**Use case Description**

for

**Meeting Room Booking System**

**(MRBS)**

Ver 0.1

UC3 – Booking Room Management

1. Over view diagram.



| Usecase ID | Usecase name | Actor | Source |
| --- | --- | --- | --- |

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| --- | --- | --- | --- |
| UC3.1 | Register | Booking room manager | Son Dang |
| UC3.2 | Check In | Booking room manager | Son Dang |
| UC3.3 | Check Out | Booking room manager | Son Dang |
| UC3.4 | Change Booking Room Information | Booking room manager | Son Dang |
| UC3.5 | Search Booking Information | Booking room manager | Son Dang |
| UC3.6 | Cancel Room | Booking room manager | Son Dang |
| UC3.7 | View Booking Information | Booking room manager | Son Dang |

1. Detail description.
   1. Register.

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| --- | --- | --- | --- |
| ID | **UC3.1** | | |
| Name | **Register** | | |
| Author | Son Dang | Modify by |  |
| Date |  | Update |  |
| Actor | Booking room manager | | |
| Description | Function help actor create and store request reservation. | | |
| Precondition | Signed in system with booking room manager account. | | |
| Post condition: | Store to data base a record, note borrower information, booking information. | | |
| Main flow: | 1. Select “Trang chủ” tab. 2. Press “Đặt phòng” button. 3. Program will show a window with register form. 4. Actor will use bar code reader or type borrower ID number in ID text box. 5. Actor select room, time and check to approve check box. 6. Press “Đồng ý” button. 7. System will check valid input information with database, check valid of ID number, check if that room is free. 8. Program show a window message to confirm with borrower about booking information. 9. Press “Xác nhận” button. 10. System will store to data base a record, note borrower information, booking information and close confirm window. | | |
| Alternative flow: | 1. After step 6 of main flow if system check that ID number is invalid program will show a message notice that “Mã số nhập vào không chính xác hoặc chưa được đăng kí, xin vui lòng xem xét lại”. 2. Press “Ok” button to turn back the register form. | | |
| * 1. At step 6 of main flow, if actor press “Hủy” button | | |
| * 1. After step 6 of main flow if system check that room is not free at that time, program will show a message notice that “Phòng không thể được đặt vào lúc này do đã được người khác đặt trước hoặc đang dùng, xin vui lòng chọn lại”.   2. Press “Ok” button to turn back the register form. | | |
| 1. At step 9. If borrowers change their mind, and actor press “Hủy” button. System will cancel register operation. 2. Turn back “trang chủ” tab. | | |
|  | | |
| Exception : |  | | |
| Includes: |  | | |
| Priority: | High | | |
| Business rules: | 1. Require information in register form: Borrower ID number, room number, borrow time (from, to, date), approve check box. 2. Register ID will be created automatically will following rule: <room name><check in time (in schedule)><date><month> Example: 701B12301204 that mean room 701B from 12h30 12-4 | | |

* 1. Check In.

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| --- | --- | --- | --- |
| ID | **UC3.2** | | |
| Name | **Check In** | | |
| Author | Son Dang | Modify by |  |
| Date |  | Update |  |
| Actor | Booking room manager | | |
| Description | Function help system confirm that borrower get room and key. | | |
| Precondition | Signed in system with booking room manager account.  (need update with new solution) | | |
| Post condition: | Store to database a record that borrower got the room and that room switch status from booked to busy. | | |
| Main flow: | * 1. Select “Trang chủ” tab.   2. Press “Nhận phòng” button.   3. Program will show check in form.   4. Use bar code reader or type borrower ID number in ID text box. Press enter if actor type borrower ID number.   5. System will read booking information of this ID number in database. Load to program.   6. Register ID of this borrower ID number will be show in “Mã đặt phòng” combo box.   7. Actor select a register ID, detail register information will be show in right panel automatically.   8. Press “Nhận” button to confirm.   9. Program will show message note booking information for borrower to confirm.   10. Press “Xác nhận” button to finish. | | |
| Alternative flow: | * + 1. At step 5 of main flow, if that borrower do not have any register record before, program will show message notice that “Không có ghi nhận đã đặt phòng, xin xem lại số mã người đặt”.     2. Press “Ok” button to turn back to check in form. | | |
| * + - 1. At step 8 or step 10 of main flow if actor press “Hủy” button, borrow operation will be terminate and program will turn back to “Trang chủ tab” | | |
|  | | |
| Exception : |  | | |
| Includes: |  | | |
| Priority: | High | | |
| Business rules: | * + 1. Detail information in check in form and confirm form is detail information in register form. | | |

* 1. Check Out.

