Use Case Specification

DMT/RM01/TMP

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| --- | --- |
| Project Code | PRJ\_HotelBookingManagement\_001 |
| Project Name | HotelBookingManagementSystem |

|  |  |  |
| --- | --- | --- |
| Prepared/Modified by | Role | Date of Preparation |
| Sai Preetha E | Test Engineer | 11-07-2018 |
| Reviewed by | Role | Date of Review |
| Xxxxxx | SME |  |
| Approved by | Role | Date of Approval |
| Yyyyyy | Test Manager |  |
| Circulation List |  | Version Number of the template: |
| Version Number | 1 |  |

<<Customer>> REVIEW HISTORY

<<Customer comments on the Use case along with the signed off is tracked here>>

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| --- | --- | --- | --- | --- | --- | --- |
| Version | <<Version number>> |  |  |  |  |  |
| Date | <<Date of Review>> |  |  |  |  |  |
| Reviewed by | << Reviewer Name>> |  |  |  |  |  |
| Reviewed UI Specification doc | << Whether UI Specification doc is reviewed >> |  |  |  |  |  |
| All Open Queries/issues closed | << Whether all the open queries and issues resolved>> |  |  |  |  |  |
| Agreement on Assumptions | <<Whether all the assumptions have been agreed upon by the customer>> |  |  |  |  |  |
| Sign Off | <<Signature>> |  |  |  |  |  |

Disclaimer:

The scope of the project ‘<<**HotelBookingManagementSystem**>>’ is restricted to the contents of this signed off use case.

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Use Case Name: Hotel bookings management system

Use Case ID: HotelBookingManagement\_001

**Brief Description:** This use case describes the process of searching for Hotel rooms and reserve them.

Actor(s)

1. User.

2. Employee.

3. Admin

Preconditions - Users

1. User after giving his user name needs to click on Check Availability for the availabity of user name.

2. User should give their security Ouestion and answer.

3. User has a valid user and active Email ID.

Flow of Events

4.1 Basic Flow

**Name:** Successful login.

Admin visits the website URL <http://ndafile:8081/Spring_Hotel/login.html> using any standard browser.

1. Admin enters his/her user name and checks the availability.
2. Admin gives the valid credentials for registration.
3. Admin clicks submit button.
4. On successful login, home page is displayed.

**Name:** Registration for Hotel Booking Management System

1. Admin visits link available on the home page.
2. Admin sign up using this link.
3. Admin adds the hotels
4. Admin delete the hotels.
5. Admin modifies the rooms availability and Special offers
6. Admin adds the room management
7. Admin delete the room management
8. Admin modifies the room management
9. Admin generates various reports like list of Hotels, bookings of specific hotel,guest list of specific hotel,

bookings for specified date.

* 1. Alternative Flows

Alternate Flow 1: Successful registration to HotelBookingManagement

**Name:** Registration for HotelBookingManagement

1. User visits link available on the home page.
2. User sign up using this link.
3. User register their details in it.
4. User login into the system using his/her credentials.
5. User search for a city.
6. User enter the no of rooms and no of members.
7. User books hotel rooms
8. User view booking status
9. System displays the message ”Thank You” message for confirming the registration.

Alternate Flow 2: Successful registration to HotelBookingManagement

**Name:** Registration for HotelBookingManagement

1. Employee visits link available.
2. Employee sign up using this link.
3. Employee register their details in it.
4. Employee login into the system using his/her credentials.
5. Employee search for a city.
6. Employee enter the no of rooms and no of members.
7. Employee books hotel rooms
8. Employee clicks on submit button.
9. Employee view booking status
10. System displays the message ”Thank You” message for confirming the registration.

4.3 Exceptional Flow

Exceptional Flow 1: Unsuccessful Booking due to invalid login(user\_id or password).

**Name:** Booking Rooms in HotelBookingManagement.

1. User visits link available on the home page.
2. User sign up using this link.
3. User register their details in it.
4. User login into the system using his/her credentials.
5. User search for a city.
6. User enter the no of rooms and no of members.
7. User books hotel rooms
8. User clicks on submit button
9. User view booking status
10. System displays the message “Invalid User\_id or Password.

Exceptional Flow 2: : Unsuccessful Booking due to Invalid city

**Name:** Booking Rooms in HotelBookingManagement

1. User visits link available on the home page.
2. User sign up using this link.
3. User register their details in it.
4. User login into the system using his/her credentials.
5. User search for a city.
6. User enter the no of rooms and no of members.
7. User books hotel rooms
8. User clicks on submit button
9. User view booking status
10. System displays the message “Invalid City”.

