# System Implementation & Test (SIT)

## Introduction

### System Overview

This section provides in detail all necessary information about test plans, test cases, test result, test environments, pass/fail criteria and risks estimations as well as a checklist to cover all possible cases of ORS system.

### Test Approach

Goal: Check all the features in ORS system and record remain bug to fix.

Type: White box testing, Black-box testing.

Size: System Component.

Technique: Check list.

## Database Relationship Diagram

### Physical Diagram

### Data Dictionary

## Performance Measures

### Clustering Performance

## Test Plan

### Features to be tested

We will carry out test based on core workflow of system. All main functions will be tested carefully and clearly following phases.

* Guest:
* Customer:
* Admin:
* Manager:
* Staff

### Features not to be tested

* Login, Logout.

## System Testing Test Case

### Customer Test Case

#### Request Return Contract

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Test Case Procedure** | **Inter-test Case Dependence** | **Expected output** | **Result** | **Test Date** | **Note** |
| RRC01 | Custom request return contract | 1 – On home page, click “**Hợp đồng của bạn**”  2 – Click “**Chi tiết**” on the screen  3 – Click “**Hủy hợp đồng trước hạn**” button  4 – Click “**Đồng ý**” button |  | - After step 1, go to list contract page  - After step 2, go to contract detail page  - After step 4, show message “**Đã gửi yêu cầu hủy hợp đồng trước hạn**” | Passed | 24/07/2015 |  |
| RRC02 | Custom can’t request return contract when contract expire | 1 – On home page, click “**Hợp đồng của bạn**” |  | - After step 1, go to list contract page  - The contract has expired will not appear in the list | Passed | 24/07/2015 |  |
| RRC03 | Custom can’t request return contract when contract is in the condition of being requested for return | 1 – On home page, click “**Hợp đồng của bạn**”  2 – Click “**Chi tiết**” on the screen |  | - After step 1, go to list contract page  - After step 2, go to contract detail page  - The screen show info “**Đang yêu cầu hủy hợp đồng trước hạn”** | Passed | 24/07/2015 |  |

Table 1: Request Return Contract Test Case

#### Request Extend Contract

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Test Case Procedure** | **Inter-test Case Dependence** | **Expected output** | **Result** | **Test Date** | **Note** |
| REC01 | Custom request extend contract | 1 – On home page, click “**Hợp đồng của bạn**”  2 – Click “**Chi tiết**” on the screen  3 – Click “**Gia hạn hợp đồng**” button  4 – Click “**Đồng ý**” button |  | - After step 1, go to list contract page  - After step 2, go to contract detail page  - After step 4, show message “**Đã gửi yêu cầu gia hạn hợp đồng**” | Passed | 24/07/2015 |  |
| REC02 | Custom can’t request extend contract when contract expire | 1 – On home page, click “**Hợp đồng của bạn**” |  | - After step 1, go to list contract page  - The contract has expired will not appear in the list | Passed | 24/07/2015 |  |
| REC03 | Custom can’t request extend contract when contract is in the condition of being requested for extend | 1 – On home page, click “**Hợp đồng của bạn**”  2 – Click “**Chi tiết**” on the screen |  | - After step 1, go to list contract page  - After step 2, go to contract detail page  - The screen show info “**Đang yêu cầu gia hạn hợp đồng”** | Passed | 24/07/2015 |  |

