displays an error message | Fail |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Test Case:** Create Room Type (duplicate room type)  
**Actor:** Admin  
**Pre-conditions:** Admin must be logged in to the system and a room type called "VIP" exists  
**Detailed Description:** This test case examines the functionality of creating duplicate room type  
**Test Procedure:**   
    1.0 Selects "Create Room Type"

    2.0 Enters "VIP" in the type name field

    3.0 Enters a description, daily rate and maximum occupancy in the corresponding fields

    4.0 Select "save"  
**Expected Results:** The system will indicate that the room type is already exists

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | The system indicates that the room type is already exists (Case Insensitive ) | Pass |
|  |  |  |
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### Use Case 8

**Test Case:** Edit Room Type (valid input)  
**Actor:** Admin  
**Pre-conditions:** Admin needs to log into admin account and there must be at least a room type to edit  
**Detailed Description:**  This test case examines the functionality of editing room type with valid input  
**Test Procedure:**  
    1.0 Selects "View Rooms Type"  
    2.0 Chooses a room type and selects "edit"

    3.0 Enters room type name, description, daily rate and Max occupancy in the corresponding fields  
    4.0 Select "save"  
**Expected Results:** The system will indicate that the operation is complete and the room type has been modified

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | The system successfully saves the changes made to the room type | Pass |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Test Case:** Edit Room Type (invalid input)  
**Actor:** Admin  
**Pre-conditions:** Admin needs to log into admin account and there must be at least a room type to edit  
**Detailed Description:**  This test case examines the functionality of editing room type with invalid input  
**Test Procedure:**  
    1.0 Selects "View Rooms Type"  
    2.0 Chooses a room type and selects "edit"  
    3.0 Enters invalid room type name, description, daily rate or Max occupancy in the input fields

        3.1 Enters zero of the fields

        3.2 Enters only one of the fields

        3.3 Enters only two of the fields

        3.4 Enters only three of the fields

        3.5 Enters a negative number in the daily rate field

        3.6 Enters a negative number in the Max occupancy field

        3.7 Enters zero in the daily rate field

        3.8 Enters zero in the Max occupancy field

        3.9 Enters a string of characters in the daily rate field

        3.10 Enters a string of characters in the Max occupancy field

    4.0 Select "save"  
**Expected Results:**

        3.1, 3.2, 3.3, 3.4 The system will indicate that one or more fields are missing

        3.5, 3.6, 3.7, 3.8, 3.9, 3.10 The system will indicate that some inputs are invalid  
**Test Results:**  
        3.1, 3.2, 3.3, 3.4 The system will indicate that one or more fields are missing  
        3.5 The system does not detect the invalid input  
        3.6 The system does not detect the invalid input  
        3.7 The system does not detect the invalid input  
        3.8 The system does not detect the invalid input  
        3.9 The system displays an error message  
        3.10 The system displays an error message

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | 3.1, 3.2, 3.3, 3.4 The system will indicate that one or more fields are missing 3.5 The system does not detect the invalid input 3.6 The system does not detect the invalid input  3.7 The system does not detect the invalid input 3.8 The system does not detect the invalid input 3.9 The system displays an error message 3.10 The system displays an error message | Fail |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

### Use Case 9

**Test Case:** Delete Room Type  
**Actor:** Admin  
**Pre-conditions:** Admin must be logged in to the system and there must be at least a room type to delete  
**Detailed Description:**  This test case examines the functionality of deleting room type  
**Test Procedure:**   
    1.0 Selects "View Room Types"  
    2.0 Chooses a room type and selects "delete"  
**Expected Results:** The system will indicate the selected room type is deleted  
**Test Results:** The system successfully deletes the selected room type

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | The system indicates username and password fields cannot be null. | Pass |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

### Use Case 10

**Test Case:** Add Chargeable Items (valid input)  
**Actor:** Admin  
**Pre-conditions:** Admin must be logged in to the system  
**Detailed Description:** This test case examines the functionality of adding chargeable items with valid input  
**Test Procedure:**   
    1.0 Selects "Create Chargeable Item"

