Use Case Specification

DMT/RM01/TMP

|  |  |  |
| --- | --- | --- |
| Project Code | PRJ\_HotelBookingManagementSystem\_001 |  |
| Project Name | Hotel Booking Management System |  |

|  |  |  |
| --- | --- | --- |
| Prepared/Modified by | Role | Date of Preparation |
| Batch-2 | Test Engineer | 08/01/2018 |
| Reviewed by | Role | Date of Review |
| Batch-1 | Test Engineer | 11/01/2018 |
| Approved by | Role | Date of Approval |
| Shubhangi Bharti | Senior Consultant | 15/01/2018 |
| Circulation List |  | Version Number of the template:1.1 |
| Version Number | 1.1 | 1.1 |

<<Customer>> REVIEW HISTORY

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Version |  |  |  |  |  |  |
| Date |  |  |  |  |  |  |
| Reviewed by |  |  |  |  |  |  |
| Reviewed UI Specification doc |  |  |  |  |  |  |
| All Open Queries/issues closed |  |  |  |  |  |  |
| Agreement on Assumptions |  |  |  |  |  |  |
| Sign Off | <<Signature>> |  |  |  |  |  |

Disclaimer:

The scope of the project ‘Hotel Booking Management System’ is restricted to the contents of this signed off use case.

TABLE OF CONTENTS

[1.Use Case Name: Functionalities of Employee…………………………………………………………………………………………………………..…………..5](#_Toc503338167)

[2.Actor(s)……………………………………………………………………………………………………………………….5](#_Toc503338168)

[3.Preconditions……………………………………………………………………………………………………………….5](#_Toc503338169)

[4. Flow of Events…………………………………………………………………………………………………………………………..5](#_Toc503338170)

[4.1 Basic Flow: Successful Search for Hotels and book the hotel rooms………………………………………………5](#_Toc503338171)

[4.2Alternative Flows……………………………………………………………………………………………………….….6](#_Toc503338172)

[Alternate Flow 1:………………………………………………………………………………………………………………6](#_Toc503338173)

[Alternate Flow 2: 6](#_Toc503338174)

[Exception Flow 1: Employee Enters Invalid login Credentials 6](#_Toc503338175)

[Exception Flow 1: Employee Enters Invalid login Credentials 6](#_Toc503338176)

[EXCEPTION FLOW 2: Employee Enters invalid number of Rooms To Be Booked 7](#_Toc503338177)

[EXCEPTION FLOW 3: Employee Enters invalid Number of Adults 7](#_Toc503338178)

[EXCEPTION FLOW 4: Employee Enters invalid Number of Children 7](#_Toc503338179)

[EXCEPTION FLOW 5: Webserver unavailability problem 8](#_Toc503338180)

[EXCEPTION FLOW 6: Network connectivity error 8](#_Toc503338181)

[Exception Flow 7: Database connectivity error 8](#_Toc503338182)

[5.Post Conditions……………………………………………………………………………………………………………………....8](#_Toc503338183)

[6.Special Requirements…………………………………………………………………………………………………………………..9](#_Toc503338184)

[7.Performance……………………………………………………………………………………………………………..…...9](#_Toc503338185)

[8.Availability…………………………………………………………………………………………………………………....9](#_Toc503338186)

[9.Security……………………………………………………………………………………………………………………..…9](#_Toc503338187)

[User Interface………………………………………………………………………………………………………………….9](#_Toc503338188)

[10.Extension Points………………………………………………………………………………………………………………………...…10](#_Toc503338189)

[Extension in Alternate Flow 1:………………………………………………………………………………………………………………………….……..10](#_Toc503338190)

[Extension in Alternate Flow 2:……………………………………………………………………………………………..10](#_Toc503338191)

[11.Business Rules……………………………………………………………………………………………………………………….…..10](#_Toc503338192)

[12.Diagrams………………………………………………………………………………………………………………...…11](#_Toc503338193)

[Use Case Diagram…………………………………………………………………………………………………………..11](#_Toc503338194)

[13.Scenarios……………………………………………………………………………………………………………….…11](#_Toc503338196)

[Success Scenarios 11](#_Toc503338197)

[Failure Scenarios 11](#_Toc503338198)

[14.Issues……………………………………………………………………………………………………………………….11](#_Toc503338199)

[15.UI Specifications…………………………………………………………………………………………………………………12](#_Toc503338200)

[16.Inter System Dependencies…………………………………………………………………………………………….12](#_Toc503338201)

[17.Assumptions……………………………………………………………………………………………………………..12](#_Toc503338202)

Use Case Name: Functionalities of Employee

**Use Case ID:**  UC\_HBMS\_EMPLOYEE\_01.

**Brief Description:** This Use Case describes the process by which the Employee must register to the Hotel Booking Portal site and can login to the hotel booking management system portal through internet. The Employee needs to login with the valid credentials given to him only then the Employee Homepage is loaded and then Employee can Search Hotel, book Hotel Rooms and can view the Booking Status.

This use case describes the Employee functionalities in the Hotel Booking portal.