Table 2: Request Extend Contract Test Case

#### Request Repair

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Test Case Procedure** | **Inter-test Case Dependence** | **Expected output** | **Result** | **Test Date** | **Note** |
| RRP01 | Custom request repair | 1 – On home page, click “**Hợp đồng của bạn**”  2 – Click “**Chi tiết**” on the screen  3 – Click “**Yêu cầu sửa chữa**” button  4 – Fill in infomartion:   * Sửa chữa * Mô tả yêu cầu sửa chữa   5 – Click “**Gửi yêu cầu**” button |  | - After step 1, go to list contract page  - After step 2, go to contract detail page  - After step 3, go to request repair page  - After step 5, show message “**Đã gửi yêu cầu sửa chữa**” and return to contract detail page | Passed | 24/07/2015 |  |
| RRP02 | Custom can’t request repair when contract expire | 1 – On home page, click “**Hợp đồng của bạn**” |  | - After step 1, go to list contract page  - The contract has expired will not appear in the list | Passed | 24/07/2015 |  |
| RRP03 | Custom can’t request repair when contract is in the condition of being requested for return | 1 – On home page, click “**Hợp đồng của bạn**”  2 – Click “**Chi tiết**” on the screen |  | - After step 1, go to list contract page  - After step 2, go to contract detail page  - The screen doesn’t show “**Yêu cầu sửa chữa”** button. | Passed | 24/07/2015 |  |

Table 3: Request Repair Test Case

#### Request Rental

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Test Case Procedure** | **Inter-test Case Dependence** | **Expected output** | **Result** | **Test Date** | **Note** |
| RRT01 | Custom request rental | 1 – On home page, click “**Hợp đồng của bạn**”  2 – Click “**Chi tiết**” on the screen  3 – Click “**Yêu cầu thuê thiết bị**” button  4 – Input the number  5 – Click “**Thuê**” button  6 – Click “**Xem giỏ hàng**” button  7 – Input request in “**Yêu cầu của khách hàng**”  8 – Click “**Gửi yêu cầu**” button |  | - After step 1, go to list contract page  - After step 2, go to contract detail page  - After step 3, go to rental item page  - After step 5, box “**Giỏ hàng**” will show information  - After step 6, go to request rental page  - After step 8, show message “**Gửi yêu cầu thành công**” and return to home page | Passed | 24/07/2015 |  |
| RRT02 | Custom can’t request rental when contract expire | 1 – On home page, click “**Hợp đồng của bạn**” |  | - After step 1, go to list contract page  - The contract has expired will not appear in the list | Passed | 24/07/2015 |  |
| RRT03 | Custom can’t request rental when contract is in the condition of being requested for return | 1 – On home page, click “**Hợp đồng của bạn**”  2 – Click “**Chi tiết**” on the screen |  | - After step 1, go to list contract page  - After step 2, go to contract detail page  - The screen doesn’t show “**Yêu cầu thuê thiết bị”** button. | Passed | 24/07/2015 |  |

Table 4: Request Rental Test Case

### Manager Test Case

#### Assign Appointment

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Test Case Procedure** | **Inter-test Case Dependence** | **Expected output** | **Result** | **Test Date** | **Note** |
| AA01 | Manager assign task appointment for staff (system suggest staff) | 1 – On admin page, click “**Lịch hẹn**”  2 – Click icon “**Giao việc**” on first task |  | - After step 1, go to appointment page  - After step 2, the page reload and that first task doesn’t appear in tab “**Cần giao việc**” and customer receive message “Lich hen cua ban da duoc chap nhan. Hen ban vao thoi gian: “ | Passed | 24/07/2015 |  |
| AA02 | Manager assign task appointment for staff (manger choose staff) | 1 – On admin page, click “**Lịch hẹn**”  2 – Click icon “**Chi tiết**” on first task  3 – Choose staff  4 – Choose date and time  5 – Click “**Giao việc**” button |  | - After step 1, go to appointment page  - After step 2, go to appointment detail page  - After step 5, go to appointment page and that first task doesn’t appear in tab “**Cần giao việc**” and customer receive message “Lich hen cua ban da duoc chap nhan. Hen ban vao thoi gian: “ | Passed | 24/07/2015 |  |
| AA03 | Manager reassign task appointment for staff | 1 – On admin page, click “**Lịch hẹn**”  2 – Click tab “**Đã giao**”  2 – Click icon “**Chi tiết**” on first task  3 – Choose staff  4 – Choose date and time  5 – Click “**Giao việc lại**” button |  | - After step 1, go to appointment page  - After step 2, show list assigned task  - After step 3, go to appointment detail page  - After step 5, go to appointment page, tab “**Đã giao**” and that task was updated time or staff and customer receive message “Lich hen cua ban da duoc chap nhan. Hen ban vao thoi gian: “ | Passed | 24/07/2015 |  |
| AA04 | Manager reassign task appointment for staff by view calendar | 1 – On home page, click “**Quản lý thời gian nhân viên**”  2 – Click “**Xem văn phòng**” on screen  3 – Choose staff  4 – Choose date and time  5 – Click “**Giao việc lại**” button |  | - After step 1, go to list calendar page  - After step 2, go to contract detail page  - After step 5, go to appointment page, tab “**Đã giao**” and that task was updated time or staff and customer receive message “Lich hen cua ban da duoc chap nhan. Hen ban vao thoi gian: “ | Passed | 24/07/2015 |  |