Exceptional Flow 3: Unsuccessful Registration due to invalid Number of Rooms

**Name:** Booking Rooms in HotelBookingManagement

1. User visits link available on the home page.
2. User sign up using this link.
3. User register their details in it.
4. User login into the system using his/her credentials.
5. User search for a city.
6. User enter the no of rooms and no of members.
7. User books hotel rooms
8. User clicks on submit button
9. User view booking status
10. System displays the message “Invalid Number of rooms”.

Exceptional Flow 4: Unsuccessful Registration due to Invalid no of members

**Name:** Booking Rooms in HotelBookingManagement

1. User visits link available on the home page.
2. User sign up using this link.
3. User register their details in it.
4. User login into the system using his/her credentials.
5. User search for a city.
6. User enter the no of rooms and no of members.
7. User books hotel rooms
8. User clicks on submit button
9. User view booking status
10. System displays the message “Invalid Number no of members”.

Exception Flow 5: Unsuccesful Registration due to Invalid Login(User\_id or Password)

**Name:** Registration for HotelBookingManagement

1. Employee visits link available.
2. Employee sign up using this link.
3. Employee register their details in it.
4. Employee login into the system using his/her credentials.
5. Employee search for a city.
6. Employee enter the no of rooms and no of members.
7. Employee books hotel rooms
8. Employee clicks on submit button.
9. Employee view booking status
10. System displays the message “Invalid Login”.

Exception Flow 6: Unsuccessful Registration due to Invalid City

**Name:** Registration for HotelBookingManagement

1. Employee visits link available.
2. Employee sign up using this link.
3. Employee register their details in it.
4. Employee login into the system using his/her credentials.
5. Employee search for a city.
6. Employee enter the no of rooms and no of members.
7. Employee books hotel rooms
8. Employee clicks on submit button.
9. Employee view booking status
10. System displays the message “Invalid City”.

Exception Flow 7: Unsuccessful Registration due to Invalid Number of rooms

**Name:** Registration for HotelBookingManagement

1. Employee visits link available.
2. Employee sign up using this link.
3. Employee register their details in it.
4. Employee login into the system using his/her credentials.
5. Employee search for a city.
6. Employee enter the no of rooms and no of members.
7. Employee books hotel rooms
8. Employee clicks on submit button.
9. Employee view booking status
10. System displays the message “Invalid Number of rooms”.

Exception Flow 8: Unsuccessful Registration due to Invalid Number of Member

**Name:** Registration for HotelBookingManagement

1. Employee visits link available.
2. Employee sign up using this link.
3. Employee register their details in it.
4. Employee login into the system using his/her credentials.
5. Employee search for a city.
6. Employee enter the no of rooms and no of members.
7. Employee books hotel rooms
8. Employee clicks on submit button.
9. Employee view booking status
10. System displays the message ”Invalid Number of Member”.

Exception Flow 9: Unsuccessful Registration due to Invalid Username or Password

**Name:** Registration for HotelBookingManagement

1. Admin visits link available on the home page.

2. Admin sign up using this link.

3. Admin adds the hotels

4. Admin delete the hotels.

5. Admin modifies the rooms availability and Special offers

6. Admin adds the room management

7. Admin delete the room management

8. Admin modifies the room management

9. Admin generates various reports like list of Hotels, bookings of specific hotel,guest list of specific hotel,

bookings for specified date.

10. System displays the message ”Invalid username or Password”.

Post Conditions

| Flow Name | Post Condition |
| --- | --- |
| Successful registration to HotelBookingManagement | System displays the message ”Thank You” message for confirming the registration. |
| Unsuccessful registration to HotelBookingManagement | System displays the message ”Invalid Mobile number”. |
| Unsuccessful registration to HotelBookingManagement | System displays the message ”User name is not unique”. |
| Unsuccessful registration to HotelBookingManagement | System displays the message ”User name is should be between 3-10 characters”. |
| Unsuccessful registration to HotelBookingManagement | System displays the message “Valid values for Password”. |
| Unsuccessful registration to HotelBookingManagement | System displays the message ”User\_name accepts only characters” . |
| Unsuccessful registration to HotelBookingManagement | System displays the message “Fill all the mandatory fields(\*)”. |
| Database Connectivity Error | The system should display an error message to the user regarding the database connectivity problem |
| Network Connectivity Error | The system should display an error message to the user regarding the network connectivity problem |
| Unsuccessful addition-Mandatory fields left blank | The system should display an error message to the admin “Fill all the mandatory fields(\*)” |
| Unsuccessful updation-Mandatory fields left blank | The system should display an error message to the admin “Fill all the mandatory fields(\*)” |
| Unsuccessful booking-Mandatory fields left blank | The system should display an error message to the admin “Fill all the mandatory fields(\*)” |
| Unsuccessful- Invalid Arrival\_Date | System should display “Invalid Arrival\_Date”. |
| Unsuccessful –Invalid Departure\_Date | System should display “Invalid Departure\_Date”. |
| Unsuccessful – Invalid City | System should display “Invalid City”. |
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Special Requirements

Performance

The user,employee should receive the mails and sms after registration for HotelBookingManagement.

