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**Hotel Smart Reservation: Use Case Description**

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| **Use Case Number: 1** | | |
| **Name**  User Register | | |
| **Brief description** This use case allows the admin to create profiles for each staff | | |
| **Actor**  Admin | | |
| **Precondition:** The admin must log in to the system. | | |
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| **Flow of Events:** | | |
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| **1.1 Create Staff Profile** | | |
| **Step** | **User Action** | **System Actions** |
| 1 | The admin calls the create new staff profile command. | The system displays the staff profile form with the fields for name, email username, password and position and Id. |
| 2 | The admin fills out the form and requests the system to save the details. | The system verifies the uniqueness of the user in database and returns the message about new profile creation. |
| **Postcondition:** | | |
| A new staff profile is persisted in the system | | |
| **Business Rule:** | | |
| No duplicate profile, uniqueness is defined by distinct username and user-Id. | | |
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| **1.2** **Read/View Staff Profile** | | |
| **Step** | **User Action** | **System Action** |
| 1 | Admin selects to view list of staffs. | The system returns list of staffs registered in the system. |
| 2 | The admin chooses a staff from the list. | The system returns the profile of the staff which details name, email address, username and position. |
| **Postcondition:** | | |
| The staff profile is persisted in the system | | |
| **Business Rule:** | | |
| Staff list and selection consists of staff-Id and staff name | | |
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| **1.3 Modify Staff Profile** | | |
| **Step** | **User Action** | **System Action** |
| 1 | Admin selects to view list of staffs. | The system returns list of staffs registered in the system. |
| 2 | The admin chooses a staff from the list to modify. | The system returns editable profile of the staff which details name, email address, username, password and position. |
| 3 | The admin updates the fields required to update and request system to save the modification | The system updates the record and returns the success message (or fail message on exception). |
| **Postcondition:** | | |
| The staff profile will be updated | | |
| **Business Rule:** | | |
| Name, email and user-Id should not be editable | | |
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| **1.4 Delete Staff Profile** | | |
| **Step** | **User Action** | **System Action** |
| 1 | The admin selects to view a list of staffs | The system returns list of staffs registered in the system. |
| 2 | The admin selects a profile to delete from list | The system displays a confirmation dialogue window |
| 3 | The admin clicks on OK on the dialog window to confirm deleting the profile | The system confirms that the staff is no more part of the system. The system returns a success/failure message upon deleting the profile from the system. |
| **Postcondition:** | | |
| The staff profile will be deleted | | |
| **Business Rule:** | | |
| The staff must not be accountable for other activity before the deletion process. | | |

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| **Use Case Number: 2** | | |
| **Name**  Log-In | | |
| **Brief description** This use case provides access to part of system to admin, staff and customer | | |
| based on their role | | |
| **Actor**  Admin, Staff, Customer | | |
| **Precondition:** The actor should have account registered in the system. | | |
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| **Flow of Events:** | | |
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| **2.1 Log-In the system** | | |
| **Step** | **User Action** | **System Actions** |
| 1 | The user selects log-in option displayed in the system | The system displays a log-in page to the user which asks to enter username, password and user-type |
| 2 | The user enters the details as expected to fill in the form. | Depending up on user type (or roll in our case) the system checks existence of the user in the specified group of user-type. The system displays success or failure message based on result of the matching criteria. The system throws index page upon successful login. |
| **Postcondition:** | | |
| User get log in the system based on his roll. | | |
| **Business Rule:** | | |
| Admin should be redirected to admin page; staff should be redirected to staff account and so as for customer too. | | |