1. Actor(s)

Employee

1. Preconditions
2. Browser should be open.
3. Employee must have an access to the Portal.
4. Flow of Events

4.1 Basic Flow: Successful Search for Hotels and book the hotel rooms.

1. Open the browser.
2. Enter the URL http://duniyaghumao.com
3. Click on login link.
4. Enter the Employee User name and Password.
5. Click on login button.
6. Click on ‘Search Hotels’ button.
7. Select the ‘Select City’.
8. Select the ‘Arrival Date’
9. Select the ‘Departure Date’
10. Click on ‘Search’
11. Select the hotel.
12. Enter the ‘No of rooms to be booked’
13. Enter ‘No of Adults’.
14. Enter ‘No of Children’.
15. Click on ‘Book now’ Button.
16. The system validates the details and successfully book the rooms.
    1. Alternative Flows

Alternate Flow 1: Successful Search for Hotels and book the hotel rooms from other standard browser.

1. Open the browser.
2. Enter the URL http://duniyaghumao.com
3. Click on login link.
4. Enter the Employee User name and Password.
5. Click on login button.
6. System validates User credentials and displays home page.
7. Click on ‘Search Hotels’ button.
8. Select the ‘Select City’.
9. Select the ‘Arrival Date’
10. Select the ‘Departure Date’
11. Click on ‘Search’
12. Select the hotel.
13. Enter ‘No of rooms to be booked’
14. Enter ‘No of Adults’.
15. Enter ‘No of Children’.
16. Click on ‘Book now’ Button.
17. System validates the details and successfully book the rooms.

Alternate Flow 2: Successful Search for Hotels and book the hotel rooms for already registered user.

1. Admin directly enters URL for Search Hotel Details as he/she is already logged in.
2. Click on ‘Search Hotels’ button.
3. Select the ‘Select City’.
4. Select the ‘Arrival Date’
5. Select the ‘Departure Date’
6. Click on ‘Search’
7. Select the hotel.
8. Enter ‘No of rooms to be booked’
9. Enter ‘No of Adults’.
10. Enter ‘No of Children’.
11. Click on ‘Book now’ Button.
12. System validates the details and successfully book the rooms

Exception Flow 1: Employee Enters Invalid login Credentials

1. Open the browser.
2. Enter the URL http://duniyaghumao.com
3. Click on login link.
4. Enter the invalid Username.
5. Enter the Password.
6. Click on login button.
7. System fails to validate the Employee login credentials failure message.

Exception Flow 1: Employee Enters Invalid login Credentials

1. Open the browser.
2. Enter the URL http://duniyaghumao.com
3. Click on login link.
4. Enter the Username.
5. Enter the invalid Password.
6. Click on login button.
7. System fails to validate the Employee login credential and receives a login failure message.

EXCEPTION FLOW 2: Employee Enters invalid number of Rooms To Be Booked

1. Open the browser.
2. Enter the URL http://duniyaghumao.com
3. Click on login link.
4. Enter the Employee User name and Password.
5. Click on login button.
6. Click on ‘Search Hotel’ button.
7. Select the ‘Select City’.
8. Select the ‘Arrival Date’
9. Select the ‘Departure Date’
10. Click on ‘Search’
11. Select the hotel
12. Click on ‘Book Now’ button.
13. Enter invalid ‘No. of Rooms to be booked’ as null/characters.
14. Enter ‘No of Adults’.
15. Enter ‘No of Children’.
16. Click on ‘Book’ Button.
17. System fails to validate the details and displays an appropriate error message.

EXCEPTION FLOW 3: Employee Enters invalid Number of Adults

1. Open the browser.
2. Enter the URL http://duniyaghumao.com
3. Click on login link.
4. Enter the Employee User name and Password.
5. Click on login button.
6. Click on ‘Search Hotel’ button.
7. Select the ‘Select City’.
8. Select the ‘Arrival Date’
9. Select the ‘Departure Date’
10. Click on ‘Search’
11. Select the hotel and Click on ‘Book Now’ link.
12. Enter invalid ‘No. of Rooms to be booked’.
13. Enter ‘No of Adults’ as null/characters.
14. Enter ‘No of Children’.
15. Click on ‘Book Now’ Button.
16. System fails to validate the details and displays an appropriate error message.

EXCEPTION FLOW 4: Employee Enters invalid Number of Children

1. Open the browser.
2. Enter the URL http://duniyaghumao.com
3. Click on login link.
4. Enter the Employee User name and Password.
5. Click on login button.
6. Click on ‘Search Hotel’ button.
7. Select the ‘Select City’.
8. Select the ‘Arrival Date’
9. Select the ‘Departure Date’
10. Click on ‘Search’
11. Select the hotel
12. Click on ‘Book Now’.
13. Enter ‘No. of Rooms to be booked’.
14. Enter ‘No of Adults’.
15. Enter ‘No of Children’ as null/characters.
16. Click on ‘Book’ Button.
17. The system fails to validate the details and displays an appropriate error message.

EXCEPTION FLOW 5: Webserver unavailability problem

1. Employee visits the URL http://duniyaghumao.com using Internet Explorer 10.0 or higher.
2. The system displays an error message regarding web server unavailability problem.