    2.0 Enters valid item name, description, and price in the corresponding field

    3.0 Selects "Save"  
**Expected Results:** The system will indicate the new chargeable item is created

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | The system successfully creates the new chargeable item | Pass |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Test Case:** Add Chargeable Items (invalid input)  
**Actor:** Admin  
**Pre-conditions:** Admin must be logged in to the system  
**Detailed Description:** This test case examines the functionality of adding chargeable items with invalid input  
**Test Procedure:**   
    1.0 Selects "Create Chargeable Item"

    2.0 Enters invalid item name, description, and price in the corresponding field

        2.1 Enters zero of the fields

        2.2 Enters only one of the fields

        2.3 Enters only two of the fields

        2.4 Enters a negative number in the price field

        2.5 Enters a string in the price field

    3.0 Selects "Save"  
**Expected Results:**  
    2.1 The system will display an error message saying one or more field is missing  
    2.2 The system will display an error message saying one or more field is missing  
    2.3 The system will display an error message saying one or more field is missing

    2.4 The system will indicate the input is invalid  
    2.5 The system will indicate the input is invalid

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | 2.1 The system does not detect the invalid input  2.2 The system does not detect the invalid input  2.3 The system does not detect the invalid input  2.4 The system does not detect the invalid input 2.5 The system displays an error message | Fail |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Test Case:** Add Chargeable Items (duplicate item)  
**Actor:** Admin  
**Pre-conditions:** Admin must be logged in to the system and a chargeable item named "Item1" exists  
**Detailed Description:** This test case examines the functionality of adding duplicate chargeable items  
**Test Procedure:**   
    1.0 Selects "Create Chargeable Item"

    2.0 Enters "Item1" in the item name field

    3.0 Enters a description and price in the corresponding field

    4.0 Selects "Save"  
**Expected Results:** The system will indicate that "Item1" has already existed

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | The system does not detect the duplicate chargeable item name (detects SKU duplicity ) | Fail |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Test Case:** Edit Chargeable Items (valid input)  
**Actor:** Admin  
**Pre-conditions:** Admin must be logged in to the system  
**Detailed Description:** This test case examines the functionality of editing chargeable items with valid input  
**Test Procedure:**   
    1.0 Selects "View Chargeable Item"  
    2.0 Chooses an item and selects "edit"

    3.0 Enters a new valid item name, description, and price in the corresponding field

    4.0 Selects "complete"  
**Expected Results:** The system will indicate the operation is completed

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | The system successfully saves the changes made to the selected chargeable item | Pass |
|  |  |  |
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**Test Case:** Edit Chargeable Items (invalid input)  
**Actor:** Admin  
**Pre-conditions:** Admin must be logged in to the system  
**Detailed Description:** This test case examines the functionality of editing chargeable items with invalid input  
**Test Procedure:**   
    1.0 Selects "View Chargeable Item"  
    2.0 Chooses an item and selects "edit"

    3.0 Enters invalid input in the price field

        3.1 Enters a negative number in the price field

    4.0 Selects "complete"  
**Expected Results:** The system will indicate the price cannot be zero  
**Test Results:** The system does not detect the invalid input

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | The system indicates username and password fields cannot be null. | Pass |
|  |  |  |
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**Test Case:** Delete Chargeable Items   
**Actor:** Admin  
**Pre-conditions:** Admin needs to log into admin account  
**Detailed Description:** This test case examines the functionality of deleting chargeable items   
**Test Procedure:**   
    1.0 Selects "View Chargeable Item"  
    2.0 Chooses an item and selects "delete"  
**Expected Results:** The system will indicate the selected chargeable item is deleted  
**Test Results:** The system successfully deletes the selected chargeable item

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | The system indicates username and password fields cannot be null. | Pass |
|  |  |  |
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### Use Case 11

