**9. Test documents**

**9.1 Test Cases**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Seq.No | UC ID | Condition to be tested | Test data | Expected result | Successful |
|  | UC\_login | Log in | True username and true password | Log in success |  |
|  | UC\_login | Log in | Wrong username or wrong password | Log in failed |  |
|  | UC\_reservation | Reservation | Room is booked or being repaired | Book room unsuccessfully |  |
|  | UC\_reservation | Reservation | Empty room | Book room successfully |  |
|  | UC\_checkout | Checkout | Exactly the room used | Check-out successfully |  |
|  | UC\_checkout | Checkout | Not the room used | Check-out unsuccessfully |  |
|  | UC\_order service | Order service | Service in inventory meets requirements | Order service successfully |  |
|  | UC\_order service | Order service | Service in inventory does not meet requirements | Order service unsuccessfully |  |
|  | UC\_addroom | Add room | Room not exist | Add room successfully |  |
|  | UC\_addroom | Add room | Room existed | Add room unsuccessfully |  |
|  | UC\_delete room | Delete room | Room exist | Delete room successfully |  |
|  | UC\_delete room | Delete  room | Room is using | Delete room fail |  |
|  | UC\_edit room | Edit room | Edited room code is not duplicated in database | Edit room successfully |  |
|  | UC\_edit room | Edit room | Edited room code is duplicated in database | Edit room unsuccessfully |  |
|  | UC\_add service | Add service | Service not exist | Add service successfully |  |
|  | UC\_add service | Add service | Service existed | Can’t add service |  |
|  | UC\_delete service | Delete service | Service exist | Service deleted |  |
|  | UC\_edit service | Edit service | Service id is not duplicated | Edit service successfully |  |
|  | UC\_edit service | Edit service | Service id is duplicated | Edit service unsuccessfully |  |
|  | UC\_find room | Find room | Has that room type | Room found |  |
|  | UC\_find room | Find room | Does not have that room type | Room not found |  |
|  | UC\_create new account | Create new account | Username or password not exist | Account created |  |
|  | UC\_create new account | Create new account | Username or password existed | Create account unsuccessfully |  |
|  | UC\_change password | Change password | Password follows the rules | Password changed |  |
|  | UC\_change password | Change password | Password not follows the rules | Change password unsuccessfully |  |
|  | UC\_change regulation | Change regulation | Input data follows the rules | Regulation changed |  |
|  | UC\_change regulation | Change regulation | Input data not follows the rules | Change regulation unsuccessfully |  |
|  | UC\_turnover statistics by room type | Turnover statistics by room type | Input time matches the room lending time | Statistic |  |
|  | UC\_turnover statistics by room type | Turnover statistics by room type | Input time matches the room using time | Turnover statistics unsuccessfully |  |
|  | UC\_find customer | Find customer | Has that customer’s address  Has that customer’s name  Has that customer type  Has that room’s name  Has that customer’s ID | Customer found |  |
|  | UC\_find customer | Find Customer | Does not have that customer’s address  Does not have that customer’s name  Does not have that customer type  Does not have that room’s name  Does not have that customer’s ID | Customer not found |  |