EXCEPTION FLOW 6: Network connectivity error

1. Employee visits the URL http://duniyaghumao.com using Internet Explorer 10.0 or higher.
2. The system displays error message regarding network connectivity.

Exception Flow 7: Database connectivity error

1. Employee visits the URL http://duniyaghumao.com using Internet Explorer 10.0 or higher.
2. Click on login link.
3. Enter the Employee User name and Password.
4. Click on login button.
5. System fails to find database and displays error message regarding database failure.
6. Post Conditions

| Flow Name | Post Condition |
| --- | --- |
| Successful Search for Hotels | System displays the available hotels list to the Employee based on his/her requirements |
| Successful Booking of Hotel Room By Employee | The system successfully books the hotel room to the Employee |
| Invalid Login Credentials | The system fails to validate the credentials entered by the Employee |
| Invalid number of rooms to be booked | System displays error message regarding invalid input provided by Employee during rooms selection |
| Employee enters invalid number of adults | The system fails to validate the details and displays an appropriate error message. |
| Employee enters invalid number of children | The system fails to validate the details and displays an appropriate error message. |
| Webserver unavailability problem | System displays fails to process the data because of webserver issue |
| Network connectivity error | System displays error message regarding network connectivity error. |
| Database Connectivity error | System fails to locate database |

1. Special Requirements

* Intel Pentium 4 and above Windows XP, 7
* Memory 1 GB
* Internet Explorer 10.0 or higher
* MS Office 2010 Suit or higher
* UNIX Server Connectivity

1. Performance

Employee should have good connection speed of 50kbps minimum.

1. Availability

Application should be available 24\*7 to Employee in order to access the hotel website.

1. Security
2. The system shall display the password in a masked format when they are entered by the Employee.
3. Employee login should not have admin rights.
4. After clicking back navigation button on browser it should take Employee back to the previous page.
5. After clicking on Forward on browser it should takes you forward to the next page in the list.
6. User Session should get expired if user is inactive for 10 mins.

User Interface

* 1. The letters on the menu should be bold.
  2. The active links should be displayed in red color.
  3. The visited links should be displayed in purple color.
  4. The Unvisited links should be displayed in blue color.
  5. The logout and back button should be available on every page of the application
  6. Look, feel and color of application should be proper.
  7. In case of field level validation, error messages should be displayed in red color.

1. Extension Points

Extension in Alternate Flow 1:

1. Open the browser.
2. Enter the URL <http://duniyaghumao.com>
3. Click on login link.
4. Enter the Employee User name and Password.
5. Click on login button.
6. Click on ‘Search Hotel’ button.
7. Select all the fields with valid credentials.
8. Click on ‘Search’ Button.
9. The system validates the details.
10. The system successfully searches the available hotel details.

Extension in Alternate Flow 2:

1. Open the browser.
2. Enter the URL http://duniyaghumao.com
3. Click on login link.
4. Enter the Employee User name and Password.
5. Click on login button.
6. Click on appropriate link to view the booked rooms.
7. The system displays the corresponding hotel details.
8. Business Rules

| Business Rule Name | Business Rule Description | System action (if BR fails) |
| --- | --- | --- |
| BR\_Emp\_01 | Employee login credentials should be valid | Employee gets a popup to re-enter the credentials.(Try again) |
| BR\_Emp\_02 | Employee should be able to view the Hotel details added by the Admin. | Display message “ Hotel details page is not available” |
| BR\_Emp\_03 | Employee should not be able to update, add or delete the Hotel details on portal. | Display message ”Admin rights required” |
| BR\_Emp\_04 | Employee should not be able to modify the booking status details. | Display message “Admin rights required” |
| BR\_Emp\_05 | Employee should be able to search hotels by city. | Display message “No Hotels found” |
| BR\_Emp\_06 | Employee should be able to book the hotels. | Display message “error:404:try again later” |

1. Diagrams

Use Case Diagram



1. Scenarios

Success Scenarios

* Successful Employee login.
* Successful ‘Search of Hotel Rooms’.
* Successful ‘Book the Hotel Rooms’.
* Successful ‘view of Booking Status’.

Failure Scenarios

* Employee login authentication fails.
* Employee not able to book the Hotel Rooms.
* Employee not able to search the Hotel Rooms.
* Employee not able to view the booking status.

1. Issues

* What if the HTTP session not created.?
* What if the Employee is able to access the page of the application by simply entering the URL of that page address bar of the browser.
* What if Employee / Customer able to add or update or delete the Hotel details.

1. UI Specifications
2. Inter System Dependencies

**Module :**  Admin

**Use case name :** Functionalities of Admin.

**Impact :** If Employee didn’t book the hotel rooms, Admin can’t see any booked hotel room details.

1. Assumptions

* Application is up and running.
* Application is launching in all the browsers.
* Employee should have valid username and password
* Employee should know the valid URL of Hotel Booking Portal.
* The Employee should be authenticated with Hotel Website.

REVISION HISTORY OF THE WORK PRODUCT

<to be maintained by projects>

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