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Expt:2 Use Case Diagram

Description:

Table 1: List of actors

Actor	Description
Customer	Can book tickets after registration
Admin	Add, Delete and View booked flights

Table 2: List of Use Cases

#	Use Case	Description
UC1	Register	Allows to register with the website and create an account for all further transactions.
UC2	Login	Allows a registered user and admin to login his account by authenticating username and password.
UC3	Search flights	Allows the enrolled user to view flight information that matches input criteria.
UC4	Book flights	User can purchase seats for an airplane flight.
UC5	Make Payment	User can pay for the booked tickets.
UC6	Cancel Ticket	User is able to cancel tickets that he has earlier reserved.
UC7	Logout	Users and admin can logout from the system
UC8	Add flight	Admin is able to add flight schedule details.
UC9	Cancel Flight	Admin is able to cancel a flight schedule details.
UC10	View booked Tickets	Admin has ability to view list of booked tickets for a flight.

Table 2: List of Use Cases

#	Use Case	Description
UC11	Add Aircrafts	Admin can add new aircrafts in airlines

Table 3: UC1 – Register

Use Case	UC1. Register
Description	Allows a customer to register to the system
Actors	• Customer
Steps	1. User types his Full Name 2. User types his Mobile Number 3. User types his Address. 4. User types in user name 5. User types in password 6. User types in confirm password 7. User clicks on the 'Submit' button 8. IF successful THEN show Login Page ELSE display error

Table 4: UC2 - Login

Use Case	UC2. login
Description	Allows a member to login to the system using his username and password
Actors	• Admin • Customer
Steps	1. User types in username 2. User types in password 3. User clicks on the 'Login' button IF successful THEN show home page ELSE display error

Table 5: UC3 – Search Flights

Use Case	UC3. Search Flights
Description	Allows the enrolled customer to view flight information that matches input criteria.
Actors	• Customer
Steps	1.User types in Origin

	2. User types in Destination 3. User types in Departure Date 4. User types in no. of passengers 5. User types in Class (Economy, Business) 6.User clicks on the 'Search Available Flights' button 7.IF successful THEN website shows available flights ELSE display 'No Flights Available'

Table 6: UC4 – Book Flight

Use Case	UC4. Book Flight
Description	Customer can purchase seats for an airplane flight.
Assumptions	1. Customer is logged in 2. Flight is available
Actors	• Customer
Steps	1.User types in Origin 2. User types in Destination 3. User types in Departure Date 4. User types in no. of passengers 5. User types in Class (Economy, Business) 6.User clicks on the 'Book Flights' button 7.IF successful THEN website display 'Ticket booked' ELSE display 'No Flights Available'

Table 6: UC5 – Make Payment

Use Case	UC5. Make Payment
Description	Customer can pay for the booked tickets.
Assumptions	1. Customer is logged in
Actors	• Customer
Steps	1.User makes payment by choosing payment options (Pay by card/ Net banking). 2.User clicks on the 'Pay' button 7.IF successful THEN website provides Customer PNR (Passenger Name Record) for further transactions ELSE display 'Invalid'

Table 7: UC6 – Cancel Ticket

Use Case	UC6. Cancel Ticket
Description	Customer is able to cancel tickets that he has earlier reserved.
Assumptions	1. User is logged in
Actors	• Customer
Steps	1. User logs in 2. User searches for 'Cancel Booked Tickets section' 3. User types PNR (Passenger Name Record) number. 4. User clicks 'Cancel Ticket' button. 5. IF successful THEN website displays a message of cancellation of ticket ELSE display 'Invalid PNR'

Table 8: UC7 - Logout

Use Case	UC7. Logout
Description	Allows a user to Logout
Actors	• Admin • Customer
Steps	1. User clicks on the 'Logout' button 2. IF successful THEN show page navigates to Home Page.

Table 9: UC8 – Add Flight

Use Case	UC8. Add Flight
Description	Admin is able to add flight schedule details.
Assumptions	1. Admin is logged in
Actors	• Admin
Steps	1. Admin logs in 2. Admin navigates to dashboard 3. Admin selects 'Add Flight Schedule Details' 4. Admin types Flight Number 5. Admin types Origin 6. Admin types Destination

	7. Admin types Departure Date 8. Admin types Arrival Date 9. Admin types Departure Time 10. Admin types Arrival Time 11. Admin types no. of seats available in Economy class 12. Admin types no. of seats available in Business class 13. Admin types Ticket price of Economy Class 14. Admin types Ticket price of Business Class 15. Admin types Jet Id 16. Admin clicks 'Submit ' button 17. IF successful THEN website displays 'Flight schedule is inserted' ELSE display 'Invalid Entry'

Table 10: UC9 – Cancel Flight

Use Case	UC9. Cancel Flight
Description	Admin is able to cancel a flight schedule details.
Assumptions	1. Admin is logged in
Actors	• Admin
Steps	1. Admin logs in. 2. Admin navigates to dashboard. 3. Admin selects 'Delete Flight Schedule Details' 4. Admin types Flight number 5. Admin types Departure Date 6. Admin clicks 'Delete' button 7. IF successful THEN website displays message of Flight Schedule being deleted ELSE display 'Invalid Flight No./Departure date, please enter again'

Table 11: UC10 – View Booked Tickets

Use Case	UC10. View Booked Tickets
Description	Admin has ability to view list of booked tickets for a flight.
Assumptions	1. Admin is logged in
Actors	• Admin
Steps	1. Admin logs in.

	2. Admin navigates to dashboard.
	3. Admin selects 'View List Of Booked Tickets for a Flight'
	4. Admin types Flight number
	5. Admin types Departure Date
	6. Admin clicks 'Submit' button
	7. IF successful THEN website displays list of all passengers you have booked tickets ELSE display 'No booked ticket information is available'.

Table 12: UC11 – Add Aircrafts

Use Case	UC11. Add Aircrafts
Description	Admin can add new aircrafts in airlines
Assumptions	1. Admin is logged in
Actors	• Admin
Steps	1. Admin logs in. 2. Admin navigates to dashboard. 3. Admin selects 'Add Aircraft Details' 4. Admin types Jet ID 5. Admin types Jet Type/Model 6. Admin types total capacity of the jet 7. Admin clicks 'Submit' button. 8. IF successful THEN website displays Flight added successfully ELSE display 'Invalid Data'.

Table 13: Include for use case Book Flight

Use Case Extension	Make Payment **includes** UC4. Book Flight
Description	User can pay using Payment option for the booked flight.
Steps	User can click on 'Make Payment' for further transactions.

Table 14: Extensions for use case Make Payment

Use Case Extension	Pay by card **extends**UC6. Make Payment
Description	User can pay using credit/ debit cards
Steps	User clicks on 'Pay by card' button for further transaction.

Table 15: Extensions for use case Make Payment

Use Case Extension	Net Banking **extends**UC6. Make Payment
Description	User can pay using Net Banking option
Steps	User clicks on 'Net banking' button for further transaction.

Output:

Use Case Diagram: Paste Use Case Diagram here.

Airline Reservation System

Customer

Admin

Register

Search Flights

Book Flight

Cancel Ticket

Login

Logout

Add Flight

Cancel Flight

View Booked Tickets

Add Aircrafts

Make Payment

<<include>>

<<extend>>

<<extend>>

Pay by card

Net Banking