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| **Use Case Number: 3** | | |
| **Name**  Update hotel detail | | |
| **Brief description** This use case allows the admin to manage hotel information | | |
| **Actor**  Admin | | |
| **Precondition:** The admin must log in to the system. | | |
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| **Flow of Events:** | | |
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| **3.1 Create Room Profile** | | |
| **Step** | **User Action** | **System Actions** |
| 1 | The admin calls the create new room profile command. | The system displays the room profile form with the fields for room number, number of beds, bed type, occupancy capacity, occupancy status, and links of photos of the room. |
| 2 | The admin fills out the form and requests the system to save the details. | The system verifies the uniqueness of the room in database and returns the message about new profile creation. |
| **Postcondition:** | | |
| A new room profile is persisted in the system | | |
| **Business Rule:** | | |
| No duplicate profile, uniqueness is defined by distinct room number. | | |
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| **3.2** **Read/View Room Profile** | | |
| **Step** | **User Action** | **System Action** |
| 1 | Admin selects to view list of room. | The system returns list of rooms registered in the system. |
| 2 | The admin chooses a room from the list. | The system returns the profile of the room which details room number, number of beds, bed type, occupancy capacity, occupancy status, and links of photos of the room. |
| **Postcondition:** | | |
| The room profile is persisted in the system. | | |
| **Business Rule:** | | |
| Room list and selection consists of room number. | | |
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| **3.3 Modify Room Profile** | | |
| **Step** | **User Action** | **System Action** |
| 1 | Admin selects to view list of staffs. | The system returns list of rooms registered in the system. |
| 2 | The admin chooses a room from the list to modify. | The system returns editable profile of the room which details room number, number of beds, bed type, occupancy capacity, occupancy status, and links of photos of the room. |
| 3 | The admin updates the fields required to update and request system to save the modification | The system updates the record and returns the success message (or fail message on exception). |
| **Postcondition:** | | |
| The room profile will be updated | | |
| **Business Rule:** | | |
| All attributes of the room should be editable | | |
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| **3.4 Delete Room Profile** | | |
| **Step** | **User Action** | **System Action** |
| 1 | The admin selects to view a list of staffs | The system returns list of staffs registered in the system. |
| 2 | The admin selects a profile to delete from list | The system displays a confirmation dialogue window |
| 3 | The admin clicks on OK on the dialog window to confirm deleting the profile | The system confirms that the staff is no more part of the system. The system returns a success/failure message upon deleting the profile from the system. |
| **Postcondition:** | | |
| The staff profile will be deleted | | |
| **Business Rule:** | | |
| The staff must not be accountable for other activity before the deletion process. | | |

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| **Use Case Number: 4** | | |
| **Name**  Generate Report | | |
| **Brief description** This use case provides way to generate statistical reports of rooms in the hotel | | |
| **Actor**  Admin, Staff | | |
| **Precondition:** The actor should have account registered in the system. | | |
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| **Flow of Events:** | | |
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| **4.1 Generate and View Report of Rooms** | | |
| **Step** | **User Action** | **System Actions** |
| 1 | The user selects Report option | The system returns list of option towards user to choose one among Room Status, Customer Detail and Payment Report |
| 2 | The user selects Reports of Rooms | System returns an aggregate report of rooms that shows list of all rooms along with their room details, reservation status, if reserved then check-in date, duration of stay, checkout date, customer head count and payment status. |
| 3 | The user views and/or requests system to save the report for future use. | The system saves the generated report with date and time in designated location. |
| **Postcondition:** | | |
| The room profile is persisted in the system. | | |
| **Business Rule:** | | |
| Reserved rooms must have customer and payment details. | | |
| **4.2 Generate and View Report of Customers** | | |
| **Step** | **User Action** | **System Actions** |
| 1 | The user selects Report option | The system returns list of option towards user to choose one among Room Status, Customer Detail and Payment Report |
| 2 | The user selects Customer Detail | The system returns list of customers who reserved and/or stayed in the hotel. The report includes room number assigned to the customer, number of co-occupants, check-in/out date and payment status as well. |
| 3 | The user views and/or requests system to save the report for future use. | The system saves the generated report with date and time in designated location. |
| **Postcondition:** | | |
| The customer list is persisted in the system | | |
| **Business Rule:** | | |
| Each customer must have some payment history at least for reservation. | | |

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| **Use Case Number: 5** | | |
| **Name**  View Rooms | | |
| **Brief description** This use case provides list of available room eligible to reserve for customer | | |
| **Actor**  Staff, Customer | | |
| **Precondition:** Anybody can view the unreserved or available rooms of the hotel before | | |
| reservation. | | |
| **Flow of Events:** | | |
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| **5.1 View Rooms** | | |
| **Step** | **User Action** | **System Actions** |
| 1 | The user selects View Rooms option. | The system displays list of available rooms with attributes such as bed type, number of beds, room photos etc. |
| **Post condition:** | | |
| The room status is persisted in the system | | |
| **Business Rule:** | | |
| Only the room which are not reserved or unoccupied should be enlisted in the report. | | |
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| **5.2 Reserve Room** | | |
| **Brief description:** Customer can reserve room and receptionist confirm the room reservation  Which means ‘*check in’* process of user is done by receptionists and at the same  time payment will be updated (i.e. advance payment or full payment) | | |
| **Actor:** Customer, Receptionist | | |
| **Precondition:** Any user can reserve the room if they already viewed it and like it. | | |
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| **5.3 Check-out** | | |
| **Brief description:** Customer’s checkout operation is done by the receptionist which includes  Update Payment (i.e. pay the remaining amount) | | |
| **Actor:** Receptionist | | |