Availability

* 1. Website is up and running 24\*7.
  2. Users all over the globe can access it.

USER INTERFACE:

1. The letters on Menus shall be bold and red in color.

2. The note field related to the rules to be followed should appear on top of the website.

SECURITY:

1. The system shall not allow the user to register if all the mandatory fields are not filled.

2. The system shall not allow the user to register if his/her name is not unique.

3. The system shall not allow the user to register if his/her mobile is not valid.

4. The system shall not allow the user to register if his/her email is not valid.

5. The system shall not allow the user to login if his/her credentials are not valid.

Extension Points

If the user has entered wrong data

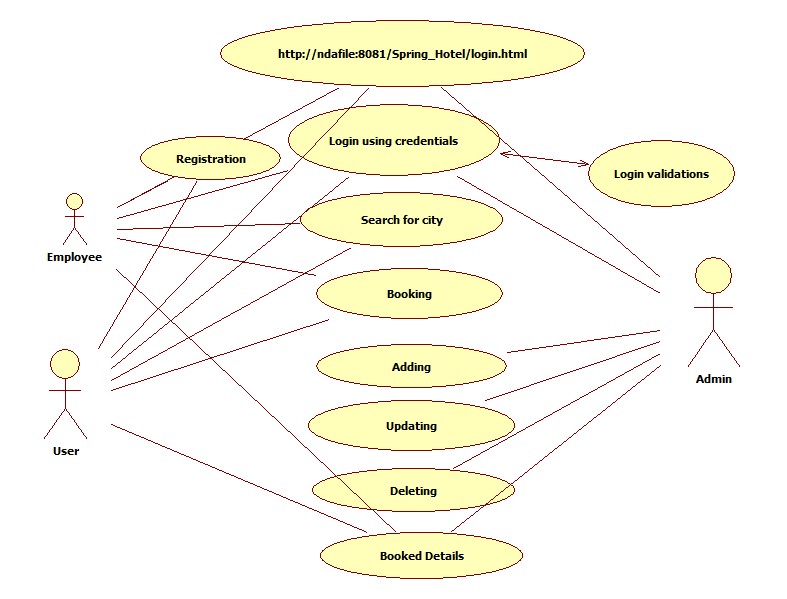
1. The system prompts the user regarding the type of error made.
2. The system does not navigate the user to new page.
3. User re-enters the correct date.
4. User re-enters the correct data.
5. The system allows the user access the site if his/her credentials are right.

Business Rules

| Business Rule Name | Business Rule Description | System action (if BR fails) |
| --- | --- | --- |
| BR01 | The sign up should be done using valid credentials | Error message is displayed if not valid |
| BR02 | The account should be active | Error message is displayed if the account is not active |
| BR03 | The user names should be Unique | Error message is displayed if same names are entered |
| BRO4 | The user should enter 10 digit mobile number | Error message is displayed if the user enters invalid mobile number. |
| BR05 | The User name should have 3-10 characters | Error message is displayed if the User name is not between 3-10 |
| BR06 | The user\_name should be only characters | Error message is displayed if the user name contain data apart from characters. |
| BR07 | Departure date should be greater than the arrival date | Error message is displayed if the departure date is less than the arrival date |

Diagrams

Use Case Diagram



10. Scenarios

Success Scenarios

* Successful registration in cheapStays.com Website.
* Successful User Activation in cheapStays.com Website.

Failure Scenarios

* Failed submission due to leaving any mandatory fields blank.
* Failed submission due to entering existing name.
* Failed submission due to entering invalid name length.
* Failed submission due to entering invalid values for gender field.
* Failed submission due to incorrect mobile number.
* Failed due to Data/Network issues.

11.Issues

1. What is to be done if web server is down?
2. What is to be done if there is data connectivity error?

12.UI Specifications

1.All the links should be in blue color.

2.All the mandatory fields should be auto focused.

13. Inter system dependencies

1. Module: If the user enters invalid credentials:

Impact: If the user tries to enter the site after entering invalid credentials he is not navigated to the site..

1. Module:If the new user enter invalid credentials

Impact: If the user enters invalid credentials he cannot be registered successfully.

14.Integration with an already existting system of the <<Customer>>

Module: User is employee of company and exists in the Customer system

Entity: Customer, applications

Information:Customer is a valid registered user who can access the site from any where using his credentials and perform various activies like booking a trip, making payments,referencing etc.

15.Assumptions

1.Only registered users can avail this service.

2.Provides trips via all modes of transportation.

REVISION HISTORY OF THE WORK PRODUCT

<to be maintained by projects>

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| --- | --- | --- | --- | --- | --- |
| # | Date | Version # | Section Changed | Details of changes made | Approved By |
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| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |