Use Case Specification

DMT/RM01/TMP

|  |  |
| --- | --- |
| Project Code | PRJ\_Airline Reservation System\_001 |
| Project Name | Airline Reservation System |

|  |  |  |
| --- | --- | --- |
| Prepared/Modified by | Role | Date of Preparation |
| Team 1 |  | June 2, 2018 |
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| Approved by | Role | Date of Approval |
|  |  |  |
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| Version Number | 1.0 |  |

<<Customer>> REVIEW HISTORY

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

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| Reviewed by |  |  |  |  |  |  |
| 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 ‘Airline Reservation System’ is restricted to the contents of this signed off use case.

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1. Use Case Name: Administrator Login to Airline Reservation System

Use Case ID: ARS.ADMIN.ADD\_001

Brief Description:

This Use Case describes the process by which Administrator logs into the Airline Reservation System and adds,deletes and updates new flight details. For Login administrator must be already registered on the system.

1. Actor(s):
2. Administrator.
3. Preconditions
4. Airline Reservation System website is available.
5. Administrator has a valid user id and password to login.

4.1 Basic Flow

Name: Successful login to the Airline Reservation Portal ,adding new flight details and updating or deleting flight details.

1. Administrator has entered the correct URL <http://ndafile:8081/AirlineReservationSystem> of Airline Reservation Website and Fly High home page is displayed.
2. Administrator clicks on the Authority login option and the Authority login page is displayed.
3. Administrator enters his/her user-id and password and clicks on the login button in the authority login page.
4. The system validates the user id and password combination with the database.
5. On successful login, the Admin Home Page is displayed which contains two options.
6. If admin clicks on Update and manage flight information option available on the Admin Home Page

navigates to the Available flight page having various options like ADD, DELETE, and UPDATE.

1. When admin clicks on ADD button, admin has to enter flight details like Flight Number, Departure From, Departure date, Departure Time,Arrival To, Arrival Date, Arrival Time, First Class Seats, First Class Seats Fare, Business Class Seats,Business Class Seats Fare.
2. Administrator clicks on add and “Flight details has added successfully” message will get displayed.
3. To delete flight details from page, Admin selects on radio button of particular flight details to be removed and clicks on DELETE.
4. The particular flight details gets deleted and appropriate message is displayed.
5. For updating flight details, Admin has to clicks on radio button of particular flight and edits the information regarding the details.
6. Admin clicks on UPDATE button and gets “Flight information is updated” is displayed.
7. When the admin clicks on Generate Various Reports option in the Admin Home Page, three options were displayed.
8. The Admin generates various reports like,

* View list of flights on a particular day, to a particular destination
* View Bookings of specific flight and
* View passengers list of specific flight.

1. The admin has successfully performed his functionalities.

Alternative Flows

* + 1. Alternate Flow 1: Successful login ,deleting flight details and adding or updating new flight details to the Airline Reservation Portal .

1. Administrator visits the Airline Reservation Portal URL <http://ndafile:8081/AirlineReservationSystem> using any standard browser.
2. Administrator clicks on the Authority login option and the Authority login page is displayed.
3. Administrator enters his/her user-id and password and clicks on the login button in the section of a home page given for administrator login.
4. The system validates the user id and password combination with the database.
5. On successful login, the Admin Home page is displayed which contains two options.
6. If administrator clicks on the Update and manage flight information option available on the Admin Home Page and it navigates to the Available flight page having various options like ADD, DELETE, and UPDATE.
7. Administrator clicks on delete flight details from page, Admin selects on radio button of particular flight details to be removed and clicks on DELETE.
8. The particular flight gets deleted and appropriate message is displayed.
9. When admin clicks on ADD button, admin has to enter the flight details like Flight Number, Departure From, Departure date, Departure Time, Arrival To, Arrival Date, Arrival Time, First Class Seats, First Class Seats Fare, Business Class Seats, Business Class Seats Fare.
10. Administrator clicks on add and “Flight details has added successfully” message will get displayed.
11. For updating flight details, Admin has to clicks on radio button of particular flight and edits the information regarding the details.
12. Admin clicks on UPDATE button and gets “Flight information is updated” is displayed.
13. When admin clicks on Generate Various Reports option in the Admin Home Page and three options were displayed.
14. The Admin generates various reports like,
15. View list of flights on a particular day, to a particular destination
16. View Bookings of specific flight and
17. View passengers list of specific flight.
18. The admin has successfully performed his functionalities.
    * 1. ALTERNATE FLOW 2: Open Webpage Through Bookmark
19. Administrator has saved the web page of Fly High Application as favoirates he clicks on that bookmark using any standard browser.
20. Administrator clicks on the Authority login option and the Authority login page is displayed.
21. Administrator enters his/her user-id and password and clicks on the login button in the section of a home page given for administrator login.
22. The system validates the user id and password combination with the database.
23. On successful login, the Admin Home page is displayed which contains two options.
24. If administrator clicks on the Update and manage flight information option available on the Admin Home Page it navigates to the Available flight page having various options like ADD, DELETE, and UPDATE.
25. When admin clicks on ADD button, admin has to enter flight details like Flight Number, Departure From, Departure date, Departure Time, Arrival To, Arrival Date, Arrival Time, First Class Seats, First Class Seats Fare, Business Class Seats,Business Class Seats Fare.
26. Administrator clicks on add and “Flight details has added successfully” message will get displayed.
27. To delete flight details from page, Admin selects on radio button of particular flight details to be removed and clicks on DELETE.
28. The particular flight gets deleted and appropriate message is displayed.
29. For updating flight details, Admin has to clicks on radio button of particular flight and edits the information regarding the details.
30. Admin clicks on UPDATE button and gets “Flight information is updated” is displayed.
31. When admin clicks on Generate Various Reports option in the Admin Home Page, three options were displayed.
32. The Admin generates various reports like,