**9.2 Test Scenario**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Seq.No | Requirement Name | Test scenario | | Test Case | |
|  |  | TS Name | TS ID | TC Name | TC ID |
| 1 | Login | OK | TS\_login\_01 | a. Verify OK with valid data | TS\_login\_01\_01 |
| b. Verify OK with invalid data | TS\_login\_01\_02 |
| Cancel | TS\_login\_02 | a. Verify Cancel with valid data | TS\_login\_02\_01 |
| b. Verify Cancel with invalid data | TS\_login\_02\_02 |
| 2 | Reservation | OK | TS\_Reservation\_01 | a. Verify OK with valid data | TS\_Reservation 01\_01 |
| b. Verify OK with invalid data | TS\_Reservation\_01\_02 |
| Cancel | TS\_Reservation\_02 | a. Verify Cancel with valid data | TS\_Reservation\_02\_01 |
| b. Verify Cancel with invalid data | TS\_Reservation\_02\_02 |
| 3 | Checkout | OK | TS\_checkout\_01 | a. Verify OK with valid data | TS\_checkout\_01\_01 |
| b. Verify OK with invalid data | TS\_checkout\_01\_02 |
| Cancel | TS\_checkout\_02 | a. Verify Cancel with valid data | TS\_checkout\_02\_01 |
| b. Verify Cancel with invalid data | TS\_checkout\_02\_02 |
| 4 | Order service | OK | TS\_orderservice\_01 | a. Verify OK with valid data | TS\_orderservice\_01\_01 |
| b. Verify OK with invalid data | TS\_orderservice\_01\_02 |
| Cancel | TS\_orderservice\_02 | a. Verify Cancel with valid data | TS\_orderservice\_02\_01 |
| b. Verify Cancel with invalid data | TS\_orderservice\_02\_02 |
| 5 | Add room | OK | TS\_addroom\_01 | a. Verify OK with valid data | TS\_addroom\_01\_01 |
| b. Verify OK with invalid data | TS\_addroom\_01\_02 |
| Cancel | TS\_addroom\_02 | a. Verify Cancel with valid data | TS\_addroom\_02\_01 |
| b. Verify Cancel with invalid data | TS\_addroom\_02\_02 |
| 6 | Edit user | OK | TS\_editroom\_01 | a. Verify OK with valid data | TS\_editroom\_01\_01 |
| b. Verify OK with invalid data | TS\_editroom\_01\_02 |
| Cancel | TS\_editroom\_02 | a. Verify Cancel with valid data | TS\_editroom\_02\_01 |
| b. Verify Cancel with invalid data | TS\_editroom\_02\_02 |
| 7 | Delete room | OK | TS\_deleteroom\_01 | a. Verify OK with valid data | TS\_deleteroom\_01\_01 |
| b. Verify OK with invalid data | TS\_deleteroom\_01\_02 |
| Cancel | TS\_deleteroom\_02 | a. Verify Cancel with valid data | TS\_deleteroom\_02\_01 |
| b. Verify Cancel with invalid data | TS\_deleteroom\_02\_02 |
| 8 | Find room | OK | TS\_findroom\_01 | a. Verify OK with valid data | TS\_findroom\_01\_01 |
| b. Verify OK with invalid data | TS\_findroom\_01\_02 |
| Cancel | TS\_findroom\_02 | a. Verify Cancel with valid data | TS\_findroom\_02\_01 |
| b. Verify Cancel with invalid data | TS\_findroom\_02\_02 |
| 9 | Add service | OK | TS\_addservice\_01 | a. Verify OK with valid data | TS\_addservice\_01\_01 |
| b. Verify OK with invalid data | TS\_addservice\_01\_02 |
| Cancel | TS\_addservice\_02 | a. Verify Cancel with valid data | TS\_addservice\_02\_01 |
| b. Verify Cancel with invalid data | TS\_addservice\_02\_02 |
| 10 | Edit service | OK | TS\_editservice\_01 | a. Verify OK with valid data | TS\_editservice\_01\_01 |
| b. Verify OK with invalid data | TS\_editservice\_01\_02 |
| Cancel | TS\_editservice\_02 | a. Verify Cancel with valid data | TS\_editservice\_02\_01 |
| b. Verify Cancel with invalid data | TS\_editservice\_02\_02 |
| 11 | Delete service | OK | TS\_deleteservice\_01 | a. Verify OK with valid data | TS\_deleteservice\_01\_01 |
| b. Verify OK with invalid data | TS\_deleteservice\_01\_02 |
| Cancel | TS\_deleteservice\_02 | a. Verify Cancel with valid data | TS\_deleteservice\_02\_01 |
| b. Verify Cancel with invalid data | TS\_deleteservice\_02\_02 |
| 12 | Create new account | OK | TS\_createnewacaccount\_01 | a. Verify OK with valid data | TS\_createnewacaccount\_01\_01 |
| b. Verify OK with invalid data | TS\_createnewacaccount\_01\_02 |
| Cancel | TS\_createnewacaccount\_02 | a. Verify Cancel with valid data | TS\_createnewacaccount\_02\_01 |
| b. Verify Cancel with invalid data | TS\_createnewacaccount\_02\_02 |
| 13 | Change password | OK | TS\_changepassword\_01 | a. Verify OK with valid data | TS\_changepassword\_01\_01 |
| b. Verify OK with invalid data | TS\_changepassword\_01\_02 |
| Cancel | TS\_changepassword\_02 | a. Verify Cancel with valid data | TS\_changepassword\_02\_01 |
| b. Verify Cancel with invalid data | TS\_changepassword\_02\_02 |
| 14 | Change regulation | OK | TS\_changeregulation\_01 | a. Verify OK with valid data | TS\_changeregulation\_01\_01 |
| b. Verify OK with invalid data | TS\_changeregulation\_01\_02 |
| Cancel | TS\_changeregulation\_02 | a. Verify Cancel with valid data | TS\_changeregulation\_02\_01 |
| b. Verify Cancel with invalid data | TS\_changeregulation\_02\_02 |
| 15 | Turnover statistics by room type | OK | TS\_turnoverstatisticsbyroomtype\_01 | a. Verify OK with valid data | TS\_turnoverstatisticsbyroomtype\_01\_01 |
| b. Verify OK with invalid data | TS\_turnoverstatisticsbyroomtype\_01\_02 |
| Cancel | TS\_turnoverstatisticsbyroomtype\_02 | a. Verify Cancel with valid data | TS\_turnoverstatisticsbyroomtype\_02\_01 |
| b. Verify Cancel with invalid data | TS\_turnoverstatisticsbyroomtype\_02\_02 |
| 16 | Find Customer | OK | TS\_ find customer \_01 | a. Verify OK with valid data | TS\_ find customer \_01\_01 |
| b. Verify OK with invalid data | TS\_ find customer \_01\_02 |
| Cancel | TS\_ find customer \_02 | a. Verify Cancel with valid data | TS\_ find customer \_02\_01 |
| b. Verify Cancel with invalid data | TS\_ find customer \_02\_02 |