**Test Case:** Charge Chargeable Items (valid input)  
**Actor:** Staff  
**Pre-conditions:** Staff logins to the system and searches for a customer  
**Detailed Description:** This test case examines the functionality of charging chargeable items with valid input  
**Test Procedure:**

    1.0 Clicks the "Add Chargeable Item" button

    2.0 Select a chargeable item from the drop down list

    3.0 Enters a positive quantity in the "Quantity" field

    4.0 After viewing the total amount of the chargeable items, clicks the "complete" button  
**Expected Results:** The system indicate the operation is completed and the modified bill can be viewed in the "view bill" option

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | Not yet implemented | N/A |
|  |  |  |
|  |  |  |
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**Test Case:** Charge Chargeable Items (invalid input)  
**Actor:** Staff  
**Pre-conditions:** Staff must be logged in to the system  
**Detailed Description:** This test case examines the functionality of charging chargeable items with invalid input  
**Test Procedure:**

    1.0 Clicks the "Add Chargeable Item" button

    2.0 Select a chargeable item from the drop down list

    3.0 Enters invalid input in the "Quantity" field

        3.1 Enters a negative number

        3.2 Enters nothing

    4.0 After viewing the total amount of the chargeable items, clicks the "complete" button  
**Expected Results:**

        3.1 The system will indicate that the quantity cannot be negative

        3.2 The system will indicate that the quantity field cannot be empty

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | Not yet implemented | N/A |
|  |  |  |
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### Use Case 12

**Test Case:** Check-in  
**Actor:** Staff  
**Pre-conditions:** Staff must be logged in to the system  
**Detailed Description:** This test case examines the functionality of checking in  
**Test Procedure:**

    1.0 clicks the "check-in" button

    2.0 enters customer name, customer phone number, customer address

    3.0 clicks the "search" button

    4.0 after viewing a list of reservations by that customer, select one reservation and clicks "continue"

    5.0 after viewing a summary of the reservation, clicks the "complete" button  
**Expected Results:** The system will indicate that the check-in process is completed, and the reservation in the customer's account will be gone

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | Not yet implemented | N/A |
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### Use Case 13

**Test Case:** Check-out (pay by cash)  
**Actor:** Staff  
**Pre-conditions:** Staff must be logged in to the system  
**Detailed Description:** This test case examines the functionality of checking out  
**Test Procedure:**

    1.0 clicks the "check-out" button

    2.0 enters customer name, customer phone number and customer address

    3.0 clicks the "search" button

    4.0 after viewing a list of transactions by that customer, select one transaction and clicks "continue"

    5.0 after viewing a summary of the transaction, clicks the "continue" button

    6.0 selects "cash" as the payment type

    7.0 enters the amount of cash the customer gives and clicks the "continue" button

    7.0 after viewing the changes needed to give the customer, clicks the "complete" button  
**Expected Results:** The system will indicate that the check-out process is completed

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | Not yet implemented | N/A |
|  |  |  |
|  |  |  |
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**Test Case:** Check-out (pay by credit card)  
**Actor:** Staff  
**Pre-conditions:** Staff must be logged in to the system  
**Detailed Description:** This test case examines the functionality of checking out  
**Test Procedure:**

    1.0 clicks the "check-out" button

    2.0 enters customer name, customer phone number and customer address

    3.0 clicks the "search" button

    4.0 after viewing a list of transactions by that customer, select one transaction and clicks "continue"

    5.0 after viewing a summary of the transaction, clicks the "continue" button

    6.0 selects "credit card" as the payment type

    7.0 clicks the "complete" button  
**Expected Results:** The system will indicate that the check-out process is completed

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | Not yet implemented | N/A |
|  |  |  |
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### Use Case 14

**Test Case:** Check Dirty Rooms   
**Actor:** Staff  
**Pre-conditions:** Staff logins to the system   
**Detailed Description:** This test case examines the functionality of checking dirty rooms  
**Test Procedure:**