* View list of flights on a particular day, to a particular destination
* View Bookings of specific flight and
* View passengers list of specific flight.

1. The admin has successfully performed his functionalities.

Exception Flow 1: Exceeded Login Attempts

1. Administrator visits the Airline Reservation Portal URL <http://ndafile:8081/AirlineReservationSystem> using any standard browser.
2. Administrator clicks on the Authority login option and the Authority login page is displayed.
3. Administrator enters his/her user-id and password and clicks on the login button in the section of a home page given for administrator login
4. The system validates the user id and password combination with the database.
5. If the authentication is unsuccessful, a login failure message is displayed.
6. The system validation fails due to invalid user credentials and no more login attempts remaining.
7. The system suspends the admin account.
8. The system informs the admin that his/her account has been suspended.

Exception Flow 2: Web Server Down

1. Administrator visits the Airline Reservation Portal URL <http://ndafile:8081/AirlineReservationSystem> using any standard browser.
2. The system displays an error message regarding web server unavailability problem.

Exception Flow 3: Database Connectivity Error

1. Administrator visits the Airline Reservation Portal URL <http://ndafile:8081/AirlineReservationSystem> using any standard browser
2. Administrator enters his/her user-id and password and clicks on the login button in the section of a home page given for administrator login
3. The system validates the admin id and password combination with the database.
4. Administrator is unable to login.
5. The system displays an error message regarding database connectivity problem.

Exception Flow 4: Network Connectivity Error

1. Administrator visits the Airline Reservation Portal URL <http://ndafile:8081/AirlineReservationSystem> using any standard browser
2. Administrator enters his/her user-id and password and clicks on the login button in the section of a home page given for administrator login
3. The system validates the user id and password combination with the database.
4. Administrator is unable to login.
5. The system displays an error message regarding network connectivity problem.

Exception Flow 5: Userid is excedding the limit

1. Administrator visits the Airline Reservation Portal URL <http://ndafile:8081/AirlineReservationSystem> using any standard browser
2. Administrator enters user-id more than 10 character
3. Administrator enters password and clicks on the login button.
4. The system validates the user id and password.
5. Administrator geting error message for invalid Username

Exception Flow 6: Password is below the limit

1. Administrator visits the Airline Reservation Portal URL <http://ndafile:8081/AirlineReservationSystem> using any standard browser.
2. Administrator enters user-id
3. Administrator enters password below 6 characters
4. clicks on the login button.
5. The system validates the user id and password.
6. Administrator geting error message for invalid password
7. Post Conditions

| Flow Name | Post Condition |
| --- | --- |
| Successful Administrator login to the Airline Reservation portal and adding,updating or deleting flight details. | Admin will be logged in to the Fly High page successfully, system should navigate admin to the Admin home Page and after that admin can add flight details and performs all the administrator functionalities. |
| Re-entering user-id and password | Admin will be logged in to the Fly High page successfully, system should navigate admin to the Admin home Page and after that admin can add flight details and performs all the administrator functionalities. |
| Open webpage through Bookmark | Admin will be logged in to the Fly High page successfully, system should navigate admin to the Admin home Page and after that admin can add flight details and performs all the functionalities. |
| Exceeded Login Attempts | The system should suspend the user account and should inform the admin that his/her account has been suspended |
| Web Server Down | The system should display an error message to the admin regarding web server unavailability problem |
| Database Connectivity Error | The system should display an error message to the admin regarding the database connectivity problem |
| Network Connectivity Error | The system should display an error message to the admin regarding the network connectivity problem |
| Userid is exceeded by the limits | The system should display an error message to the admin regarding invalid user-id. |
| Password is below the limit | The system should display an error message to the admin regarding invalid password. |

1. Special Requirements

Performance

* 1. Application should responce within 6 sec. for all the request by the admin.
  2. Navigating from one page to another should be fast and not take more than 10 seconds.

Availability

* 1. Application is up and running 24\*7.

User Interface

* 1. The letters on Menus shall be bold
  2. The active links shoul be displayed in red color
  3. The visisted links should be displayed in purpule color
  4. The Unvisited links should be displayed in blue
  5. The logout and back button should be available on every page of the application
  6. Look and feel and color of application should be proper.
  7. In case of Field level validation error messages should be displayed in red color.

Security

1. The system shall display the letters of Password in a masked format when they are entered by the administratror.
2. User Session should get expire if user is inactive for 10 mins.
3. Extension Points:

Extension in Basic Flow :

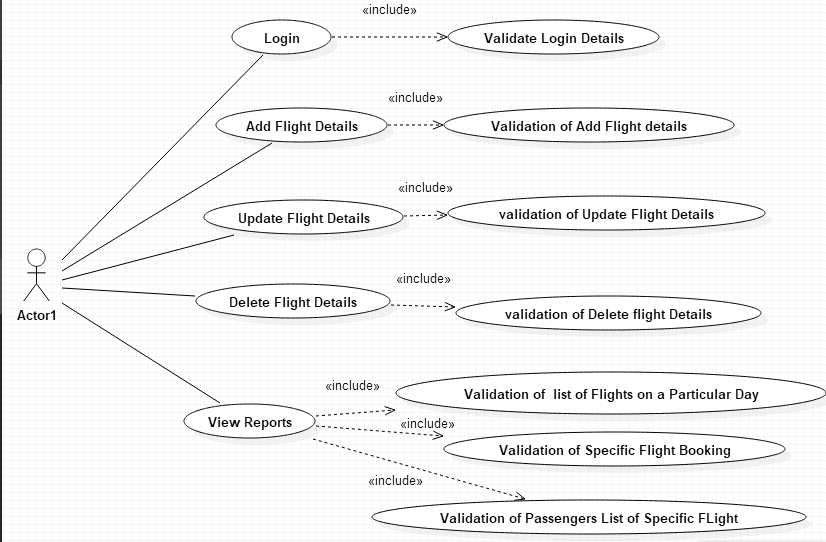
In step 5, if the authentication fails :

1. The system prompts the admin to re-enter the credentials.
2. Admin enters the valid credentials and clicks on login button.
3. The system takes admin to Basic flow step 5.
4. Business Rules

| Business Rule Name | Business Rule Description | System action (if BR fails) |
| --- | --- | --- |
| BR01 | Administrator should be valid | Admin is prompted to re-enter the login credentials |
| BR02 | User should be able to view the flight details added by the Administrator. | Display notification message “Flight details not available” |
| BR03 | User should not be able to update or delete the flight details on portal. | Display message “ Admin authentication is needed” |

1. Diagrams

Use Case Diagram for User



1. Scenario

Success Scenarios

* Successful admin login to the Airline Reservation System.
* Login to the Fly High application with reattempt.

Failure Scenarios

* Exceeded Login Attempts
* Web Server Down
* Database Connectivity Error
* Network Connectivity Error
* Adminisatration login authentication fails
* HTTP session not created

1. Issues

1. What if the HTTP session not created.

2. What if the user is able to access the page of the application by simply entering the URL of that

page on the address bar of the browser.

1. UI Specifications

<http://ndafile:8081/AirlineReservationSystem>

1. Inter System Dependencies

Module: Administrator

Use case name: Administrator login to Airline Reservation System

Impact: If Administrator has not added or updated flight details, the user will not be able to see the available flights details.

1. Assumptions
2. Application is valid and up running
3. Application is launcing in all the browser
4. Administrator should have valid username and password

REVISION HISTORY OF THE WORK PRODUCT

<to be maintained by projects>

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