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| Test Case | Test Case Description | Actor | Precondition | Expected Result | Steps | Result |
| 1. | Booking the cheapest flight with flights in the system. | User | To be logged in & to have flights in the system. | A flight has been booked and a ticket linked to the user. | 1. The user presses “Cheapest flights”  2. System displays a list of ten cheapest flights.  3. User selects a flight from the list.  4. User presses “Book”.  5. The system displays a list of available seats.  6. The user chooses a seat.  7. The user presses “Confirm”. | A flight has been booked and a ticket linked to the user. |
| 2. | Booking a flight that is today. | User | To be logged in & to have flights in the system. | A flight has been booked and a ticket linked to the user. | 1. The user presses “Todays flights  2. System displays a list of flights that are today.  3. User selects a flight from the list.  4. User presses “Book”.  5. The system displays a list of available seats.  6. The user chooses a seat.  7. The user presses “Confirm”. | A flight has been booked and a ticket linked to the user. |
| 3. | Booking a flight that has a certain origin, destination, date of departure and arrival. | User | To be logged in & to have flights in the system. | A flight has been booked and a ticket linked to the user. | 1. The user selects an origin, destination, date of departure and date of arrival.  2. The user presses the button “Search”.  3. User selects a flight from the list.  4. User presses “Book”.  5. The system displays a list of available seats.  6. The user chooses a seat.  7. The user presses “Confirm”. | A flight has been booked and a ticket linked to the user. |
| 4. | Booking the cheapest flights while there are no flights. | User | To be logged in & to not have flights in the system | The system displays a message “no flights” | 1. The user presses “Cheapest flights” | The system displays a message “no flights” |
| 5. | Booking a flight from today while there are no flights. | User | To be logged in & to not have flights in the system | The system displays a message “no flights for today” | 1. The user presses “Today’s flights” | The system displays a message “no flights for today” |
| 6. | Booking a flight that has a certain origin, destination, date of departure and arrival while there are no flights. | User | To be logged in & to not have flights in the system | The system displays a message “no flights” | 1. The user selects an origin, destination, date of departure and date of arrival.  2. The user presses the button “Search”. | The system displays a message “no flights” |
| 7. | Booking a flight that has a certain origin, destination, date of departure arrival while not selecting the date of departure and date of arrival. | User | To be logged in. | The system displays a message “Please use the date choosers to select date” | 2. The user presses “Search” | The system displays a message “Please use the date choosers to select date” |
| 8. | Booking a flight that has been already booked. | User | To be logged in & be booking a selected flight. | The system displays the message “You already booked a ticket for this flight!” | 1. The system displays a list of available seats.  2. The user chooses a seat.  3. The user presses “Confirm”. | The system displays the message “You already booked a ticket for this flight!” |
| 9. | Booking a flight that has been already deleted. | User | To be logged in & be booking a selected flight that has been deleted from the system. | The system displays the message “Flight was removed by the administrator!” | 1. The system displays a list of available seats.  2. The user chooses a seat.  3. The user presses “Confirm”. | The system displays the message “Flight was removed by the administrator!” |
| 10 | Booking a flight that has not been selected. | User | To be logged in & having searched for flights. | The system displays the message “Please select a flight to book!” | 1. The user presses “Cheapest flights”  2. System displays a list of ten cheapest flights.  3. User presses “Book”. | The system displays the message “Please select a flight to book!” |
| 11. | Removing a booked ticket. | User | To be logged in & have a flight booked. | Ticket removed. | 1. The user presses “My profile” and then “View profile”  2. User selects a ticket from “My flight history”  3. User presses “Cancel ticket”  4. The system displays a message “Are you sure you want to cancel the ticket?”  5. The user presses “Yes” | The ticket has been removed. |
| 12. | Removing a ticket while not selecting one. | User | To be logged in & have a flight booked. | The system displays the message “Please select a flight to remove!” | 1. The user presses “My profile” and then “View profile”  2. User presses “Cancel ticket” | The system displays the message “Please select a flight to remove!” |
| 13. | Adding a flight. | Administrator | No precondition | The system displays the message “Successfully added” and a flight is added. | 1. Administrator chooses origin city, destination city, departure date, arrival date, departure time, arrival time and types in the price.  2. Administrator validates his choice. | The system displays the message “Successfully added” and a flight is added. |
| 14. | Removing a flight without searching. | Administrator | Having flights in the system | System displays the message “Successfully removed” and the flight is removed. | 1. System displays a list of all flights;  2. Administrator selects the specific flight to remove;  3. Administrator validates his choice. | System displays the message “Successfully removed” and the flight is removed. |
| 15. | Removing a flight that has been searched for. | Administrator | Having flights in the system | System displays the message “Successfully removed”. | 1. Administrator types in the flightID.  2. System displays the flight with that flightID.  3. Administrator selects the flight.  4. Administrator validates his choice. | System displays the message “Successfully removed”. |
| 16. | Adding a flight when the destination city is the same as the arrival city. | Administrator | No precondition | System displays the message “Origin and destination must have different values! Make sure the price field is completed as well”. | 1. Administrator chooses origin city, destination city, departure date, arrival date, departure time, arrival time and types in the price.  2. Administrator validates his choice. | System displays the message “Origin and destination must have different values! Make sure the price field is completed as well”. |
| 17. | Adding a flight when the departure date is before the current date. | Administrator | No precondition | System displays the message “Departure date should not be before today”. | 1. Administrator chooses origin city, destination city, departure date, arrival date, departure time, arrival time and types in the price.  2. Administrator validates his choice. | System displays the message “Departure date should not be before today”. |
| 18. | Adding a flight when the arrival date is before the departure date. | Administrator | No precondition | System displays the message “Arrival date cannot be before the departure date!”. | 1. Administrator chooses origin city, destination city, departure date, arrival date, departure time, arrival time and types in the price.  2. Administrator validates his choice. | System displays the message “Arrival date cannot be before the departure date!”. |
| 19. | Adding a flight when there is no arrival date or departure date chosen. | Administrator | No precondition | System displays the message “Please use the date choosers to select the date”. | 1. Administrator chooses origin city, destination city, departure date, arrival date, departure time, arrival time and types in the price.  2. Administrator validates his choice. | System displays the message “Please use the date choosers to select the date”. |
| 20. | Adding a flight when departure time and arrival date coincide, while the departure date and arrival date coincide. | Administrator | No precondition | System displays the message “Arrival time cannot have the same value as the departure time!”. | 1. Administrator chooses origin city, destination city, departure date, arrival date, departure time, arrival time and types in the price.  2. Administrator validates his choice. | System displays the message “Arrival time cannot have the same value as the departure time!”. |
| 21. | Adding a flight when arrival time is before the departure time, while the departure date and arrival date coincide. | Administrator | No precondition | System displays the message “Arrival time cannot be before the departure time!”. | 1. Administrator chooses origin city, destination city, departure date, arrival date, departure time, arrival time and types in the price.  2. Administrator validates his choice. | System displays the message “Arrival time cannot be before the departure time!”. |
| 22. | Adding a flight when the introduced price value is not made exclusively of numbers. | Administrator | No precondition | System displays the message “Price has to be a number! No other characters are allowed.”. | 1. Administrator chooses origin city, destination city, departure date, arrival date, departure time, arrival time and types in the price.  2. Administrator validates his choice. | System displays the message “Price has to be a number! No other characters are allowed.”. |
| 23. | Adding a flight that is already in the system. | Administrator | No precondition | System displays the message “This flight already exists in the system.”. | 1. Administrator chooses origin city, destination city, departure date, arrival date, departure time, arrival time and types in the price.  2. Administrator validates his choice. | System displays the message “This flight already exists in the system.”. |
| 24. | Removing a flight while not selecting one. | Administrator | Having flights in the system | System displays the message “Please select a flight to delete!”. | 1. Administrator types in the flightID.  2. System displays the flight with that flightID.  3. Administrator validates his choice. | System displays the message “Please select a flight to delete!”. |
| 25. | Removing a flight that cannot be found. | Administrator | Having flights in the system | System displays the message “No flight with the id has been found”. | 1. Administrator types in the flightID. | System displays the message “No flight with the id has been found”. |
| 26. | Removing a found flight while not selecting one. | Administrator | Having flights in the system | System displays the message “Please select a flight to delete!”. | 1. Administrator types in the flightID.  2. System displays the flight with that flightID.  3. Administrator validates his choice. | System displays the message “Please select a flight to delete!”. |