**9.3 Requirement Traceability Matrix**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Seq.No | UC id | TS id | TC id | Status | Defect |
| 1 | UC\_login | TS\_login\_01 | TS\_login\_01\_01 |  |  |
| 2 | TS\_login\_01\_02 |  |  |
| 3 | TS\_login\_02 | TS\_login\_02\_01 |  |  |
| 4 | TS\_login\_02\_02 |  |  |
| 5 | UC\_reservation | TS\_Reservation\_01 | TS\_Reservation 01\_01 |  |  |
| 6 | TS\_Reservation\_01\_02 |  |  |
| 7 | TS\_Reservation\_02 | TS\_Reservation\_02\_01 |  |  |
| 8 | TS\_Reservation\_02\_02 |  |  |
| 9 | UC\_checkout | TS\_checkout\_01 | TS\_checkout\_01\_01 |  |  |
| 10 | TS\_checkout\_01\_02 |  |  |
| 11 | TS\_checkout\_02 | TS\_checkout\_02\_01 |  |  |
| 12 | TS\_checkout\_02\_02 |  |  |
| 13 | UC\_odersevice | TS\_orderservice\_01 | TS\_orderservice\_01\_01 |  |  |
| 14 | TS\_orderservice\_01\_02 |  |  |
| 15 | TS\_orderservice\_02 | TS\_orderservice\_02\_01 |  |  |
| 16 | TS\_orderservice\_02\_02 |  |  |
| 17 | UC\_addroom | TS\_addroom\_01 | TS\_addroom\_01\_01 |  |  |
| 18 | TS\_addroom\_01\_02 |  |  |
| 19 | TS\_addroom\_02 | TS\_addroom\_02\_01 |  |  |
| 20 | TS\_addroom\_02\_02 |  |  |
| 21 | UC\_editroom | TS\_editroom\_01 | TS\_editroom\_01\_01 |  |  |
| 22 | TS\_editroom\_01\_02 |  |  |
| 23 | TS\_editroom\_02 | TS\_editroom\_02\_01 |  |  |
| 24 | TS\_editroom\_02\_02 |  |  |
| 25 | UC\_deleteroom | TS\_deleteroom\_01 | TS\_deleteroom\_01\_01 |  |  |
| 26 | TS\_deleteroom\_01\_02 |  |  |
| 27 | TS\_deleteroom\_02 | TS\_deleteroom\_02\_01 |  |  |
| 1 | TS\_deleteroom\_02\_02 |  |  |
| 2 | UC\_finroom | TS\_findroom\_01 | TS\_findroom\_01\_01 |  |  |
| 3 | TS\_findroom\_01\_02 |  |  |
| 4 | TS\_findroom\_02 | TS\_findroom\_02\_01 |  |  |
| 5 | TS\_findroom\_02\_02 |  |  |
| 6 | UC\_addservice | TS\_addservice\_01 | TS\_addservice\_01\_01 |  |  |
| 7 | TS\_addservice\_01\_02 |  |  |
| 8 | TS\_addservice\_02 | TS\_addservice\_02\_01 |  |  |
| 9 | TS\_addservice\_02\_02 |  |  |
| 10 | UC\_editservice | TS\_editservice\_01 | TS\_editservice\_01\_01 |  |  |
| 11 | TS\_editservice\_01\_02 |  |  |
| 12 | TS\_editservice\_02 | TS\_editservice\_02\_01 |  |  |
| 13 | TS\_editservice\_02\_02 |  |  |
| 14 | UC\_deleteservice | TS\_deleteservice\_01 | TS\_deleteservice\_01\_01 |  |  |
| 15 | TS\_deleteservice\_01\_02 |  |  |
| 16 | TS\_deleteservice\_02 | TS\_deleteservice\_02\_01 |  |  |
| 17 | TS\_deleteservice\_02\_02 |  |  |
| 18 | UC\_createnewaccount | TS\_createnewacaccount\_01 | TS\_createnewacaccount\_01\_01 |  |  |
| 19 | TS\_createnewacaccount\_01\_02 |  |  |
| 20 | TS\_createnewacaccount\_02 | TS\_createnewacaccount\_02\_01 |  |  |
| 21 | TS\_createnewacaccount\_02\_02 |  |  |
| 22 | UC\_changepassword | TS\_changepassword\_01 | TS\_changepassword\_01\_01 |  |  |
| 23 | TS\_changepassword\_01\_02 |  |  |
| 24 | TS\_changepassword\_02 | TS\_changepassword\_02\_01 |  |  |
| 25 | TS\_changepassword\_02\_02 |  |  |
| 26 | UC\_changeregulation | TS\_changeregulation\_01 | TS\_changeregulation\_01\_01 |  |  |
| 27 | TS\_changeregulation\_01\_02 |  |  |
| 28 | TS\_changeregulation\_02 | TS\_changeregulation\_02\_01 |  |  |
| 29 | TS\_changeregulation\_02\_02 |  |  |
| 31 | UC\_turnoverstaticticsbyroom | TS\_turnoverstatisticsbyroomtype\_01 | TS\_turnoverstatisticsbyroomtype\_01\_01 |  |  |
| 32 | TS\_turnoverstatisticsbyroomtype\_01\_02 |  |  |
| 33 | TS\_turnoverstatisticsbyroomtype\_02 | TS\_turnoverstatisticsbyroomtype\_02\_01 |  |  |
| 34 | TS\_turnoverstatisticsbyroomtype\_02\_02 |  |  |
| 35 | UC\_ find customer | TS\_ find customer \_01 | TS\_find customer \_01\_01 |  |  |
| 36 | TS\_ find customer \_01\_02 |  |  |
| 37 | TS\_ find customer \_02 | TS\_ find customer \_02\_01 |  |  |
| 38 | TS\_ find customer\_ 02\_02 |  |  |