    1.0 clicks the "view dirty rooms" button

**Expected Results:** The system will display a set of rooms that is dirty

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | Not yet implemented | N/A |
|  |  |  |
|  |  |  |
|  |  |  |
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### Use Case 15

**Test Case:** Mark Clean Rooms   
**Actor:** Staff  
**Pre-conditions:** Staff logins to the system  
**Detailed Description:** This test case examines the functionality of marking clean rooms   
**Test Procedure:**

    1.0 clicks the "view dirty rooms" button

    2.0 selects a room

    3.0 clicks the "mark it as clean" button

    4.0 after viewing the summary of that room, clicks the "confirm" button  
**Expected Results:** the system will display a confirm message - "the selected room has been marked as clean"

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | Not yet implemented | N/A |
|  |  |  |
|  |  |  |
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### Use Case 16

**Test Case:** View Statistic Report (valid input)   
**Actor:** Admin  
**Pre-conditions:** Admin must be logged in to the system  
**Detailed Description:** This test case examines the functionality of viewing statistic report with valid input  
**Test Procedure:**

    1.0 Clicks the "view report" button

    2.0 Selects a report type from the "Report Type" drop down list

    3.0 Enters a starting date and an ending date

    4.0 Clicks the "View" button  
**Expected Results:** The system will display the report calculated based on the period provided

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | Not yet implemented | N/A |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Test Case:** View Statistic Report (invalid input)  
**Actor:** Admin  
**Pre-conditions:** Admin must be logged in to the system  
**Detailed Description:** This test case examines the functionality of viewing statistic report with invalid input  
**Test Procedure:**

    1.0 Clicks the "view report" button

    2.0 Selects a report type from the "Report Type" drop down list

    3.0 Enters a invalid starting date or a invalid ending date

        3.1 Enters an ending date that is before the starting date

    4.0 Clicks the "View" button  
**Expected Results:** The system will indicate the period provided is undefined  
**Test Results:** ( Not yet implemented )

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | The system indicates username and password fields cannot be null. | Pass |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

### Search Functions

**Test Case:** Search for a set of rooms  
**Actor:** Guest or Staff or Admin  
**Pre-conditions:** true  
**Detailed Description:**  This test case examines the functionality of searching for a set of rooms  
**Test Procedure:**  
    1.0 Selects "Home" to be linked to search function  
    2.0 Specifies a price range

    3.0 Enters number of entries

    4.0 Enters number of beds required

    5.0 Selects a room type from the drop down list

    6.0 Enters check-in date and check-out date

    7.0 Selects "Search" to search for the rooms

**Expected Results:** The system will display a set of rooms according to the specification

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | Not yet implemented | N/A |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Test Case:** Staff searches for guest information (valid input)

**Actor:** Staff  
**Pre-conditions:** Staff logins to the system  
**Detailed Description:**  This test case examines the functionality of retrieving a guest's information by a staff  
**Test Procedure:**

    1.0 Enters guest name and guest address in the search bar

    2.0 Clicks the "search" button

    3.0 Clicks the "view account" button  
**Expected Results:** The system will display the guest's account information

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | Not yet implemented | N/A |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Test Case:** Staff searches for guest information (invalid input)

**Actor:** Staff  
**Pre-conditions:** Staff logins to the system  
**Detailed Description:**  This test case examines the functionality of retrieving a guest's information by a staff  
**Test Procedure:**

    1.0 Enters invalid guest information (guest name and guest address) in the search bar

        1.1 Enters only one of the fields

        1.2 Leaves all the fields empty

        1.3 Enters an incorrect guest name

        1.4 Enters an incorrect guest address

        1.5 Enters incorrect guest name and incorrect guest address

    2.0 Clicks the "search" button

**Expected Results:** The system will indicate that "no user is found" or "one or more fields are missing"

**Test Results:**

|  |  |  |
| --- | --- | --- |
| Date | Result | Pass/Fail |
| Oct 2, 2009 | Not yet implemented | N/A |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

# Non-functional Requirements

## Performance

## Usability

## Reliability

## Security

## Adaptability