Table 5: Assign Appointment Test Case

#### Cancel Appointment

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Test Case Procedure** | **Inter-test Case Dependence** | **Expected output** | **Result** | **Test Date** | **Note** |
| CA01 | Manager cancel task appointment | 1 – On admin page, click “**Lịch hẹn**”  2 – Click icon “**Chi tiết**” on first task  3 – Click “**Hủy lịch hẹn**” button  4 – Fill in “**Nhập lý do hủy**”  5 – Click “**Xác nhận hủy”** button |  | - After step 1, go to appointment page  - After step 2, go to appointment detail page  - After step 5, go to appointment page and that task appointment in tab “**Hủy**” and customer receive message “Lich hen cua ban khong duoc chap nhan. Ly do: " | Passed | 24/07/2015 |  |

Table 6: Cancel Appointment Test Case

#### Assign Repair

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Test Case Procedure** | **Inter-test Case Dependence** | **Expected output** | **Result** | **Test Date** | **Note** |
| ARP01 | Manager assign task repair for staff (system suggest staff and time) | 1 – On admin page, click “**Sửa chữa**”  2 – Click icon “**Giao việc**” on first task |  | - After step 1, go to repair page  - After step 2, the page reload and that first task doesn’t appear in tab “**Cần giao việc**” | Passed | 24/07/2015 |  |
| ARP02 | Manager assign task repair for staff (manger choose staff and time) | 1 – On admin page, click “**Sửa chữa**”  2 – Click icon “**Chi tiết**” on first task  3 – Choose staff  4 – Choose date to repair  5 – Click “**Giao việc**” button |  | - After step 1, go to repair page  - After step 2, go to repair detail page  - After step 5, go to repair page and that first task doesn’t appear in tab “**Cần giao việc**” and customer receive message "Yeu cau sua chua cua ban da duoc chap nhan. Thoi gian du kien:” | Passed | 24/07/2015 |  |
| ARP03 | Manager reassign task repair for staff | 1 – On admin page, click “**Sửa chữa**”  2 – Click tab “**Đã giao**”  2 – Click icon “**Chi tiết**” on first task  3 – Choose staff  4 – Choose date to repair  5 – Click “**Giao việc lại**” button |  | - After step 1, go to repair page  - After step 2, show list assigned task  - After step 3, go to repair detail page  - After step 5, go to repair page, tab “**Đã giao**” updated time or staff and customer receive message "Yeu cau sua chua cua ban da duoc chap nhan. Thoi gian du kien:” | Pa ssed | 24/07/2015 |  |
| ARP04 | Manager reassign task repair for staff by view calendar | 1 – On home page, click “**Quản lý thời gian nhân viên**”  2 – Click “**Sửa chữa**” on screen  3 – Choose staff  4 – Choose date to repair  5 – Click “**Giao việc lại**” button |  | - After step 1, go to list calendar page  - After step 2, go to contract detail page  - After step 5, go to repair page, tab “**Đã giao**” updated time or staff, and customer receive message "Yeu cau sua chua cua ban da duoc chap nhan. Thoi gian du kien:” | Passed | 24/07/2015 |  |

