

Login to System

Actor: Customer/Agent/Admin

Scenario:

The person opens the LoginGUI and enters username and password. They click Login, which triggers authentication against the person table. The system checks credentials and opens the appropriate dashboard.

Logout from System

Actor: Customer/Agent/Admin

Scenario:

The person clicks Logout in their dashboard. The system confirms and disconnects from the database. The login screen reappears.

Search Available Flights

Actor: Customer

Scenario:

The customer enters departure, destination, and date in search fields. They click Search, and the FlightController retrieves flights from the database. Results display in a table.

Book a Flight

Actor: Customer

Scenario:

The customer selects a flight and clicks Book. They enter a seat number and optional promo code. The PromotionManager validates the code. The customer chooses payment method (Credit Card or PayPal). The BookingController creates a new booking and updates flight seats.

View My Bookings

Actor: Customer

Scenario:

The customer navigates to My Bookings tab. The BookingController retrieves their bookings from the database and displays them in a table.

Cancel My Booking

Actor: Customer

Scenario:

The customer selects a booking and clicks Cancel. The BookingController removes the booking and increments available seats on the flight.

Update My Profile

Actor: Customer

Scenario:

The customer edits their profile information and clicks Update. The CustomerController updates their record in the database.

Subscribe to Promotions

Actor: Customer

Scenario:

The customer clicks Subscribe to Promotions. The PromotionManager adds them to the observer list for promotion notifications.

View Current Promotions

Actor: Customer

Scenario:

The customer clicks View Promotions. The PromotionManager retrieves active promotions from the database and displays them.

Make Payment

Actor: Customer

Scenario:

During booking, the customer selects payment method. The system collects payment details via dialog and processes the payment using PaymentStrategy.

Create Customer Profile

Actor: Flight Agent

Scenario:

The agent clicks Add Customer and enters customer details. The CustomerController creates a new customer in the database.

View Customer Profile

Actor: Flight Agent

Scenario:

The agent searches for customers. The CustomerController retrieves matching customers from the database and displays them.

Update Customer Profile

Actor: Flight Agent

Scenario:

The agent selects a customer, edits their information, and saves. The CustomerController updates the customer in the database.

Create Booking for Customer

Actor: Flight Agent

Scenario:

The agent selects a customer and flight, enters seat number, and confirms. The BookingController creates the booking.

View Flight Schedule

Actor: Flight Agent

Scenario:

The agent views the flight table showing all available flights from the database.

View Customer Bookings

Actor: Flight Agent

Scenario:

The agent views the booking table showing all bookings in the system.

Edit Customer Booking

Actor: Flight Agent

Scenario:

The agent selects a booking, changes flight or seat, and saves. The BookingController updates the booking.

Cancel Customer Booking

Actor: Flight Agent

Scenario:

The agent selects a booking and cancels it. The BookingController removes the booking and updates flight seats.

Add Flight

Actor: System Administrator

Scenario:

The admin enters flight details and saves. The DatabaseManager inserts the flight into the database.

Update Flight

Actor: System Administrator

Scenario:

The admin edits flight information and saves. The DatabaseManager updates the flight in the database.

Remove Flight

Actor: System Administrator

Scenario:

The admin selects a flight and deletes it. The DatabaseManager removes the flight from the database.

Manage Routes

Actor: System Administrator

Scenario:

The admin manages flight routes in the database.

Manage Aircraft

Actor: System Administrator

Scenario:

The admin manages aircraft and airline information.

Manage Promotions

Actor: System Administrator

Scenario:

The admin creates and manages promotional offers in the database.