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| ID | **UC3.3** | | |
| Name | **Check Out** | | |
| Author | Son Dang | Modify by |  |
| Date |  | Update |  |
| Actor | Booking room manager | | |
| Description | Function help system confirm that borrower used, release room and key. | | |
| Precondition | Signed in system with booking room manager account.  (need update with new solution) | | |
| Post condition: | Store to database a record that borrower release the room and that room switch status from busy to free or booked. | | |
| Main flow: | 1. Select “Trang chủ” tab. 2. Press “Trả phòng” button. 3. Program will show check out form. 4. Use bar code reader or type borrower ID number in ID text box. Press enter if actor type borrower ID number. 5. System will read booking information of this ID number in database. Load to program. 6. Detail register information will be show in right panel automatically. 7. Press “Trả” button to confirm. 8. Program will show message note booking information for borrower to confirm. 9. Press “Xác nhận” button to finish. | | |
| Alternative flow: | 1. At step 5 of main flow, if that borrower do not have any check in record before, program will show message notice that “Không có ghi nhận đã nhận phòng trước đó, xin xem lại số mã người đặt”. 2. Press “Ok” button to turn back to check in form.. | | |
| 1. At step 7 or step 9 of main flow if actor press “Hủy” button, borrow operation will be terminate and program will turn back to “Trang chủ tab”. | | |
|  | | |
| Exception : |  | | |
| Includes: |  | | |
| Priority: | High | | |
| Business rules: | * + - 1. Detail information in check in form and confirm form is detail information in register form. | | |

* 1. Change Booking Room Information.

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| --- | --- | --- | --- |
| ID | **UC3.4** | | |
| Name | **Change Booking Room Information** | | |
| Author | Son Dang | Modify by |  |
| Date |  | Update |  |
| Actor | Booking room manager | | |
| Description | Function help actor can change register information as borrower want. | | |
| Precondition | Signed in system with booking room manager account. | | |
| Post condition: | Make a change to register record of borrower in database. | | |
| Main flow: | 1. Select “Trang chủ” tab. 2. Press “Đổi phòng” button. 3. Program will show check out form. 4. Use bar code reader or type borrower ID number in ID text box. Press enter if actor type borrower ID number. 5. System will read booking information of this ID number in database. Load to program. 6. Register ID of this borrower ID number will be show in “Mã đặt phòng” combo box. 7. Actor select a register ID, detail register information will be show in right panel automatically. 8. Actor will change register information in bottom panel. 9. Press “Đồng ý” button to confirm. 10. Program will show message note new booking information for borrower to confirm. 11. Press “Xác nhận” button to finish | | |
| Alternative flow: | 1. At step 5 of main flow, if that borrower do not have any register record before, program will show message notice that “Không có ghi nhận đã đặt phòng, xin xem lại số mã người đặt”. 2. Press “Ok” button to turn back to check in form | | |
| * + - * 1. At step 9 or step 11 of main flow if actor press “Hủy” button, change booking room operation will be terminate and program will turn back to “Trang chủ tab” | | |
|  | | |
| Exception : |  | | |
| Includes: |  | | |
| Priority: | High | | |
| Business rules: |  | | |

* 1. Search Booking Information.

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| ID | **UC3.5** | | |
| Name | **Search Booking Information** | | |
| Author | Son Dang | Modify by |  |
| Date |  | Update |  |
| Actor | Booking room manager | | |
| Description | Function help actor can search free room or free time of a room and show result. | | |
| Precondition | Signed in system with booking room manager account. | | |
| Post condition: | Show the searching result | | |
| Main flow: | * 1. Select “Trang chủ” tab.   2. Have 2 way to search. Search rooms are free at present and search rooms are free in input time.   3. Type key word or select time want to find.   4. Press “Tìm” button.   5. System will find in data base and show result in main screen. | | |
| Alternative flow: | * + 1. If system cannot find any record in database, program will show a message notice that “không tìm thấy kết quả nào phù hợp”.     2. Press “ok” button to finish. | | |
|  | | |
|  | | |
| Exception : |  | | |
| Includes: |  | | |
| Priority: | High | | |
| Business rules: |  | | |

* 1. Cancel Room.

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| --- | --- | --- | --- |
| ID | **UC3.6** | | |
| Name | **Cancel Room** | | |
| Author | Son Dang | Modify by |  |
| Date |  | Update |  |
| Actor | Booking room manager | | |
| Description | Function help actor can cancel a register of borrower. | | |
| Precondition | Signed in system with booking room manager account. | | |
| Post condition: | Delete register record in database. | | |
| Main flow: | 1. Select “Trang chủ” tab. 2. Press “Hủy phòng” button. 3. Program will show check in form. 4. Use bar code reader or type borrower ID number in ID text box. Press enter if actor type borrower ID number. 5. System will read booking information of this ID number in database. Load to program. 6. Register ID of this borrower ID number will be show in “Mã đặt phòng” combo box. 7. Actor select a register ID, detail register information will be show in right panel automatically. 8. Press “Đồng ý” button to confirm. 9. Program will show message note booking information for borrower to confirm. 10. Press “Xác nhận” button to finish. | | |
| Alternative flow: | 1. At step 5 of main flow, if that borrower do not have any register record before, program will show message notice that “Không có ghi nhận đã đặt phòng, xin xem lại số mã người đặt”. 2. Press “Ok” button to turn back to check in form. | | |
| 1. At step 8 or step 10 of main flow if actor press “Hủy” button, cancel operation will be terminate and program will turn back to “Trang chủ tab” | | |
|  | | |
| Exception : |  | | |
| Includes: |  | | |
| Priority: | High | | |
| Business rules: |  | | |