Table 7: Assign Repair Test Case

#### Cancel Repair

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Test Case Procedure** | **Inter-test Case Dependence** | **Expected output** | **Result** | **Test Date** | **Note** |
| CRP01 | Manager cancel task repair | 1 – On admin page, click “**Sửa chữa**”  2 – Click icon “**Chi tiết**” on first task  3 – Click “**Từ chối sửa chữa**” button |  | - After step 1, go to repair page  - After step 2, go to repair detail page  - After step 3, go to repair page and that task repair in tab “**Hủy**” and customer receive message "Yeu cau sua chua cua ban khong duoc chap nhan” | Passed | 24/07/2015 |  |

Table 8: Cancel Repair Test Case

#### Assign Rental

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Test Case Procedure** | **Inter-test Case Dependence** | **Expected output** | **Result** | **Test Date** | **Note** |
| ART01 | Manager assign task rental for staff (system suggest staff and time) | 1 – On admin page, click “**Thuê thiết bị**”  2 – Click icon “**Giao việc**” on first task |  | - After step 1, go to rental page  - After step 2, the page reload and that first task doesn’t appear in tab “**Cần giao việc**” and customer receive message "Yeu cau thue vat dung cua ban da duoc chap nhan. Thoi gian du kien: " | Passed | 24/07/2015 |  |
| ART02 | Manager assign task rental for staff (manger choose staff and time) | 1 – On admin page, click “**Thuê thiết bị**”  2 – Click icon “**Chi tiết**” on first task  3 – Choose staff  4 – Choose date  5 – Click “**Giao việc**” button |  | - After step 1, go to rental page  - After step 2, go to rental detail page  - After step 5, go to rental page and that first task doesn’t appear in tab “**Cần giao việc**” and customer receive message "Yeu cau thue vat dung cua ban da duoc chap nhan. Thoi gian du kien: " | Passed | 24/07/2015 |  |
| ART03 | Manager reassign task rental for staff | 1 – On admin page, click “**Thuê thiết bị**”  2 – Click tab “**Việc đã giao**”  2 – Click icon “**Chi tiết**” on first task  3 – Choose staff  4 – Choose date  5 – Click “**Giao việc lại**” button |  | - After step 1, go to rental page  - After step 2, show list assigned task  - After step 3, go to rental detail page  - After step 5, go to rental page, tab “**Việc đã giao**”, updated time or staff and customer receive message "Yeu cau thue vat dung cua ban da duoc chap nhan. Thoi gian du kien: " | Passed | 24/07/2015 |  |
| ART04 | Manager reassign task rental for staff by view calendar | 1 – On home page, click “**Quản lý thời gian nhân viên**”  2 – Click “**Thuê thiết bị**” on screen  3 – Choose staff  4 – Choose date to rental  5 – Click “**Giao việc lại**” button |  | - After step 1, go to list calendar page  - After step 2, go to contract detail page  - After step 5, go to rental page, tab “**Việc đã giao**”, updated time or staff and customer receive message "Yeu cau thue vat dung cua ban da duoc chap nhan. Thoi gian du kien: " | Passed | 24/07/2015 |  |

Table 9: Assign Rental Test Case

#### Cancel Rental

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Test Case Procedure** | **Inter-test Case Dependence** | **Expected output** | **Result** | **Test Date** | **Note** |
| CRT01 | Manager cancel task rental | 1 – On admin page, click “**Thuê thiết bị**”  2 – Click icon “**Chi tiết**” on first task  3 – Click “**Từ chối**” button |  | - After step 1, go to rental page  - After step 2, go to rental detail page  - After step 3, go to rental page and that task rental in tab “**Hủy**” and customer receive message "Yeu cau thue vat dungcua ban khong duoc chap nhan” | Passed | 24/07/2015 |  |

Table 10: Cancel Rental Test Case