

Test Cases

1. Feature: Search Flights

This feature verifies that users (customers, admins, and planning managers) can search for available flights.

Scenario: Successful Flight Search

Given the user is on the flight search page

When the user enters valid departure and arrival locations and selects travel dates

Then the system displays a list of available flights matching the criteria

Scenario: No Flights Available

Given the user is on the flight search page

When the user enters locations and dates for which no flights exist

Then the system displays a message indicating that no flights are available

2. Feature: Make Booking

This feature verifies that a flight can be successfully booked once selected.

Scenario: Successful Booking

Given the user has selected a flight and entered valid passenger details

When the user proceeds to payment and completes the transaction

Then the system confirms the booking and issues an e-ticket

Scenario: Booking with Incomplete Passenger Details

Given the user has selected a flight

When the user attempts to proceed without entering all required passenger information

Then the system prompts the user to complete all mandatory fields

3. Feature: Process Payment

This feature verifies the payment process during the booking.

Scenario: Successful Payment

Given the user is on the payment page with valid booking details

When the user enters valid payment information and submits

Then the system processes the payment and confirms the transaction

Scenario: Payment Failure Due to Invalid Card Details

Given the user is on the payment page

When the user enters invalid card details

Then the system declines the payment and prompts the user to enter valid payment information

4. Feature: Manage Booking

This feature verifies that users can update or cancel their bookings.

Scenario: Update Booking Details

Given the user is logged in and has an existing booking

When the user updates passenger information

Then the system saves the changes and updates the booking accordingly

Scenario: Cancel Booking

Given the user is logged in and has an existing booking

When the user chooses to cancel the booking

Then the system cancels the booking and processes a refund if applicable

5. Feature: View Bookings

This feature verifies that users can view their booking history and upcoming bookings.

Scenario: View Booking History

Given the user is logged in

When the user navigates to the 'My Bookings' section

Then the system displays a list of past and upcoming bookings

6. Feature: View Sales Reports

This feature verifies that sales managers, admins, and planning managers can generate sales reports.

Scenario: Generate Sales Report for a Specific Period

Given the sales manager is logged in

When the sales manager selects a date range and requests a sales report

Then the system generates and displays the sales report for the selected period

7. Feature: Add Flight

This feature verifies that planning managers and admins can add new flights to the system.

Scenario: Successfully Add a Flight

Given the planning manager is logged in

When the planning manager enters valid flight details and submits

Then the system adds the new flight to the database

8. Feature: Update Flight

This feature verifies that flight details can be updated by planning managers and admins.

Scenario: Successfully Update Flight Details

Given the planning manager is logged in and a flight exists

When the planning manager edits the flight details and submits

Then the system updates the flight information in the database

9. Feature: Remove Flight

This feature verifies that planning managers and admins can remove a flight from the system.

Scenario: Successfully Remove a Flight

Given the planning manager is logged in and a flight exists

When the planning manager chooses to remove the flight

Then the system deletes the flight from the database and confirms the removal

10. Feature: Login

This feature verifies the user login functionality.

Scenario: Successful Login

Given the user is on the login page

When the user enters valid credentials

Then the system logs the user in and redirects to the dashboard

Scenario: Login with Invalid Credentials

Given the user is on the login page

When the user enters invalid credentials

Then the system displays an error message indicating invalid login details

11. Feature: Register

This feature verifies that users can create new accounts.

Scenario: Successful Registration

Given the user is on the registration page

When the user enters valid information and submits

Then the system creates a new account and redirects the user to the login page

Scenario: Registration with Existing Email

Given the user is on the registration page
When the user enters an email that already exists
Then the system displays an error message indicating that the email is already in use

12. Feature: Manage Account

This feature verifies that users can update their account details.

Scenario: Successful Account Update

Given the user is logged in
When the user updates account information such as name or contact details
Then the system saves the changes and displays an updated account profile

13. Feature: Reset Password

This feature verifies the password reset functionality.

Scenario: Successful Password Reset

Given the user is on the reset password page
When the user enters a valid email address and submits the request
Then the system sends a password reset link to the user's email

Scenario: Password Reset with Invalid Email

Given the user is on the reset password page
When the user enters an email address not associated with any account
Then the system displays an error message indicating that the email was not found

14. Feature: Generate E-Ticket

This feature verifies that an e-ticket is generated once a booking is confirmed.

Scenario: Successful E-Ticket Generation

Given the booking is confirmed and payment is successful

When the system finalizes the booking

Then the system generates an e-ticket and displays it to the user

15. Feature: Rebook Flight

This feature verifies that users can rebook a flight if they need to modify an existing reservation.

Scenario: Successful Rebooking

Given the user is logged in and has an existing booking

When the user selects the option to rebook a flight and provides new details

Then the system processes the rebooking and updates the booking record accordingly

16. Feature: Request Refund

This feature verifies that users can request a refund for a cancelled booking.

Scenario: Successful Refund Request

Given the user is logged in and has cancelled a booking

When the user submits a refund request

Then the system records the refund request and displays a confirmation message