Test Plan

Assignment

# **Document Control**

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# **Version History**

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| **Version** | **Release Date** | **Section** | **Amendments** |
| 1.0 | 10/4/2024 | - | - |
| 1.1 | 17/4/2024 | 2.1, 2.2 | Updated MUT and features to be tested |

# **Introduction**

## 1.1 Objective

The objective of the test is to ensure that all the components in the application are working perfectly under normal circumstances and ensure that all the bugs found are resolved so that users will be able to use the application with satisfaction. Ultimately to ensure that the Hotel Room Booking System functions are working based on the requirements and conforming to the rules of the room allocation based on the member type.

## 1.2 Scope

The test scope covers all of the major functions of the Hotel Room Booking System. All of the major functions including the allocation of member types, room allocation rules, waiting list, exclusive rewards for each member type, and the cancellation of the reservation and resolve all the bugs found during the testing phase.

## 1.3 References

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## < list down the references>

# **2.0 Test Plans**

## 2.1 Test Items

|  |  |
| --- | --- |
| **Classes** | **MUT** |
| User | setExclReward() |
| Room | checkRoom(), bookRoom(), getAvailableRooms() |
| Booking | setBooking(), cancelBooking() |
| Printer | printInfo() |
| WaitingList | addWaiting(), getWaiting(), removeWaiting() |

## 2.2 Features to be tested.

- The member type

- Exclusive reward

- Number of rooms to book and the types of rooms available (Standard, Deluxe, VIP)

- Request to fulfill

- Booking cancellation

- Waiting list

## 2.3 Features not to be tested.

- Printing the booking details

- adding users to the waiting list and removing them from the waiting list

## 2.4 Test Basis

- The requirements of the project that include the functional and the non-functional requirements.

- The UML diagrams show the data flow of the system.

- The use cases of the application.

- Conformance to the business regulations and requirements

## 2.5 Test Conditions

<list down all the test conditions>

(Default room allocation)

* VIP member: VIP Room
* Normal member: Deluxe room
* Non-member: Standard

(For VIP Member Booking)

1. To verify VIP member can make booking of maximum of 3 rooms at a time. (If VIP room is not sufficient, can combine with Deluxe/Standard rooms)
2. If VIP room is fully booked, VIP member is allocated to Deluxe Room.
3. If VIP and Deluxe Room are fully booked, Standard Room is fully booked.
4. If all Rooms are booked, VIP member is placed into VIP waiting list.
5. If VIP booked more than 3 rooms, they are placed into VIP waiting list.

(For Normal Member Booking)

1. Normal member can make booking of maximum of 2 rooms at a time. (Can be both Deluxe/ Standard rooms, or 1 VIP 1 Deluxe, or 1 VIP 1 Standard, or 1 Deluxe 1 Standard.)
2. If Deluxe Room is fully booked, normal member without exclusive reward is allocated to a Standard Room.
3. If all room types are fully booked, normal member will be placed into member waiting list.
4. Normal member with exclusive rewards can book a VIP room subjected to availability.
   1. If allocated to VIP room, the exclusive reward is marked redeemed.
   2. If VIP room is unavailable, Standard room will be allocated an the exclusive rewards remain.
5. If all the rooms are booked, normal member will be placed into member waiting list.

(For Non-member Booking)

1. Non-member can make booking of maximum of 1 room at a time.
2. If standard rooms are fully booked, non-member will be placed into normal waiting list.

(Cancellation)

1. Bookings can be cancelled.
2. If the user is on a waiting list, it will be removed from the waiting list.

(Error Handling)

1. Check for invalid input during booking.
2. System error during the booking or cancellation process.

## 2.6 Entry Criteria

1. The development team has completed coding all the features and details of the application code.

2. The development team has completed the unit testing for the individual system components.

3. The application code has been reviewed and confirmed that it is working in the real environment.

4. The availability of the test environment that is mocking the production environment

5. The test case has been developed and is available to be used for testing.

6. The test case has been reviewed and confirmed that it is feasible to be used for testing.

7. The completion of sign-off for the system to perform integration testing.

## 2.7 Exit Criteria

1. All the test cases have been executed and have passed the test.

2. There are no changes to be made to the overall application and to be confirmed as the final product after the tests.

3. All of the bugs found during the testing phase have been resolved.

4. All of the test results have been reviewed by the QA management team.

5. The system is considered to be ready for deployment in the real working environment.

6. The results of the User Acceptance Testing (UAT) are deemed satisfactory by the clients.