**10.Tổng kết**

Phần mềm bước đầu được hoàn thành hoàn chỉnh đúng theo kế hoạch nhóm đề ra. Tuy gặp nhiều khó khăn nhưng cũng đã giải quyết tương đối ổn thõa.

* ***Bảng phân công nhiệm vụ***

|  |  |  |
| --- | --- | --- |
| **Thành viên** | **Chức vụ** | **Nhiệm vụ** |
| Trần Nam Khánh | Nhóm trưởng | * Tìm hiểu về devexpress và thiết kế giao diện * Tìm hiểu và thuyết trình trong buổi seminar về mô hình thác nước * Phân công nhiệm vụ cho các thành viên còn lại * Tìm hiểu và giải quyết vấn đề khi nhóm gặp phải khó khăn khi coding * Viết báo cáo đồ án |
| Đậu Thị Kim Dung | Thành viên | * Thiết kế database * Lập trình các chức năng chính của phần mềm * Hỗ trợ Seminar mô hình thác nước |
| Lê Trung Hiếu | Thành viên | * Lập trình một số chức năng của phần mềm * Hỗ trợ thiết kế database * Kiểm tra và rà sát lỗi phần mềm |
| Đậu Thị Thanh Huyền | Thành viên | * Hỗ trợ viết báo cáo * Kiểm tra và rà sát lỗi phần mềm |